

How to find your Safety Data Sheet

1. Click the button with your country and language
2. Your SDS will open automatically

A

Aruba
Dutch

Australia
English

Austria
German

B

Belgium
Dutch

Belgium
French

Bosnia and Herzegovina
Serbian

Brazil
Portuguese

Bulgaria
Bulgarian

C

Canada
English

Canada
French

Chile
Spanish

China
Chinese

Croatia
Croatian

Czech Republic
Czech

D

Denmark
Danish

E

Estonia
Estonian

F

Finland
Finnish

France
French

G

Germany
German

Greece
Greek

H

Hong Kong
English

Hungary
Hungarian

I

Iceland
Icelandic

India
English

Indonesia
Indonesian

Ireland
English

Israel
English

Italy
Italian

J

Japan
Japanese

K

Kuwait
English

M

Macedonia
Macedonian

Malaysia
Malay

Malta
English

Moldova
Romanian

Montenegro
Serbian

N

Netherlands
Dutch

New Zealand
English

Norway
Norwegian

P

Poland
Polish

Q

Qatar
English

R

Romania
Romanian

S

Saudi Arabia
English

Serbia
Serbian

Singapore
English

Slovakia
Slovak

Slovenia
Slovenian

South Korea
Korean

Spain
Spanish

Sweden
Swedish

Switzerland
German

T

Taiwan
Chinese

Turkey
Turkish

U

United Arab Emirates
English

United Kingdom
English

United States
English

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for the UNITED ARAB EMIRATES according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: AE-en

SICHERHEITSDATENBLATT

iT.33 laundry booster pro

ABSCHNITT 1: BEZEICHNUNG DES STOFFS BEZIEHUNGSWEISE DES GEMISCHS UND DES UNTERNEHMENS

1.1. Produktidentifikator

Handelsname:

iT.33 laundry booster pro

Eindeutiger Rezepturidentifikator (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen des Stoffs oder Gemischs:

Wasch- und Reinigungsmittel (einschließlich Produkte auf Lösungsmittelbasis)
Nur für gewerbliche Anwender.

Verwendungen, von denen abgeraten wird:

Keine bekannt.

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Firmenname und Adresse:

Hygeniq B.V.

Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Email:

info@hygeniq.com

Überarbeitet am:

14.08.2025

SDB Version:

2.0

Datum der letzten Ausgabe:

28.07.2025 (1.0)

1.4. Notrufnummer

Vergiftungsinformationszentrale (VIZ): +43 (0)1 406 43 43 (von 0 bis 24 Uhr)

Siehe auch Abschnitt 4 zu Erste-Hilfe-Maßnahmen

ABSCHNITT 2: MÖGLICHE GEFAHREN

Eingestuft gemäß der Verordnung (EG) Nr. 1272/2008 (CLP).

2.1. Einstufung des Stoffs oder Gemischs

Met. Corr. 1; H290, Kann gegenüber Metallen korrosiv sein.

Skin Corr. 1A; H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Eye Dam. 1; H318, Verursacht schwere Augenschäden.

2.2. Kennzeichnungselemente

Gefahrenpiktogramme:



Signalwort:

Gefahr

Gefahrenhinweise:

Kann gegenüber Metallen korrosiv sein. (H290)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden. (H314)

Sicherheitshinweise:

▼ Allgemeines:

Nicht zutreffend.

Prävention:

Dampf/Nebel nicht einatmen. (P260)

Augenschutz/Schutzhandschuhe/Schutzkleidung tragen. (P280)

▼ Reaktion:

BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen oder duschen. (P303+P361+P353)

BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen. (P305+P351+P338)

Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen. (P310)

Lagerung:

In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren. (P406)

Entsorgung:

Inhalt/Behälter gemäß lokalen Vorschriften zuführen. (P501)

Enthält:

Kaliumhydroxid;Ätzkali

Natriumhydroxid;Ätznatron

Andere Kennzeichnungen:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Sonstige Gefahren

Anderes:

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

Dieses Produkt enthält keine Stoffe, die gemäß den Kriterien der Delegierten Verordnung (EU) 2017/2100 der Kommission oder der Verordnung (EU) 2023/707 der Kommission als endokrine Disruptoren gelten.

ABSCHNITT 3: ZUSAMMENSETZUNG/ANGABEN ZU BESTANDTEILEN

3.1. Stoffe

Nicht zutreffend. Dieses Produkt ist ein Gemisch.

3.2. ▼ Gemische

Produkt / Substanz	Identifikatoren	% w/w	Einstufung	Anm.
Kaliumhydroxid;Ätzkali	CAS-Nr.: 1310-58-3 EG-Nr.: 215-181-3 REACH: Indexnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
Natriumhydroxid;Ätznatron	CAS-Nr.: 1310-73-2 EG-Nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Indexnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Vollständiger Text der H-Sätze - siehe Abschnitt 16. Die Grenzwerte für die Exposition am Arbeitsplatz sind, wenn verfügbar, in Abschnitt 8 wiedergegeben.

Weitere Angaben

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ABSCHNITT 4: ERSTE-HILFE-MASSNAHMEN

4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Hinweise:

Bei Unfällen: Arzt oder Erste-Hilfe-Raum aufsuchen - das Etikett oder dieses Sicherheitsdatenblatt mitbringen.
Bei anhaltenden Symptomen oder Zweifel über den Zustand des Geschädigten ist ärztliche Hilfe aufzusuchen.
Einem Bewusstlosen nie Wasser o.Ä. verabreichen.

Nach Einatmen:

Bei Atembeschwerden oder Reizung der Atemwege: Betroffenen an die frische Luft bringen und beaufsichtigen.

Nach Hautkontakt:

Betroffenen Bereich über einen längeren Zeitraum spülen – mindestens 30 Minuten. Eventuell wird ein Ausspülen über mehrere Stunden erforderlich. Angenehme Wassertemperatur nutzen (20 bis 30 °C).
Giftinformationsstelle/Arzt/Krankenhaus für nähere Beratung zur Nachverfolgung und Behandlung kontaktieren.
Verunreinigte Kleidung und Schuhe entfernen. Haut, die mit dem Material in Kontakt gekommen ist, ist gründlich mit Wasser und Seife zu waschen. Es kann ein Hautreinigungsmittel verwendet werden. KEIN Lösungsmittel oder Verdünner verwenden.
Bei Hautreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Nach Augenkontakt:

Bei Kontakt mit den Augen: Augen sofort mit viel Wasser (20-30 °C) mindestens 30 Minuten lang spülen, bis die Reizung aufhört. Ggf. Kontaktlinsen herausnehmen. Unter dem oberen und unteren Lid spülen. Sofort Arzt aufsuchen. Während des Transports weiter spülen.

Nach Verschlucken:

Bei Einnahme: mit einem Arzt Kontakt. Dem Geschädigten Wasser zu trinken geben, wenn er bei Bewusstsein ist. KEIN Erbrechen erzwingen, es sei denn, der Arzt empfiehlt es. Kopf nach unten halten, um zu vermeiden, dass Erbrochenes zurück in Mund und Hals läuft. Schock vermeiden und den Geschädigten warm und ruhig halten.

Wenn die Atmung aufhört, künstlich beatmen. Bei Bewusstlosigkeit den Geschädigten in die stabile Seitenlage bringen. Krankenwagen rufen.

Verbrennung:

Nicht zutreffend.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

BEI Exposition oder falls betroffen:

Sofort ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Hinweise für den Arzt

Dieses Sicherheitsdatenblatt oder das Etikett des Produktes mitbringen.

ABSCHNITT 5: MASSNAHMEN ZUR BRANDBEKÄMPFUNG

5.1. Löschmittel

Nicht zutreffend.

5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Bei Feuer bildet sich dichter Rauch. Abbauproduktexposition kann eine gesundheitliche Gefahr bedeuten. Geschlossene, dem Feuer ausgesetzte Behälter sind mit Wasser zu kühlen. Löschwasser nicht in Kanalisation und Fließgewässer gelangen lassen.

Wenn das Produkt hohen Temperaturen ausgesetzt wird, beispielsweise bei Feuer, kann es zu gefährlichen Abbauprodukten kommen. Dabei handelt es sich um:

Einige Metalloxide

5.3. Hinweise für die Brandbekämpfung

Normale Einsatzbekleidung und voller Atemschutz. Wenden Sie sich an die Vergiftungsinformationszentrale (VIZ): +43 (0)1 406 43 43 (von 0 bis 24 Uhr), um weitere Ratschläge zu erhalten.

ABSCHNITT 6: MASSNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Direkten Kontakt mit dem ausgetretenen Stoff vermeiden.

Sorgen Sie für ausreichende Belüftung, insbesondere in geschlossenen Räumen.

Kontaminierte Bereiche können rutschig sein.

6.2. Umweltschutzmaßnahmen

Einleitung in Seen, Bäche, Kanalisationen usw. vermeiden.

Halten Sie Unbefugte von dem verschütteten Produkt fern.

6.3. Methoden und Material für Rückhaltung und Reinigung

Verschüttetes Material wird mit nicht brennbaren absorbierenden Materialien wie etwa Sand, Erde, Vermiculit und Diatomeenerde eingedämmt und gemäß den geltenden Regeln in Behältern gesammelt und entsorgt.

Die Reinigung erfolgt soweit möglich mit Reinigungsmitteln. Lösungsmittel sind zu vermeiden.

6.4. Verweis auf andere Abschnitte

Siehe Abschnitt 13 "Hinweise zur Entsorgung" zur Handhabung von Abfällen.

Für Schutzmaßnahmen siehe Abschnitt 8 "Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen".

ABSCHNITT 7: HANDHABUNG UND LAGERUNG

7.1. Schutzmaßnahmen zur sicheren Handhabung

Direkten Kontakt mit dem Produkt vermeiden.
Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.
Siehe Abschnitt 8 zum Persönliche Schutzausrüstungen.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Geöffnete Behälter sorgfältig verschließen und aufrecht lagern, um jegliches Auslaufen zu verhindern.
In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren.

Geeigneten Verpackung:

Nur in Originalverpackung aufbewahren.

Lagerbedingungen:

Trocken, kühl und gut belüftet.

Unverträgliche Materialien:

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

7.3. Spezifische Endanwendungen

Dieses Produkt sollte nur für Anwendungen in Abschnitt 1.2 verwendet werden.

ABSCHNITT 8: BEGRENZUNG UND ÜBERWACHUNG DER EXPOSITION/PERSÖNLICHE SCHUTZAUSRÜSTUNGEN

8.1. Zu überwachende Parameter

Kaliumhydroxid;Ätzkali
Arbeitsplatzgrenzwert (8 Stunden) (mg/m³): 2 E

Natriumhydroxid;Ätznatron
Kurzzeitwert (15 Minuten) (mg/m³): 4 E
Arbeitsplatzgrenzwert (8 Stunden) (mg/m³): 2 E

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DNEL

Kaliumhydroxid;Ätzkali

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m³

Natriumhydroxid;Ätznatron

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Systemische Auswirkungen - Allgemeine Bevölkerung	Dermal	2 %
Langfristig – Systemische Auswirkungen - Arbeiter	Dermal	<2 %
Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m³

PNEC

Natriumhydroxid;Ätznatron

Expositionswege:	Dauer der Aussetzung:	PNEC:
Erde		0.853 mg/kg TG
Kläranlagen		51 mg/L
Pulsierende Freisetzung		3.1 mg/L
Pulsierende Freisetzung (Seewasser)		2.3 mg/kg TG
Seewasser		0.64 mg/L
Süßwasser		6.4 mg/L
Süßwassersedimente		23 mg/kg TG

8.2. Begrenzung und Überwachung der Exposition

Es wird empfohlen die Einhaltung der angegebenen Grenzwerte regelmäßig zu kontrollieren.

Allgemeine Hinweise:

Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.

Expositionsszenarien:

Für dieses Produkt wurden keine Expositionsszenarien implementiert.

Expositionsgrenzwerte:

Für berufliche Benutzer gelten in Bezug auf die maximalen Expositionskonzentrationen die gesetzlichen Vorschriften zu Arbeitshygiene. Siehe die obigen arbeitshygienische Grenzwerte.

Zusätzliche Hinweise zur Gestaltung technischer Anlagen:

Dampfbildung muss auf ein Minimum reduziert werden und unter den aktuellen Grenzwerten liegen (siehe oben). Wenn der reguläre Luftstrom im Arbeitsraum nicht ausreichend ist, wird die Installation eines lokalen Abluftsystems empfohlen. Not- und Augenduschen müssen deutlich gekennzeichnet sind. Stellen Sie sicher, dass Augenspülstationen und Notduschen leicht erreichbar sind. Es gelten die üblichen Vorkehrungsmaßnahmen bei der Verwendung des Produkts. Einatmen von Dämpfen vermeiden.

Hygienemaßnahmen:

Bei jeder Pause in der Produktnutzung und bei Ende der Arbeiten sind exponierte Körperteile zu waschen. Besonders auf Hände, Unterarme und Gesicht achten.

Begrenzung der Umweltexposition:

Bei Arbeiten mit dem Produkt dafür sorgen, dass Auffangmaterial in unmittelbarer Nähe zur Verfügung steht. Während der Arbeit möglichst Auffangbehälter verwenden.

Individuelle Schutzmaßnahmen

Allgemeine Schutzmaßnahmen:

Nur Schutzausrüstung mit CE-Kennzeichnung verwenden.

Atemschutz:

Typ	Klasse	Farbe	Normen	
Atemschutz ist im Falle ausreichender Belüftung nicht notwendig.				

Körperschutz:

Empfohlen	Typ/Kategorien	Normen	
Es ist besondere Arbeitskleidung zu tragen.	-	-	

Handschutz:

Arbeitssituation	Material	Minimale Schichtdicke (mm)	Durchbruchzeit (min.)	Normen	
Im Falle längere Exposition oder bei hoher Konzentration	Nitrilkautschuk	0,4	> 480	EN374-2, EN16523-1, EN388	
Im Falle von kurzzeitiger Exposition oder bei niedriger Konzentration	Nitrilkautschuk	1,5	> 30	EN374-2, EN16523-1, EN388	

Augenschutz:

Typ	Normen	
Schutzbrille mit Seitenschutz tragen	EN166	

ABSCHNITT 9: PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Form:

Flüssig

Farbe:

Hellgelb

▼ **Geruch / Geruchsschwelle (ppm):**

Mild

pH:

13,5

Dichte (g/cm³):

1,29 (20 °C)

Kinematische Viskosität:

Es liegen keine Daten vor.

Partikeleigenschaften:

Gilt nicht für Flüssigkeiten.

Zustandsänderungen

Schmelzpunkt/Gefrierpunkt (°C):

Es liegen keine Daten vor.

Erweichungspunkt/ -bereich (°C):

Gilt nicht für Flüssigkeiten.

Siedepunkt (°C):

100

Dampfdruck:

Es liegen keine Daten vor.

Relative Dampfdichte:

Es liegen keine Daten vor.

Zersetzungstemperatur (°C):

Es liegen keine Daten vor.

Explosions und Feuer Daten

Flammpunkt (°C):

Es liegen keine Daten vor.

Entzündbarkeit (°C):

Es liegen keine Daten vor.

Zündtemperatur (°C):

Es liegen keine Daten vor.

Explosionsgrenzen (% v/v):

Es liegen keine Daten vor.

Löslichkeit

Löslichkeit in Wasser:

Vollständig löslich

n-Octanol/Wasser Verteilungskoeffizient (LogKow):

Es liegen keine Daten vor.

Löslichkeit in Fett (g/L):

Es liegen keine Daten vor.

9.2. Sonstige Angaben

Weitere physikalische und chemische Parameter:

Es liegen keine Daten vor.

Brandfördernde Eigenschaften:

Es liegen keine Daten vor.

ABSCHNITT 10: STABILITÄT UND REAKTIVITÄT

10.1. Reaktivität

Es liegen keine Daten vor.

10.2. Chemische Stabilität

Das Produkt ist unter den in Abschnitt 7 aufgeführten Bedingungen stabil.

10.3. Möglichkeit gefährlicher Reaktionen

Keine bekannt.

10.4. Zu vermeidende Bedingungen

Keine bekannt.

10.5. Unverträgliche Materialien

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

10.6. Gefährliche Zersetzungsprodukte

Bei thermischer Zersetzung können ätzende Dämpfe entstehen.

ABSCHNITT 11: TOXIKOLOGISCHE ANGABEN

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Akute Toxizität

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Spezies:	Ratte, männlichen
Expositionswegen:	Oral
Test:	LD50

Ergebnis: 333 - 388 mg/kg

Produkt / Substanz Natriumhydroxid;Ätznatron
Ergebnis: 45.4 mg/L

Produkt / Substanz Natriumhydroxid;Ätznatron
Spezies: Kaninchen
Test: LD 50
Ergebnis: 500 mg/kg

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Ätz-/Reizwirkung auf die Haut

Produkt / Substanz iT.33 laundry booster pro
Ergebnis: Schädliche Wirkungen beobachtet (Stark reizend)

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Schädliche Wirkungen beobachtet (Ätzend)

Produkt / Substanz Natriumhydroxid;Ätznatron
Ergebnis: Schädliche Wirkungen beobachtet (Reizend)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Schwere Augenschädigung/-reizung

Produkt / Substanz iT.33 laundry booster pro
Ergebnis: Schädliche Wirkungen beobachtet (Verursacht schwere Augenschäden)

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Schädliche Wirkungen beobachtet (Stark ätzend)

Produkt / Substanz Natriumhydroxid;Ätznatron
Prüfmethode: OECD 405
Spezies: Kaninchen
Ergebnis: Schädliche Wirkungen beobachtet (Ätzend)

Verursacht schwere Augenschäden.

Sensibilisierung der Atemwege

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Keine schädlichen Wirkungen beobachtet (nicht sensibilisierend)

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Sensibilisierung der Haut

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Keimzell-Mutagenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Karzinogenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Reproduktionstoxizität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei einmaliger Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei wiederholter Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Aspirationsgefahr

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.2. Angaben über sonstige Gefahren

Zusätzliche toxikologische Hinweise

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Gesundheit hormonstörende Eigenschaften aufweisen.

Sonstige Angaben

Keine bekannt.

ABSCHNITT 12: UMWELTBEZOGENE ANGABEN

12.1. Toxizität

Produkt / Substanz	iT.33 laundry booster pro
Spezies:	Andere waterorganismen, Leuciscus idus
Umwelt-kompartiment :	Wasser
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Bakterien, Pseudomonas putida
Test:	EC0
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Wasserflöhe, Ceriodaphnia dubia
Prüfdauer:	48 Stunden
Ergebnis:	40.4 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Prüfmethode:	OECD 203
Spezies:	Fisch, Oncorhynchus mykiss
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	45.4 mg/L

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.2. Persistenz und Abbaubarkeit

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.3. Bioakkumulationspotenzial

Produkt / Substanz	Natriumhydroxid;Ätznatron
Ergebnis:	Bioakkumulation nicht erwartet

12.4. Mobilität im Boden

Es liegen keine Daten vor.

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

12.6. Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Umwelt endokrinschädigende Eigenschaften aufweisen.

12.7. Andere schädliche Wirkungen

Keine bekannt.

ABSCHNITT 13: HINWEISE ZUR ENTSORGUNG

13.1. Verfahren der Abfallbehandlung

Das Produkt sollte als gefährlicher Abfall behandelt werden. (*)

HP 8 - Ätzend

Inhalt/Behälter zugelassenem Entsorger oder kommunaler Sammelstelle zuführen.

VERORDNUNG (EU) Nr. 1357/2014 der Kommission vom 18. Dezember 2014 über Abfälle.

Abfallschlüsselnr. (EWC):

20 01 29* Reinigungsmittel, die gefährliche Stoffe enthalten

Ungereinigte Verpackungen

Verpackungen mit Produktrückständen sind nach den gleichen Bedingungen zu entsorgen, wie das Produkt selbst.

ABSCHNITT 14: ANGABEN ZUM TRANSPORT

	14.1 UN	14.2 Ordnungsgemäße UN- Versandbezeichnung	14.3 Transportgefahrenklassen	14.4 PG*	14.5. Env**	Weitere Angaben:
ADR	UN1719	ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (Kaliumhydroxid;Ätzkali, Natriumhydroxid;Ätznatron)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L Tunnelbeschränkung code: (E) Nähere Informationen siehe unten.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L EmS: F-A S-B Nähere Informationen siehe unten.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Nähere Informationen siehe unten.

* Verpackungsgruppe

** Umweltgefahren

Anderes

Das Produkt fällt unter die Gefahrgutkonventionen.

ADR / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle A, Abschnitt 3.2.1. Schriftliche Anweisungen zur Schadensvermeidung bei transportbezogenen Un- oder Zwischenfällen siehe Abschnitt 5.4.3.

IMDG / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Abschnitt 3.2.1.

IATA / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle 4.2.

14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Nicht zutreffend.

14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten

Es liegen keine Daten vor.

ABSCHNITT 15: RECHTSVORSCHRIFTEN

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Nutzungsbeschränkungen:

Nur für gewerbliche Anwender.

Das Produkt darf erwerbsmäßig nicht von jungen Menschen unter 18 Jahren eingesetzt werden.

Bedarf für spezielle Schulung:

Keine besonderen Anforderungen.

Der Störfallverordnung - Gefahrenkategorien / Namentlich aufgeführte gefährliche Stoffe:

Nicht zutreffend.

WGK-Einstufung:

Wassergefährdungsklasse: WGK 1

Anderes:

Nicht zutreffend.

Verwendete Quellen:

Bundesrecht konsolidiert: Gesamte Rechtsvorschrift für Beschäftigungsverbote und -beschränkungen für Jugendliche, Fassung vom 16.09.2021

VERORDNUNG (EG) Nr. 648/2004 des Europäischen Parlaments und des Rates vom 31. März 2004 über Detergenzien.

VERORDNUNG (EU) Nr. 1357/2014 der Kommission vom 18. Dezember 2014 über Abfälle.

VERORDNUNG (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rates vom 16. Dezember 2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (CLP).

Verordnung (EG) Nr. 1907/2006 des Europäischen Parlaments und des Rates vom 18. Dezember 2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe (REACH).

15.2. Stoffsicherheitsbeurteilung

Nein

ABSCHNITT 16: SONSTIGE ANGABEN

H-Sätze (Abschnitt 3)

H290, Kann gegenüber Metallen korrosiv sein.

H302, Gesundheitsschädlich bei Verschlucken.

H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H315, Verursacht Hautreizungen.

H318, Verursacht schwere Augenschäden.

H319, Verursacht schwere Augenreizung.

Abkürzungen und Akronyme

ADN = Europäisches Übereinkommen über die internationale Beförderung von gefährlichen Gütern auf Binnenwasserstrassen

ADR = Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Strasse

ak = andere kontrollpflichtige Abfälle

akb = andere kontrollpflichtige Abfälle mit Begleitscheinpflicht

ATE = Schätzwert akute Toxizität

BCF = Biokonzentrationsfaktor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (Europäische Konformität)

CLP = Verordnung über die Einstufung, Kennzeichnung und Verpackung [Verordnung (EG) Nr. 1272/2008]

CSA = Stoffsicherheitsbeurteilung

CSR = Stoffsicherheitsbericht

DMEL = Abgeleiteter Minimaler-Effekt-Grenzwert

DNEL = Abgeleiteter Nicht-Effekt-Grenzwert

EAK = Europäischer Abfallkatalog

EINECS = Altstoffverzeichnis

ES = Expositionsszenario EUH-Satz = CLP-spezifischer Gefahrenhinweis

EuPCS = Europäisches Produktkategorisierungssystem

GHS = Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien

GWP = Potenzial zur Erwärmung der Erdatmosphäre

IATA = Internationale Flug-Transport-Vereinigung

IBC = Intermediate Bulk Container

IMDG = Gefährliche Güter im internationalen Seeschiffsverkehr

LogPow = Dekadischer Logarithmus des Oktanol-Wasser-Verteilungskoeffizienten

MARPOL = Internationales Übereinkommen von 1973 zur Verhütung der Meeresverschmutzung durch Schiffe in der Fassung des Protokolls von 1978. ("Marpol" = marine pollution)

nwg = Nicht wassergefährdend

OECD = Organisation für wirtschaftliche Zusammenarbeit und Entwicklung

PBT = Persistent, bioakkumulierbar und toxisch

PNEC = Abgeschätzte Nicht-Effekt-Konzentration

RID = Regelung zur internationalen Eisenbahnbeförderung gefährlicher Güter

RRN = REACH Registriernummer

S = Sonderabfälle

SCL = Spezifischen Konzentrationsgrenzwert.

SVHC = Besonders besorgniserregende Substanzen

STOT-RE = Spezifische Zielorgan-Toxizität - Wiederholte Exposition

STOT-SE = Spezifische Zielorgan-Toxizität - Einmalige Exposition

UN = Vereinigte Nationen

UVCB = Stoffe mit unbekannter oder variabler Zusammensetzung, komplexe Reaktionsprodukte und biologische Materialien.

VOC = Flüchtige organische Verbindungen

vPvB = Sehr persistent und sehr bioakkumulierbar

WGK = Wassergefährdungsklasse

Anderes

Die Klassifizierung der Mischung hinsichtlich der Gesundheitsgefahren entspricht den von der Verordnung (EU) Nr. 1272/2008 (CLP) vorgegebenen Berechnungsmethoden.

Sicherheitsdatenblatt abgenommen durch

Quality & Compliance

Anderes

Änderungen im Verhältnis zur letzten umfassenden Revision (erste Ziffer in der SDS-Version, s. Abschnitt 1) dieses Sicherheitsdatenblatts sind mit einem Dreieck markiert.

Angaben in diesem Sicherheitsdatenblatt gelten nur für das Produkt in Abschnitt 1 und gelten nicht unbedingt bei Einsatz zusammen mit anderen Produkten.

Es wird empfohlen, dem tatsächlichen Produktbenutzer dieses Sicherheitsdatenblatt auszuhändigen. Die erwähnten Angaben sind nicht als Produktspezifikation zu verwenden.

Land-sprache: AT-de

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/8/2025

SDS Version:

2.0

Date of previous version:

28/7/2025 (1.0)

1.4. Emergency telephone number

In an emergency call 000

In less severe situations call the Poisons Information Centre: 13 11 26 (Available 24/7 from anywhere in Australia)

See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

This material is considered hazardous according to the Work Health and Safety Regulations.

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)
Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)
Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash
sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure call the NSW Poisons Information Centre on 13 11 26 (Available 24/7) in order to obtain further advice.

Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

potassium hydroxide;caustic potash

Long term exposure limit (8 hours) (mg/m³): 2 Peak limitation

sodium hydroxide;caustic soda

Long term exposure limit (8 hours) (mg/m³): 2 Peak limitation

Workplace exposure standards for airborne contaminants (Safe Work Australia). (January 2024)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only protective equipment that carries the RCM symbol.

Respiratory Equipment:

Conforms to Code of Practice - Preparation of safety data sheets for hazardous chemicals, June 2023.

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda

Conforms to Code of Practice - Preparation of safety data sheets for hazardous chemicals, June 2023.

Conclusion: Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

**** Environmental hazards**

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2R

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Control of major hazard facilities:

Not applicable.

Additional information:

Not applicable.

The Australian Inventory of Industrial Chemicals (AIIC):

potassium hydroxide;caustic potash is listed

sodium hydroxide;caustic soda is listed

Sources:

Model Work Health and Safety Regulations as at 1 January 2021.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ADG = The Australian Code for the Transport of Dangerous Goods by Road & Rail
AICIS = Australian Industrial Chemicals Introduction Scheme
AIIC = Australian Inventory of Industrial Chemicals
AS = Australian Standard
AS/NZS = Australian New Zealand Standard
ATE = Acute Toxicity Estimate
AUH = Hazard statements specific for Australia
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
EINECS = European Inventory of Existing Commercial chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem = Hazardous chemicals
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NICNAS = National Industrial Chemicals Notification and Assessment Scheme (replaced by AICIS since 2020)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
RCM = Regulatory Mark of Conformity
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL = A specific concentration limit
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
SUSMP = Standard for the Uniform Scheduling of Medicines and Poisons
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
WHS = Work Health and Safety Regulations

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Work Health and Safety Regulations.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: AU-en

БЕЗБЕДНОСНИ ЛИСТ

iT.33 laundry booster pro

ПОГЛАВЉЕ 1. ИДЕНТИФИКАЦИЈА ХЕМИКАЛИЈЕ И ПОДАЦИ О ЛИЦУ КОЈЕ СТАВЉА ХЕМИКАЛИЈУ У ПРОМЕТ

1.1. Идентификација хемикалије

Комерцијално име:

iT.33 laundry booster pro

1.2. Идентификовани начини коришћења хемикалије и начини коришћења који се не препоручују

Употреба материјала/смеше:

Детерџенти и средства за чишћење (укључујући и оне на бази растварача)

Дозвољено само за професионално коришћење.

Употребе које се не препоручују:

Нема познатих.

1.3. Подаци о снабдевачу

Компанија и адреса:

Hygieniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygieniq.com

Електронска адреса:

info@hygieniq.com

Датум безбедносног листа:

14.8.2025.

Верзија безбедносног листа:

2.0

Датум претходне верзије:

28.7.2025. (1.0)

1.4. Број телефона за хитне случајеве

Телефонски број хитне помоћ: 124

Такође погледајте поглавље 4 за мере прве помоћи.

ПОГЛАВЉЕ 2. ИДЕНТИФИКАЦИЈА ОПАСНОСТИ

Classified according to the Regulation on Classification, Labeling and Packaging of Chemicals.

2.1. Класификација хемикалије

Met. Corr. 1; H290, Може бити корозивно за метале.

Skin Corr. 1A; H314, Изазива тешке опекотине коже и оштећење ока.

Eye Dam. 1; H318, Доводи до тешког оштећења ока.

2.2. Елементи обележавања

Пиктограм опасности:



Реч упозорења:

Опасност

Обавештење о опасности:

Може бити корозивно за метале. (H290)

Изазива тешке опекотине коже и оштећење ока. (H314)

Обавештење о мерама предострожности:

▼ Опште:

Није применљиво.

Превенција:

Не удисати пару/маглу. (P260)

Носити заштиту за очи/заштитне рукавице/заштитну одећу. (P280)

▼ Реаговање:

АКО ДОСПЕ НА КОЖУ (или косу): Одмах скинути сву контаминирану одећу. Испрати кожу водом или истуширати се. (P303+P361+P353)

АКО ДОСПЕ У ОЧИ: Пажљиво испирати водом неколико минута. Уклонити контактна сочива, уколико постоје и уколико је то могуће учинити. Наставити са испирањем. (P305+P351+P338)

Одмах позвати ЦЕНТАР ЗА КОНТРОЛУ ТРОВАЊА/лекара. (P310)

Складиштење:

Чувати у амбалажи са унутрашњим слојем. (P406)

Одлагање:

Одлагање садржаја / амбалаже у складу са локалним прописима (P501)

Опасне материје:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Додатно обавештење о опасности:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Остале опасности

Додатна упозорења:

Ова смеша/производ не садржи супстанце за које се сматра да испуњавају критеријуме да буду класификовани као ПБТ и/или вПвБ.

Овај производ не садржи материје које се сматрају ендокриним дисрупторима у складу са критеријумима наведеним у Делегираној уредби Комисије (ЕУ) 2017/2100 или Уредби Комисије (ЕУ) 2023/707.

ПОГЛАВЉЕ 3. САСТАВ / ПОДАЦИ О САСТОЈЦИМА

3.1. Подаци о састојцима супстанце

Није применљиво. Овај производ је микстура.

3.2. ▼ Подаци о састојцима смеше

Према правилник о садржају безбједоносно-техничког листа (Службени гласник Републике Српске, број 104/18)

Хемијски назив	CAS / EC / индекса / REACH број	% w/w	Класификација	Напомена
potassium hydroxidecaustic potash	CAS бр.: 1310-58-3 EC бр.: 215-181-3 REACH: Индекс бр. : 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
sodium hydroxidecaustic soda	CAS бр.: 1310-73-2 EC бр.: 215-185-5 REACH: 01-2119457892-27-XXXX Индекс бр. : 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Погледајте потпуни текст Х-израза у поглавље 16. Границе изложености током рада наведене су у поглавље 8, ако су доступне.

Остали подаци

-

ПОГЛАВЉЕ 4. МЕРЕ ПРВЕ ПОМОЋИ

4.1. Опис мера прве помоћи

Опште информације:

Уколико је дисање неправилно, и јавља се поспаност, губитак свести или грчеви: Позовите 124 и одмах почните са мерама помоћи (прва помоћ).

Ако имате сумњив у вези са стањем повређене особе или ако симптоми потрају, обратите се лекару. Никад несвесној особи немојте давати воду или неко друго пиће.

После удисања:

Потешкоће са дисањем или иритација дисајних путева: Изведите особу на свеж ваздух и останите уз њу.

У додиру са кожом:

Дуго испирајте изложено подручје водом - најмање 30 минута. Можда ће бити потребно испирање неколико сати. Користите угодну температуру воде (20-30 °C). Контактирајте информације о тровању/лекара/болницу за даље савете о праћењу и лечењу.

Одмах скините контаминирану одећу и обућу. Обавезно темелјно оперете изложену кожу водом и сапуном. Може се користити средство за чишћење коже. НЕ користите раствараче или разредиваче.

Ако дође до иритације коже: Потражити медицински савет / мишљење.

Након контакта са очима:

АКО ДОСПЕ У ОЧИ: Испирајте очи са много воде или сланом водом (20-30 °C) најмање 30 минута и наставите са испирањем док иритација не престане. Извадите контактна сочива. Обавезно исперите подручје испод горњег и доњег капка. Одмах потражите лекарску помоћ и наставите са испирањем.

Након гутања:

У случају гутања, одмах се обратите лекару и понесите безбедносни лист или етикету. Ако је особа свесна, дајте јој воде. НЕ покушавајте да изазовете повраћање, осим ако то не препоручи лекар. Држите главу окренуту на доле како бисте спречили да се садржај повраћања врати у уста и грло. Спречите шок тако што ћете повређену особу држати мирном и утопљеном. Ако дисање престане, одмах започните оживљавање. Уколико дође до губитка свести, повређену особу пребаците у положај за опоравак. Позовите хитну помоћ.

Сагоревањe:

Није применљиво.

4.2. Најважнији симптоми и ефекти, акутни и одложени

Оштећење ткива: Овај производ садржи супстанце са корозивним дејством на кожу. Удисање испарења или аеросола може имати штетне ефекте на плућа, изазвати иритацију и опекотине на дисајним органима, као и кашаљ. Контакти путем коже и контакт са очима имају неповратне ефекте.

4.3. Хитна медицинска помоћ и посебан третман

У СЛУЧАЈУ излагања или забринутости:

Хитно потражити медицински савет / мишљење

Информације за здравствене раднике

Донесите безбедносно упутство .

ПОГЛАВЉЕ 5. МЕРЕ ЗА ГАШЕЊЕ ПОЖАРА

5.1. Средства за гашење пожара

Није применљиво.

5.2. Посебне опасности које могу настати од супстанци и смеша

Пожар ће довести до стварања густог дима. Излагање запалјивим производима може наштетити вашем здрављу. Затворене посуде изложене ватри требало би охладити водом. Не дозволите да вода за гашење пожара доспе у канализацију и оближње површинске токове.

Уколико је производ изложен високим температурама, нпр. у случају пожара, настају опасна јединица као резултат његовог распадања. То су:

Неки метални оксиди

5.3. Савет за ватрогасце

Носите самостални апарат за дисање и заштитну одјећу ради спречавања контакта. Након директног излагања позовите 124 (24 сата дневно) ради добијања додатних савета.

ПОГЛАВЉЕ 6. МЕРЕ У СЛУЧАЈУ УДЕСА

6.1. Личне предострожности, заштитна опрема и поступци у случају удеса

Избегавајте директан контакт са проливеним материјама.

Осигурајте адекватну вентилацију, посебно у затвореним просторима.

Контаминирани простор може бити клизав.

6.2. Предострожности које се односе на животну средину

Избегавајте испуштање у језера, потоке, канализације итд.

Неовлашћене особе држите подаље од изливања.

6.3. Мере које треба предузети и материјал за спречавање ширења и санацију

Користите песак, земљу, вермикулит, диятомейску земљу да бисте задржали и покупили незапалјиве упијајуће материјале и ставите у контејнер за одлагање, у складу са локалним прописима.

Чишћење се у мери у којој је то могуће обавља нормалним средствима за чишћење. Избегавајте употребу растварача.

6.4. Упућивање на друга поглавља

Погледајте поглавље 13 „Одлагање” у вези са поступком за отпад.

За заштитне мере погледајте поглавље 8 „Контрола изложености и лична заштита”.

ПОГЛАВЉЕ 7. РУКОВАЊЕ И СКЛАДИШТЕЊЕ

7.1. Предострожности за безбедно руковање

Избегавајте директан контакт са производом.

Пушење, и конзумирање хране и пића нису дозвољени у радном простору.

За информације о личној заштити погледајте поглавље „Контрола изложености и лична заштита“.

7.2. Услови за безбедно складиштење, укључујући некомпатибилности

Отворени контејнери се морају пажљиво затворити и држати усправно како би се спречило цурење.

Чувати у амбалажи са унутрашњим слојем .

Препоручени материјал за складиштење:

Чувати само у оригиналној амбалажи.

Температура складиштења:

Суво, хладно и добро проветравано

Некомпатибилни материјали:

Јаке киселине, јаке базе, јака оксидациона средства и јака редукциона средства.

7.3. Посебни начини коришћења

Овај производ би требало користити само за примене наведене у поглавље 1.2

ПОГЛАВЉЕ 8. КОНТРОЛА ИЗЛОЖЕНОСТИ И ЛИЧНА ЗАШТИТА

8.1. Параметри контроле изложености

potassium hydroxidecaustic potash

Краткотрајна гранична вредност изложености (КГВИ) (mg/m³): 2

sodium hydroxidecaustic soda

Краткотрајна гранична вредност изложености (КГВИ) (mg/m³): 2

Правилник о превентивним мјерама за безбједан и здрав рад при излагању хемијским материјама (Службени гласник Републике Српске, број 4/20)

DNEL

potassium hydroxidecaustic potash

Трајање:	Пут експозиције:	DNEL:
Дугорочно - Локално - Потрошач	Инхалацијски	1 mg/m ³
Дугорочно - Локално - Радник	Инхалацијски	1 mg/m ³

sodium hydroxidecaustic soda

Трајање:	Пут експозиције:	DNEL:
Дугорочно - Системски - Потрошач	Дерматолошки	2 %
Дугорочно - Системски - Радник	Дерматолошки	<2 %
Дугорочно - Локално - Потрошач	Инхалацијски	1 mg/m ³
Дугорочно - Локално - Радник	Инхалацијски	1 mg/m ³

PNEC

sodium hydroxidecaustic soda

Пут експозиције:	Трајање изложености:	PNEC:
Морска вода		0.64 mg/L
Периодично ослобађање		3.1 mg/L
Периодично ослобађање (Морска вода)		2.3 mg/kg TG
Постројењима за пречишћавање отпадних вода		51 mg/L

Према правилник о садржају безбједоносно-техничког листа (Службени гласник Републике Српске, број 104/18)

Седимент слатке воде		23 mg/kg TG
Слатка вода		6.4 mg/L
Тло		0.853 mg/kg TG

8.2. Контрола изложености и лична заштита

Поштовање утврђених вредности ограничења излагања током рада би требало редовно контролисати.

Опште препоруке:

Пушење, и конзумирање хране и пића нису дозвољени у радном простору.

Сценарији излагања:

За овај производ нису имплементирани сценарији изложености.

Границе излагања:

Професионални корисници подлежу законски утврђеним максималним концентрацијама излагања током рада. Погледајте у тексту изнад граничне вредности хигијене на раду.

Одговарајући технички уређаји за управљање:

Формирање паре мора бити минимално и испод тренутних граничних вредности (види горе). Препоручује се уградња локалног издувног система ако нормалан проток ваздуха у радној соби није довољан. Проверите да ли је испирање очију и туширање у хитним случајевима јасно означено.

Осигурајте да се станице за испирање очију и безбедносни тушеви налазе на дохват руке.

Примените стандардне мере предострожности током употребе производа. Избегавајте удисање испарења.

Хигијенске мере:

Сви изложени делови тела морају да се темелјно оперу у интервалима између употребе производа и на крају радног дана. Обратите посебну пажњу на руке, подлактице и лице.

Мере спречавања контакта са животном средином:

Материјал за пригушивање држите у близини радног места. Ако је могуће, сакупите материјал присут током рада.

Опште мере заштите и хигијене

Генерално:

Користите само заштитну опрему са знаком CE.

Заштита дисајних путева:

Тип	Класа	Боя	Стандарди	
Респираторна заштита није потребна				

Заштита тела:

Препоручено	Тип / Категорија	Стандарди	
Posebna radna odeća	-	-	

Заштитне руке:

Радна ситуација	Материјал	Дебљина рукавице	Време продирања (Минути)	Стандарда	
У случају продуженог излагања или високе концентрације	Нитрилни каучук	0.4	> 480	EN374-2, EN16523-1, EN388	

Према правилник о садржају безбједоносно-техничког листа (Службени гласник Републике Српске, број 104/18)

Радна ситуација	Материјал	Дебљина рукавице	Време продирања (Минути)	Стандарда	
У случају краткотрајног излагања или ниске концентрације	Нитрилни каучук	1,5	> 30	EN374-2, EN16523-1, EN388	

Заштита очију/лица:

Тур	Стандарди	
Заштитне наочаре са бочним штитницима	EN166	

ПОГЛАВЉЕ 9. ФИЗИЧКА И ХЕМИЈСКА СВОЈСТВА

9.1. Подаци о основним физичким и хемијским својствима хемикалије

Изгледу - агрегатно стање:

Течно

Боји:

Светло жуто

▼ Мирису / Прагу мириса (ppt):

Благо

pH:

13.5

Релативна густина (g/cm³):

1,29 (20 °C)

Вискозитет:

Нема доступних података.

Карактеристике честица:

Не односи се на течности

Фазне промене

Тачка топљења / тачка мржњења (°C):

Нема доступних података.

Тачка/опсег омекшавања (°C):

Не односи се на течности

Почетна тачка кључања и опсег кључања (°C):

100

Напон паре:

Нема доступних података.

Густина паре:

Нема доступних података.

Температура разлагања (°C):

Нема доступних података.

Подаци о опасностима од пожара и експлозије

Запаљивост (чврсто, гасовито):

Нема доступних података.

Тачка паљења (°C):

Нема доступних података.

Температура самопаљења (°C):

Нема доступних података.

Горња / доња граница запаљивости или експлозивности (%v/v):

Нема доступних података.

Растворљивост

Растворљивост у вода:

У потпуности растворљив

Коефицијент расподеле у систему n-октанол/вода (LogKow):

Нема доступних података.

Растворљивост у масти (g/L):

Нема доступних података.

9.2. Остали подаци

Остали физички и хемијски параметри:

Нема доступних података.

Нема доступних података.

ПОГЛАВЉЕ 10. СТАБИЛНОСТ И РЕАКТИВНОСТ

10.1. Реактивност

Нема доступних података.

10.2. Хемијска стабилност

Производ је стабилан под условима наведеним у одељку 7 „Руковање и складиштење“.

10.3. Могућност настанка опасних реакција

Нема познатих.

10.4. Услови које треба избегавати

Нема познатих.

10.5. Некомпатибилни материјали

Јаке киселине, јаке базе, јака оксидациона средства и јака редукциона средства.

10.6. Опасни производи разградње

Термичко распадање може произвести корозивне паре.

ПОГЛАВЉЕ 11. ТОКСИКОЛОШКИ ПОДАЦИ

11.1. Подаци о токсичним ефектима

Акутна токсичност

Хемијски назив	potassium hydroxidecaustic potash
Врсте:	Пацов, мужјаци
Пут експозиције:	Орално
Тест:	LD50
Вредност:	333 - 388 mg/kg

Хемијски назив	sodium hydroxidecaustic soda
Вредност:	45.4 mg/L

Према правилник о садржају безбједоносно-техничког листа (Службени гласник Републике Српске, број 104/18)

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Зеџ
Тест:	LD 10
Вредност:	500 mg/kg

На основу доступних података, критеријуми за класификацију нису испуњени.

Корозивно оштећење коже / иритација

Хемијски назив	iT.33 laundry booster pro
Вредност:	Установљени су негативни ефекти (Јако иритантан)

Хемијски назив	potassium hydroxidecaustic potash
Вредност:	Установљени су негативни ефекти (Корозивно)

Хемијски назив	sodium hydroxidecaustic soda
Вредност:	Установљени су негативни ефекти (Иритантан)

Изазива тешке опекотине коже и оштећење ока.

Тешко оштећење ока / иритација ока

Хемијски назив	iT.33 laundry booster pro
Вредност:	Установљени су негативни ефекти (Доводи до тешког оштећења ока)

Хемијски назив	potassium hydroxidecaustic potash
Вредност:	Установљени су негативни ефекти (Јако корозивно)

Хемијски назив	sodium hydroxidecaustic soda
Метод тестирања:	ОЕЦД 405
Врсте:	Зеџ
Вредност:	Установљени су негативни ефекти (Корозивно)

Доводи до тешког оштећења ока.

Сензибилизација коже

На основу доступних података, критеријуми за класификацију нису испуњени.

Сензибилизација респираторних органа

Хемијски назив	potassium hydroxidecaustic potash
Вредност:	Нису установљени негативни ефекти (не сензибилизација)

На основу доступних података, критеријуми за класификацију нису испуњени.

Мутагеност геринативних ћелија

На основу доступних података, критеријуми за класификацију нису испуњени.

Карциногеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Токсичност по репродукцију

На основу доступних података, критеријуми за класификацију нису испуњени.

Специфична токсичност за циљни орган - једнократна изложеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Специфична токсичност за циљни орган - вишекратна изложеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Опасност од аспирације

На основу доступних података, критеријуми за класификацију нису испуњени.

11.2. Информације о другим опасностима

Dugoročni efekti

Оштећење ткива: Овај производ садржи супстанце са корозивним дејством на кожу. Удисање испарења или аеросола може имати штетне ефекте на плућа, изазвати иритацију и опекотине на дисајним органима, као и кашаљ. Контакти путем коже и контакт са очима имају неповратне ефекте.

Угрожава рад ендокриних жлезда

Ова смеша/производ не садржи никакве материје за које се сматра да имају својства изазивања хормонског поремећаја.

Додатне информације

Нема познатих.

ПОГЛАВЉЕ 12. ЕКОТОКСИКОЛОШКИ ПОДАЦИ

12.1. Токсичност

Хемијски назив	iT.33 laundry booster pro
Врсте:	Andere waterorganismen, Leuciscus idus
Окружење:	Вода
Трајање:	96 сати
Тест:	LC50
Вредност:	>100 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Бактерије, Pseudomonas putida
Тест:	EC0
Вредност:	>100 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Водене буве, Ceriodaphnia dubia
Трајање:	48 сати
Вредност:	40.4 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Метод тестирања:	ОЕЦД 203
Врсте:	Рибе, Oncorhynchus mykiss
Трајање:	96 сати
Тест:	LC50
Вредност:	45.4 mg/L

На основу доступних података, критеријуми за класификацију нису испуњени.

12.2. Перзистентност и разградљивост

На основу доступних података, критеријуми за класификацију нису испуњени.

12.3. Потенцијал биоакмулације

Хемијски назив	sodium hydroxidecaustic soda
Закључак:	Биоакмулација се не очекује

12.4. Мобилност у земљишту

Нема доступних података.

12.5. Резултати ПБТ и вПвБ процене

Ова смеша/производ не садржи супстанце за које се сматра да испуњавају критеријуме да буду класификовани као ПБТ и/или вПвБ.

12.6. Угрожава рад ендокриних жлезда

Ова смеша/производ не садржи никакве материје за које се када се нађу унутар животне средине сматра да имају својства ометања ендокриног система.

12.7. Остали штетни ефекти

Према правилник о садржају безбједоносно-техничког листа (Службени гласник Републике Српске, број 104/18)

Нема познатих.

ПОГЛАВЉЕ 13. ОДЛАГАЊЕ

Методe третмана отпада

На производ се односе прописи о опасном отпаду. (*)

HP 8 - Корозивно

Одлагање садржаја / амбалаже у складу са локалним прописима.

Правилник о категоријама, испитивању и класификацији отпада (Службени гласник Републике Српске, број 19/15 и 79/18).

Код европског каталога отпада (EWЦ)

20 01 29* детерџенти који садрже опасне супстанце

Специфично означавање

Контаминиране амбалаже

Амбалажа која садржи остатке производа мора се одложити на исти начин као и производ.

ПОГЛАВЉЕ 14. ПОДАЦИ О ТРАНСПОРТУ

	14.1 UN	14.2 Назив за терет у транспорту	14.3 Класа	14.4 PG*	14.5. Env**	Остали подаци:
ADR	UN1719	НАГРИЗАЈУЋА АЛКАЛНА ТЕЧНА МАТЕРИЈА, Н.Д.Н. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	Ограничене количина: 1 L Кодови за ограничења за тунеле: (E) За додатне информације, погледајте доле.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	Ограничене количина: 1 L EmS: F-A S-B За додатне информације, погледајте доле.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	За додатне информације, погледајте доле.

* Група паковања

** Опасност по животну средину

Додатне информације

Овај производ је обухваћен прописима о транспорту опасне робе.

АДР / Видети табелу А, одељак 3.2.1 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом. Видети одељак 5.4.3, за упутства у писаној форми у вези са ублажавањем штета у вези са инцидентима или незгодама током транспорта.

ИМГД / Видети одељак 3.2.1 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом.

IATA / Видети табелу 4.2 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом.

14.6. Посебне предострожности за корисника

Није применљиво.

14.7. Транспорт у расутом стању (Анексу ИИ Међународне конвенције за спречавање загађења из бродова и ИБЦ Цоде)

Нема доступних података.

ПОГЛАВЉЕ 15. РЕГУЛАТОРНИ ПОДАЦИ

15.1. Прописи у вези са безбедношћу, здрављем и животном средином

Ограничења за примену:

Дозвољено само за професионално коришћење.

Особе млађе од 18 година не смеју бити изложене овом производу.

Захтеви за специфичним образовањем:

Нема посебних захтева.

Додатне информације:

Није применљиво.

Извори:

Закон о заштити на раду (Службени гласник Републике Српске, бр. 01/08 и 13/10).

Правилник о детерџентима (Службени гласник Републике Српске, број 14/19).

Правилник о категоријама, испитивању и класификацији отпада (Службени гласник Републике Српске, број 19/15 и 79/18).

Правилник о класификацији, обиљежавању и паковању хемикалија (Службени гласник Републике Српске, бр. 118/20).

Закон о хемикалијама (Службени гласник Републике Српске, бр. 21/18).

15.2. Процена безбедности хемикалије.

Не

ПОГЛАВЉЕ 16. ОСТАЛИ ПОДАЦИ

Комплетан текст Х-фраза како је наведено у поглавље 3

H290, Може бити корозивно за метале.

H302, Штетно ако се прогута.

H314, Изазива тешке опекотине коже и оштећење ока.

H315, Изазива иритацију коже.

H318, Доводи до тешког оштећења ока.

H319, Доводи до јаке иритације ока.

Скраћенице и акроними

ADR = Европски споразум о међународном друмском превозу опасне робе
ATE = Процена акутне токсичности
BCF = Фактор биоконцентрације
CAS = Служба хемијских сажетака
CE = европска усаглашеност
CLP = Уредба о класификацији, означавању и паковању [Уредба (ЕЗ) бр. 1272/2008]
CSA = Процена хемијске безбедности
CSR = Извештај о хемијској безбедности
CTOT = Специфична циљна токсичност органа
DMEL = Изведени минимални ниво ефекта
DNEL = Изведени ниво без ефекта
EINECS = Европски инвентар постојећих комерцијалних хемијских супстанци
ES = Сценарио изложености
EUN izjava = ЦЛП-специфична изјава о опасности
EUPCS = Европски систем категоризације производа
EWЦ = Европски каталог отпада
GHS = Глобално усклађени систем класификације и обележавања хемикалија
GWP (ГВП) = Потенцијал глобалног загревања
IARC = међународна агенција за истраживање рака
IATA = Међународно удружење за ваздушни саобраћај
IBC = Средњи контејнер за расути терет
IMDG = Међународна поморска опасна роба
LogPow = Логаритам коефицијента раздвајања октанол/вода
MARPOL = Међународна конвенција о спречавању загађења са бродова из 1973. године, измењена протоколом из 1978. („Marpol“ = загађење мора)
ОЕЦД = Организација за Економску Царадњу и Дазвој
ПБТ = Истрајан, биоакумулативан и токсичан
PNEC = Предвиђена концентрација без ефекта
RID = Прописи који се тичу међународног превоза опасне робе железницом
RRN = REACH регистрациони број
SCL = има одређену границу концентрације.
SVHC = Веома забринјавајуће супстанце
STOT-RE = Специфична циљна токсичност органа - понављана излагања
STOT-SE = Специфична циљна токсичност органа - појединачна излагања
TWA = Временски пондерисан просек
UN = Уједињене нације
UVBC = Непознат или променљив састав, сложени продукти реакције или биолошки материјали
VOC = Нестабилно органско јединијење
ВПВБ = Веома трајно и врло биоакумулативно

Додатне информације

Класификација смеше у погледу опасности по здравље уађена је у складу са методама израчунавања описаним у Правилник о класификацији, обилежавању и паковању хемикалија.

Безбедносни лист потврђује

Quality & Compliance

Остали подаци

Промена (сразмерно последњој суштинској промени (прва шифра у верзији СДС, погледајте поглавље 1)) и обележена је троуглом.

Подаци у овом безбедносном упутству односе се само на овај одређени производ (поменут у поглавље 1) и нису нужно тачни за употребу са другим хемикалијама/производима.

Препоручује се да ово безбедносно упутство дате стварном кориснику производа. Информације у овом безбедносном упутству не могу се користити као спецификације производа.

Земља-језик: BA-sr

FICHE DE DONNÉES DE SÉCURITÉ

iT.33 laundry booster pro

RUBRIQUE 1: IDENTIFICATION DE LA SUBSTANCE/DU MÉLANGE ET DE LA SOCIÉTÉ/DE L'ENTREPRISE

1.1. Identificateur de produit

Marque commerciale:
iT.33 laundry booster pro

Identifiant unique de formulation (UFI):
EMGV-AVQ8-YF2J-F4QE

1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Utilisations identifiées pertinentes de la substance ou du mélange:
Produits de lavage et de nettoyage (y compris produits à base de solvants)
Réservé aux utilisateurs professionnels.

Utilisations déconseillées :
Aucune connue.

1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Nom et adresse de l'entreprise:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Courriel:
info@hygeniq.com

Révision:
14/08/2025

Version de la fiche de données de sécurité:
2.0

Date de la précédente édition:
28/07/2025 (1.0)

1.4. Numéro d'appel d'urgence

Centre Antipoisons: +32 (0) 70 245 245 (7 jours sur 7, 24 heures sur 24)
Voir la rubrique 4 concernant premiers secours.

RUBRIQUE 2: IDENTIFICATION DES DANGERS

Classée conformément au règlement (CE) n° 1272/2008 (CLP).

2.1. Classification de la substance ou du mélange

Met. Corr. 1; H290, Peut être corrosif pour les métaux.

Skin Corr. 1A; H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.

Eye Dam. 1; H318, Provoque de graves lésions des yeux.

2.2. Éléments d'étiquetage

Pictogramme(s) de danger:



Mention d'avertissement:

Danger

Mention(s) de danger:

Peut être corrosif pour les métaux. (H290)

Provoque de graves brûlures de la peau et de graves lésions des yeux. (H314)

Conseil(s) de prudence:

▼ Générales:

Sans objet.

Précautions:

Ne pas respirer les vapeurs/brouillards. (P260)

Porter un équipement de protection des yeux/ des gants de protection/des vêtements de protection. (P280)

▼ Intervention:

EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés.

Rincer la peau à l'eau ou se doucher. (P303+P361+P353)

EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

(P305+P351+P338)

Appeler immédiatement un CENTRE ANTIPOISON/un médecin. (P310)

Stockage:

Stocker dans un récipient avec doublure intérieure. (P406)

Élimination:

Éliminer le contenu/récipient conformément à la réglementation locale (P501)

Contient:

hydroxyde de potassium;potasse caustique

hydroxyde de sodium

soude caustique

Autre étiquetage:

UFI : EMGV-AVQ8-YF2J-F4QE

2.3. Autres dangers

Autre:

Ce mélange/produit ne contient aucune substance considérée comme répondant aux critères de classification comme PBT et/ou vPvB.

Ce produit ne contient aucune substance considérée comme étant un perturbateur endocrinien conformément aux critères définis dans le règlement délégué (UE) 2017/2100 ou le règlement (UE) 2023/707 de la Commission.

RUBRIQUE 3: COMPOSITION/INFORMATIONS SUR LES COMPOSANTS

3.1. Substances

Sans objet. Ce produit est un mélange.

3.2. ▼ Mélanges

Produit/composant	Identifiants	% w/w	Classification	Note
hydroxyde de potassium;potasse caustique	N° CAS : 1310-58-3 N° CE: 215-181-3 REACH: N° index : 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hydroxyde de sodium soude caustique	N° CAS : 1310-73-2 N° CE: 215-185-5 REACH: 01-2119457892-27-XXXX N° index : 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Le texte intégral des phrases H se trouve dans la rubrique 16. Les limites d'exposition professionnelle sont indiquées dans la rubrique 8, à condition d'être disponibles

Autres informations

-

RUBRIQUE 4: PREMIERS SECOURS

4.1. Description des mesures de premiers secours

Généralités:

En cas d'accident : Contactez un médecin ou l'hôpital ou Centre Antipoisons: +32 (0) 70 245 245 (7 jours sur 7, 24 heures sur 24), apportez l'étiquette ou bien la présente fiche de données de sécurité.

En cas de symptômes persistants ou en cas de doute concernant l'état de la personne blessée, faites appel à un médecin. Ne donnez jamais à boire de l'eau ou autre liquide à une personne ayant perdu connaissance.

Inhalation:

En cas de difficultés respiratoires ou d'irritation des voies respiratoires : Amenez la personne à l'air frais et gardez la personne sous surveillance.

Contact cutané:

Rincez la zone exposée à l'eau pendant une longue période - au moins 30 minutes. Il peut être nécessaire de rincer pendant plusieurs heures. Utilisez une température d'eau confortable (20-30 °C). Contactez le service antipoison/le médecin/l'hôpital pour obtenir des conseils supplémentaires sur le suivi et le traitement.

Retirez immédiatement les vêtements et chaussures contaminés. Lavez soigneusement avec de l'eau et du savon la peau qui a été en contact avec le produit. Des produits nettoyants domestiques peuvent être utilisés. N'utilisez PAS de produits solvants ou de diluants.

En cas d'irritation cutanée: consulter un médecin.

Contact visuel:

En cas de contact avec les yeux: Rincez aussitôt les yeux avec de grandes quantités d'eau (20-30 °C) pendant au moins 30 minutes et continuez jusqu'à ce que l'irritation cesse. Retirez les éventuelles lentilles de contact. Assurez-vous de bien rincer sous la paupière supérieure et sous la paupière inférieure. Faites aussitôt appel à un médecin. Consultez un médecin immédiatement et continuez de rincer pendant le trajet.

Ingestion:

En cas d'ingestion, contactez immédiatement un médecin. Donnez au blessé de l'eau à boire si la personne est consciente. N'essayez JAMAIS de faire vomir à moins que le médecin ne le recommande. Maintenez la tête tournée vers le bas de manière à ce que le vomi ne revienne pas dans la bouche et la gorge. Prévenez les chocs en gardant le blessé au chaud et au calme. Pratiquez la respiration artificielle si la respiration s'arrête. En cas d'évanouissement; mettez le blessé en position latérale de sécurité. Appelez une ambulance.

Brûlure:

Sans objet.

4.2. Principaux symptômes et effets, aigus et différés

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau. L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

4.3. Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

EN CAS d'exposition prouvée ou suspectée:
Consulter immédiatement un médecin.

Informations pour le médecin

Apportez la présente fiche de données de sécurité ou l'étiquette du produit.

RUBRIQUE 5: MESURES DE LUTTE CONTRE L'INCENDIE

5.1. Moyens d'extinction

Sans objet.

5.2. Dangers particuliers résultant de la substance ou du mélange

Le feu va dégager une épaisse fumée. L'exposition aux produits de décomposition représente un danger pour la santé. Les récipients fermés exposés au feu sont refroidis avec de l'eau. Ne laissez pas de l'eau ayant servi à éteindre l'incendie s'écouler dans les égouts et les cours d'eau.

Si le produit est exposé à de hautes températures, par exemple en cas d'incendie, de dangereux produits gazeux de décomposition peuvent être créés. Il s'agit de :

Certains oxydes de métal

5.3. Conseils aux pompiers

Portez une combinaison d'intervention normale et une protection respiratoire complète afin d'éviter tout contact.

RUBRIQUE 6: MESURES À PRENDRE EN CAS DE DISPERSION ACCIDENTELLE

6.1. Précautions individuelles, équipement de protection et procédures d'urgence

Évitez le contact direct avec le produit répandu.

Assurer une ventilation adéquate, en particulier dans les espaces confinés.

Les zones contaminées peuvent être glissantes.

6.2. Précautions pour la protection de l'environnement

Ne déversez pas dans les lacs, les ruisseaux, les égouts, etc.

Tenir les personnes non autorisées éloignées du déversement.

6.3. Méthodes et matériel de confinement et de nettoyage

Contenez et collectez les déversements avec un matériau absorbant non combustible, par exemple du sable, de la terre, de la vermiculite ou de la terre de diatomées, et placez-les dans un récipient pour les éliminer conformément aux réglementations locales.

Nettoyez autant que possible avec des produits de nettoyage ordinaires. Évitez les solvants.

6.4. Référence à d'autres rubriques

Voir la rubrique 13 "Considérations relatives à l'élimination" sur la manipulation des déchets.

Voir la rubrique 8 "Contrôles de l'exposition/protection individuelle" pour les mesures de protection.

RUBRIQUE 7: MANIPULATION ET STOCKAGE

7.1. Précautions à prendre pour une manipulation sans danger

Éviter le contact direct avec le produit.

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Voir la rubrique 8 «Contrôles de l'exposition/protection individuelle» pour des renseignements sur les dispositifs de protection individuelle.

7.2. Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

Les récipients ayant été ouverts doivent être refermés avec soin et maintenus en position verticale afin d'éviter les fuites.

Stocker dans un récipient avec doublure intérieure.

Les compatibilités en matière de conditionnement:

Conserver uniquement dans l'emballage d'origine.

Conditions de stockage:

Sec, frais et bien ventilé

Matières incompatibles:

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

7.3. Utilisation(s) finale(s) particulière(s)

Ce produit doit être utilisé exclusivement pour les applications décrites la rubrique 1.2.

RUBRIQUE 8: CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE

8.1. Paramètres de contrôle

hydroxyde de potassium;potasse caustique

Valeur à court terme (15 minutes) (VLCT ou VLE) (mg/m³): 2

Observations:

M = Lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.

hydroxyde de sodium

soude caustique

Valeur limite (8 heures) (VLEP) (mg/m³): 2

Observations:

M = Lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage.

Liste de valeurs limites d'exposition aux agents chimiques (L'AR du mai 2021).

DNEL

hydroxyde de potassium;potasse caustique

Durée :	Voie d'exposition :	DNEL :
Effets locaux à long terme - population globale	Inhalation	1 mg/m ³
Effets locaux à long terme - Travailleurs	Inhalation	1 mg/m ³

hydroxyde de sodium
soude caustique

Durée :	Voie d'exposition :	DNEL :
Effets systématiques à long terme - population globale	Cutanée	2 %
Effets systématiques à long terme - Travailleurs	Cutanée	<2 %
Effets locaux à long terme - population globale	Inhalation	1 mg/m ³
Effets locaux à long terme - Travailleurs	Inhalation	1 mg/m ³

PNEC

hydroxyde de sodium
soude caustique

Voie d'exposition :	Durée d'exposition :	PNEC :
Eau de mer		0.64 mg/L
Eau douce		6.4 mg/L
Emission intermittente		3.1 mg/L
Installation de traitement des eaux usées		51 mg/L
Rejets intermittents (eau de marines)		2.3 mg/kg TG
Sédiments en eau douce		23 mg/kg TG
Sol		0.853 mg/kg TG

8.2. Contrôles de l'exposition

Le respect des valeurs limites indiquées doit être contrôlé régulièrement.

Précautions générales:

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Scénarios d'exposition:

Aucun scénario d'exposition n'est mis en œuvre pour ce produit.

Limite d'exposition:

Les utilisateurs professionnels sont concernés par la législation sur l'environnement de travail qui concerne les concentrations maximales auxquelles il est permis d'être exposé. Voir les valeurs limites d'hygiène de travail indiquées ci-dessus.

Mesures techniques:

La formation de vapeur doit être minimale et rester sous les valeurs limites actuelles (voir ci-dessus). Si l'aération n'est pas suffisante dans la pièce, l'installation d'un système local de ventilation est recommandée. Assurez-vous que les douches oculaires et les douches d'urgence sont clairement indiquées.

S'assurer que les postes de rinçage oculaire et les douches de décontamination sont facilement accessibles. Suivez les précautions habituelles quand vous utilisez le produit. Évitez de respirer les vapeurs.

Mesures d'hygiène:

A chaque pause lors de l'utilisation du produit et une fois le travail terminé, les parties exposées du corps doivent être lavées. Porter une attention particulière aux mains, aux avant-bras et au visage.

Mesures pour la limitation de l'exposition à l'environnement:

Assurez-vous que des matériaux de retenue se trouvent à proximité du poste de travail. Collectez les déperditions si possible au cours du travail.

Mesures de protection individuelle, telles que les équipements de protection personnelle

Généralités:

Utilisez exclusivement des équipements de protection comportant la marque CE.

Équipements respiratoires:

Type	Classe	Couleur	Normes	
Aucune protection respiratoire n'est requise en cas de ventilation adaptée				

Protection de la peau:

Recommandé	Type/Catégorie	Normes	
Utilisez des vêtements de travail dédiés	-	-	

Protection des mains:

Situation de travail	Matériel	Épaisseur minimum (mm)	Délai de rupture (min.)	Normes	
En cas d'exposition prolongée ou de concentration élevée	Caoutchouc nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
En cas d'exposition de courte durée ou de faible concentration	Caoutchouc nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Protection des yeux:

Type	Normes	
Porter des lunettes de sécurité avec protections latérales.	EN166	

RUBRIQUE 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

9.1. Informations sur les propriétés physiques et chimiques essentielles

Etat physique:

Liquide

Couleur:

Jaune pâle

▼ *Odeur / Seuil olfactif (ppm):*

Doux

pH:

13.5

Densité (g/cm³):

1,29 (20 °C)

Viscosité cinématique:

Aucune information disponible.

Caractéristiques des particules:

Ne s'applique pas aux liquides.

Changement d'état

Point de fusion/point de congélation (°C):

Aucune information disponible.

Le point/l'intervalle de ramollissement (°C):

Ne s'applique pas aux liquides.

Point d'ébullition (°C):

100

Pression de vapeur:

Aucune information disponible.

Densité de vapeur relative :

Aucune information disponible.

Température de décomposition (°C):

Aucune information disponible.

Informations concernant les risques d'explosion et d'incendie

Point d'éclair (°C):

Aucune information disponible.

Inflammabilité (°C):

Aucune information disponible.

Température d'auto-inflammation (°C):

Aucune information disponible.

Limite d'explosivité (% v/v):

Aucune information disponible.

Solubilité

Solubilité dans l'eau:

Complètement soluble

n-octanol/coefficient d'eau (LogKow):

Aucune information disponible.

Solubilité dans la graisse (g/L):

Aucune information disponible.

9.2. Autres informations

D'autres paramètres physiques et chimiques:

Aucune information disponible.

Capacités oxydantes:

Aucune information disponible.

RUBRIQUE 10: STABILITÉ ET RÉACTIVITÉ

10.1. Réactivité

Aucune information disponible.

10.2. Stabilité chimique

Le produit est stable dans les conditions indiquées à la rubrique 7 (Manipulation et stockage).

10.3. Possibilité de réactions dangereuses

Aucune connue.

10.4. Conditions à éviter

Aucune connue.

10.5. Matières incompatibles

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

10.6. Produits de décomposition dangereux

La décomposition thermique peut produire des vapeurs corrosives.

RUBRIQUE 11: INFORMATIONS TOXICOLOGIQUES

11.1. Informations sur les classes de danger telles que définies dans le règlement (CE) n° 1272/2008

Toxicité aiguë

Produit/composant	hydroxyde de potassium;potasse caustique
Espèce :	Rat, mâle
Voie d'exposition :	Orale
Test :	DL50
Valeur :	333 - 388 mg/kg

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	45.4 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Lapin
Test :	LD lo
Valeur :	500 mg/kg

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Corrosion cutanée/irritation cutanée

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Très irritant)

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Effets nocifs observés (Corrosif)

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	Effets nocifs observés (Irritant)

Provoque de graves brûlures de la peau et de graves lésions des yeux.

Lésions oculaires graves/irritation oculaire

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Provoque de graves lésions des yeux)

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Effets nocifs observés (Très corrosif)

Produit/composant	hydroxyde de sodium soude caustique
Méthode d'essai :	OCDE 405
Espèce :	Lapin
Valeur :	Effets nocifs observés (Corrosif)

Provoque de graves lésions des yeux.

Sensibilisation respiratoire

Produit/composant	hydroxyde de potassium;potasse caustique

Valeur : Aucun effet nocif observé (pas sensibilisant)

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Sensibilisation cutanée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Mutagenicité sur les cellules germinales

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Cancérogénicité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité pour la reproduction

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles — exposition unique

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles – exposition répétée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Danger par aspiration

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

11.2. Informations sur les autres dangers

Effets sur le long terme

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau. L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

Propriétés perturbant le système endocrinien

Ce mélange/produit ne contient aucune substance considérée comme ayant des propriétés qui provoquent des troubles hormonaux vis-à-vis de la santé.

Autres informations

Aucune connue.

RUBRIQUE 12: INFORMATIONS ÉCOLOGIQUES

12.1. Toxicité

Produit/composant	iT.33 laundry booster pro
Espèce :	Andere waterorganismen, Leuciscus idus
Milieu environnemental :	Eau
Durée :	96 heures
Test :	CL50
Valeur :	>100 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Bactéries, Pseudomonas putida
Test :	CE0
Valeur :	>100 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Daphnie, Ceriodaphnia dubia
Durée :	48 heures

Valeur : 40.4 mg/L

Produit/composant : hydroxyde de sodium
soude caustique
Méthode d'essai : OCDE 203
Espèce : Poisson, *Oncorhynchus mykiss*
Durée : 96 heures
Test : CL50
Valeur : 45.4 mg/L

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.2. Persistance et dégradabilité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.3. Potentiel de bioaccumulation

Produit/composant : hydroxyde de sodium
soude caustique
Conclusion : Il n'est pas prévu de bioaccumulation

12.4. Mobilité dans le sol

Aucune information disponible.

12.5. Résultats des évaluations PBT et vPvB

Ce mélange/produit ne contient aucune substance considérée comme répondant aux critères de classification comme PBT et/ou vPvB.

12.6. Propriétés perturbant le système endocrinien

Ce mélange/produit ne contient pas de composants considérés comme ayant des propriétés perturbatrices du système endocrinien

12.7. Autres effets néfastes

Aucune connue.

RUBRIQUE 13: CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

13.1. Méthodes de traitement des déchets

Le produit est couvert par la réglementation sur les déchets dangereux. (*)

HP 8 - Corrosif

Éliminer le contenu/récipient conformément à la réglementation locale.

Règlement (UE) n° 1357/2014 de la Commission du 18 décembre 2014 relative aux déchets.

Code CED:

20 01 29* Détergents contenant des substances dangereuses

Emballages pollués

Les emballages avec des résidus de produit sont éliminés en suivant les mêmes règles que pour le produit lui-même.

RUBRIQUE 14: INFORMATIONS RELATIVES AU TRANSPORT

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5. Env**	Autres informations :
ADR	UN1719	LIQUIDE ALCALIN CAUSTIQUE, N.S.A. (hydroxyde de potassium;potasse caustique, hydroxyde de sodium soude caustique)	Classe: 8 Étiquettes: 8 Code de classification: C5	II	Non	Quantités limitées: 1 L Code de

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5. Env**	Autres informations :
						restriction en tunnels: (E) Voir ci-dessous pour plus d'informations.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Quantités limitées: 1 L EmS: F-A S-B Voir ci-dessous pour plus d'informations.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Voir ci-dessous pour plus d'informations.

* Groupe d'emballage

** Dangers pour l'environnement

Autre

Le produit est concerné par les conventions sur les marchandises dangereuses.

ADR / Voir tableau A, section 3.2.1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport. Voir la section 5.4.3, pour les instructions écrites concernant l'atténuation des dommages en cas d'incidents ou d'accidents pendant le transport.

IMDG / Voir section 3.2.1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

IATA / Voir tableau 4.2 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

14.6. Précautions particulières à prendre par l'utilisateur

Sans objet.

14.7. Transport maritime en vrac conformément aux instruments de l'OMI

Aucune information disponible.

RUBRIQUE 15: INFORMATIONS RELATIVES À LA RÉGLEMENTATION

15.1. Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

Limites d'utilisation:

Réservé aux utilisateurs professionnels.

Les jeunes de moins de 18 ans ne doivent pas être exposés au produit.

Demandes de formation spécifique:

Pas d'exigences particulières.

Protection contre les accidents majeurs - Categories / Substances dangereuses désignées:

Sans objet.

Autre:

Sans objet.

Sources:

3 MAI 1999. - Arrêté royal relatif à la protection des jeunes au travail.

Règlement (CE) n° 648/2004 du Parlement européen et du Conseil du 31 mars 2004 relatif aux détergents.

Règlement (UE) n° 1357/2014 de la Commission du 18 décembre 2014 relative aux déchets.

Règlement (CE) n° 1272/2008 du Parlement européen et du Conseil du 16 décembre 2008 relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges (CLP).

Règlement (CE) n° 1907/2006 du Parlement européen et du Conseil du 18 décembre 2006 concernant l'enregistrement, l'évaluation et l'autorisation des substances chimiques, ainsi que les restrictions applicables à ces substances (REACH).

15.2. Évaluation de la sécurité chimique

Non

RUBRIQUE 16: AUTRES INFORMATIONS

Précisions sur les phrases H dont il est question dans la rubrique 3

H290, Peut être corrosif pour les métaux.

H302, Nocif en cas d'ingestion.

H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.

H315, Provoque une irritation cutanée.

H318, Provoque de graves lésions des yeux.

H319, Provoque une sévère irritation des yeux.

Abréviations et acronymes

ADN = Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure

ADR = L'Accord européen relatif au transport international des marchandises Dangereuses par Route

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CVI = Conteneurs en Vrac Intermédiaires

CLP = Règlement 1272/2008/CE relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges

COV = Composés Organiques Volatils

CPSE = Concentration Prédite Sans Effet

CSA = Evaluation de la Sécurité Chimique

CSR = Rapport sur la Sécurité Chimique

DMEL = Dose dérivée avec effet minimum

DNEL = Dose dérivée sans effet

ds = les déchets spéciaux

EINECS = Inventaire européen des substances chimiques commerciales existantes

ETA = Estimation de la Toxicité Aiguë

EuPCS = Système européen de catégorisation des produits

FBC = Facteur de Bioconcentration

Mention EUH = mention de danger spécifique CLP

IARC = Le Centre international de Recherche sur le Cancer (CIRC)

IATA = Association Internationale du Transport Aérien

code IMDG = code maritime international des marchandises dangereuses

LogK_{ow} = Coefficient de partage octanol/eau

MARPOL = Convention internationale pour la prévention de la pollution par les navires de 1973, telle que modifiée par le Protocole de 1978. ("MARPOL" = pollution maritime)

NU = Nations Unies

OCDE = Organisation de Coopération et de Développement Economiques

PBT = Persistantes, Bioaccumulables et Toxiques

PRP = Le potentiel de réchauffement planétaire

REACH = Règlement sur l'enregistrement, l'évaluation, l'autorisation et les restrictions des substances chimiques [Règlement (CE) N° 1907/2006]

RID = Règlement concernant le transport International ferroviaire des marchandises Dangereuses

RRN = Numéro d'enregistrement REACH

sc = les autres déchets soumis à contrôle

scd = autres déchets soumis à contrôle qui nécessitent un document de suivi

SCL = Limite de concentration spécifique (LCS).

SE = Scenario d'Exposition

SGH = Système Général Harmonisé de classification et d'étiquetage des produits chimiques

SVHC = Substances extrêmement préoccupantes

TDAA = Température de décomposition auto-accélérée

vPvB = Très Persistant et très Bioaccumulable

TSOC-ER = Toxicité Spécifique pour certains Organes Cibles - Exposition Répétée

TSOC-EU = Toxicité Spécifique pour certains Organes Cibles - Exposition Unique

TWA = Moyenne pondérée dans le temps

UVBC = Substances de composition inconnue ou variable, produits de réaction complexes ou matières biologiques

Autre

La classification du mélange au regard des risques pour la santé est conforme aux méthodes de calcul fournies par le Règlement (CE) n° 1272/2008.

Validé par

Quality & Compliance

Autre

Les modifications par rapport à la dernière révision importante (premiers chiffres dans la fiche, voir rubrique 1) de cette fiche de données de sécurité sont repérées par un triangle.

Les informations de la présente fiche de données de sécurité sont seulement valables pour ce produit (indiqué à la rubrique 1) et ne sont pas nécessairement valables pour l'utilisation d'autres produits/produits chimiques.

Il est recommandé de donner cette fiche de données de sécurité à l'utilisateur effectif du produit. Les informations de ce document ne peuvent pas être utilisées comme spécification du produit.

Pays-langue : BE-fr

VEILIGHEIDSINFORMATIEBLAD

iT.33 laundry booster pro

RUBRIEK 1: IDENTIFICATIE VAN DE STOF OF HET MENGSEL EN VAN DE VENNOOTSCHAP/ONDERNEMING

1.1. Productidentificatie

Handelsnaam:

iT.33 laundry booster pro

Unieke formule-identificatie (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Relevant geïdentificeerd gebruik van de stof of het mengsel:

Was- en reinigingsmiddelen (inclusief op oplosmiddelbasis)

Uitsluitend voor gebruik door professionele gebruiker.

Ontraden gebruik :

Niet bekend.

1.3. Details betreffende de verstrekker van het veiligheidsinformatieblad

Firmanaam en adres:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mailadres:

info@hygeniq.com

Herziening:

14/08/2025

SDS-versie:

2.0

Datum vorige uitgave:

28/07/2025 (1.0)

1.4. Telefoonnummer voor noodgevallen

Antigifcentrum: +32 (0) 70 245 245 (elke dag, 24 op 24 uur)

Zie rubriek 4 over eerstehulpmaatregelen.

RUBRIEK 2: IDENTIFICATIE VAN DE GEVAREN

Geclassificeerd overeenkomstig Voorschrift (EC) Nr. 1272/2008 (CLP).

2.1. Indeling van de stof of het mengsel

Met. Corr. 1; H290, Kan bijtend zijn voor metalen.

Skin Corr. 1A; H314, Veroorzaakt ernstige brandwonden en oogletsel.

Eye Dam. 1; H318, Veroorzaakt ernstig oogletsel.

2.2. Etiketteringselementen

Gevarenpictogram(men):



Signaalwoord:

Gevaar

Gevarenaanduidingen:

Kan bijtend zijn voor metalen. (H290)

Veroorzaakt ernstige brandwonden en oogletsel. (H314)

Veiligheidsaanbevelingen:

▼ Algemeen:

Niet van toepassing.

Preventie:

damp/nevel niet inademen. (P260)

oogbescherming/Beschermende handschoenen/Beschermende kleding dragen. (P280)

▼ Reactie:

BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen of afdouchen. (P303+P361+P353)

BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen. (P305+P351+P338)

Onmiddellijk een ANTIGIFCENTRUM/arts raadplegen. (P310)

Opslag:

In houder met corrosiebestendige binnenbekleding bewaren. (P406)

Verwijdering:

Inhoud/verpakking afvoeren naar overeenkomstig de plaatselijke voorschriften (P501)

Stoffen waarvoor meldingsplicht geldt:

kaliumhydroxide

natriumhydroxide

Andere opmerkingen:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Andere gevaren

Overig:

Dit mengsel/product bevat geen stoffen die aan de criteria voldoen om ze als PBT en/of zPzB te classificeren.

Dit product bevat geen stoffen die worden beschouwd als hormoonverstorende stoffen volgens de criteria van Gedelegeerde Verordening (EU) 2017/2100 van de Commissie of Verordening (EU) 2023/707 van de Commissie.

RUBRIEK 3: SAMENSTELLING EN INFORMATIE OVER DE BESTANDDELEN

3.1. Stoffen

Niet van toepassing. Dit product is een mengsel.

3.2. ▼ Mengsels

Product / ingrediënt	Identificatiemogelijkheden	% w/w	Classificatie	Opm.
kaliumhydroxide	CAS Nr.: 1310-58-3 EG Nr: 215-181-3 REACH: Catalogusnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natriumhydroxide	CAS Nr.: 1310-73-2 EG Nr: 215-185-5 REACH: 01-2119457892-27-XXXX Catalogusnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

De volledige tekst van de gevarenaanduidingen staat in rubriek 16. Arbeidshygiënische grenswaarden zijn genoemd in rubriek 8, voor zover ze van toepassing zijn.

Andere informatie

-

RUBRIEK 4: EERSTEHULPMAATREGELEN

4.1. Beschrijving van de eerstehulpmaatregelen

Algemeen:

Bij ongelukken: Contacteer een arts of het Antigifcentrum: +32 (0) 70 245 245 (elke dag, 24 op 24 uur). Neem het etiket van het product of dit veiligheidsblad mee.

Bij aanhoudende symptomen of twijfel over de toestand van het slachtoffer moet er een arts ingeschakeld worden. Geef een bewusteloze persoon nooit water of iets dergelijks.

Bij inademen:

Als men moeilijkheden vaststelt tijdens de ademhaling of irritatie van de luchtwegen: Breng de persoon naar buiten en houd hem in de gaten.

Bij huidcontact:

Spoel het blootgestelde gebied gedurende lange tijd, minstens 30 minuten, met water. Het kan nodig zijn om gedurende enkele uren te spoelen. Gebruik een comfortabele watertemperatuur (20-30 °C). Neem contact op met Het Antigifcentrum/arts/ziekenhuis voor verder advies over opvolging en behandeling.

Verwijder verontreinigde kleding en schoenen. Huid, die in contact is geweest met het materiaal grondig wassen met water en zeep, eventueel huidreinigingsmiddel gebruiken. Gebruik GEEN oplosmiddelen of verdunners.

Bij huidirritatie: een arts raadplegen.

Bij oogcontact:

Bij contact met de ogen: Spoel de ogen direct uit met een ruime hoeveelheid water (20-30 °C) tot de irritatie ophoudt en minstens 30 minuten. Verwijder eventuele contactlenzen. Spoel ook onder het bovenste en onderste ooglid. Bel meteen een arts. Raadpleeg onmiddellijk een arts en blijf spoelen tijdens het transport naar de arts.

Bij inslikken:

Bij inslikken: neem direct contact op met een arts. Geef het slachtoffer water te drinken als de persoon bij bewustzijn is. Probeer NIET het slachtoffer te laten braken, behalve als de arts dat adviseert. Laat het hoofd zakken zodat er geen braaksel terugloopt in mond of hals. Voorkom shock door het slachtoffer warm en rustig te houden. Geef kunstmatige ademhaling als de ademhaling stopt. Bij bewusteloosheid: breng het slachtoffer naar een aparte afgesloten ruimte. Bel een ambulance.

Bij verbranding:

Niet van toepassing.

4.2. Belangrijkste acute en uitgestelde symptomen en effecten

Weefsel vernietigende bijwerking: Het product bevat stoffen die bijtend zijn. Als damp of aerosolen worden ingeademd, kan dit schade brengen aan de longen en irritatie en een branderig gevoel veroorzaken in de luchtwegen alsmede hoesten. Bijtende stoffen kunnen irreversibele beschadigingen veroorzaken aan de ogen. Bijt in de huid.

4.3. Vermelding van eventueel noodzakelijke onmiddellijke medische verzorging en speciale behandeling

NA (mogelijke) blootstelling:

Onmiddellijk een arts raadplegen.

Informatie voor de arts

Neem dit veiligheidsblad met of het etiket van het materiaal gegevens mee.

RUBRIEK 5: BRANDBESTRIJDINGSMAATREGELEN

5.1. Blusmiddelen

Niet van toepassing.

5.2. Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Brand zal dichte rook ontwikkelen. Blootstelling aan afbraakproducten kan een gevaar voor de gezondheid opleveren. Gesloten houders die blootgesteld worden aan vuur, afkoelen met water. Laat het bluswater niet in riolering of waterleiding weglopen.

Als het product wordt blootgesteld aan hoge temperaturen, bv. in situaties van brand, kunnen er gevaarlijke afbraakproducten ontstaan. Deze zijn:

Enkele metaaloxiden

5.3. Advies voor brandweerlieden

Normaal uniform en volledige ademhalingsbescherming. Als er blootstelling is opgetreden, neem dan contact op met Antigifcentrum: +32 (0) 70 245 245 (elke dag, 24 op 24 uur).

RUBRIEK 6: MAATREGELEN BIJ HET ACCIDENTEEL VRIJKOMEN VAN DE STOF OF HET MENGSEL

6.1. Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Vermijd direct contact met gemorste stof.

Zorg voor voldoende ventilatie, vooral in afgesloten ruimten.

Verontreinigde gebieden kunnen glad zijn.

6.2. Milieuvorzorgsmaatregelen

Voorkom weglopen naar meren, rivieren, riolering, e.d.

Houd onbevoegden uit de buurt van het gemorste product.

6.3. Insluitings- en reinigingsmethoden en -materiaal

Verzamel gemorst materiaal met onbrandbaar, absorberend materiaal, bijvoorbeeld zand, aarde, vermiculiet of diatomeeënaarde en doe het in een container voor verwijdering volgens de lokale voorschriften.

Schoonmaken wordt voor zover mogelijk met schoonmaakmiddelen gedaan. Vermijd oplosmiddelen.

6.4. Verwijzing naar andere rubrieken

Zie het rubriek "Instructies voor verwijdering" over hoe om te gaan met afval.

Zie het rubriek over 8 "Maatregelen ter beheersing van blootstelling/persoonlijke bescherming" voor beschermingsregelingen.

RUBRIEK 7: HANTERING EN OPSLAG

7.1. Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Vermijd direct contact met het product.

Roken, eten en drinken is niet toegestaan in arbeidslokalen.

Zie de rubriek "Maatregelen ter beheersing van blootstelling/persoonlijke bescherming" voor informatie over persoonlijke bescherming.

7.2. Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

Containers die zijn geopend dienen zorgvuldig te worden afgesloten en rechtop te worden opgeslagen om lekkage te voorkomen.

In houder met corrosiebestendige binnenbekleding bewaren.

Compatibele verpakkingen:

Uitsluitend in de oorspronkelijke verpakking bewaren.

Opslag condities:

Droog, koel en goed geventileerd

Chemisch op elkaar inwerkende materialen:

Sterke zuren, sterke basen, sterke oxidatiemiddelen en sterke reductiemiddelen.

7.3. Specifiek eindgebruik

Dit product mag alleen worden gebruikt voor de doeleinden zoals beschreven in rubriek 1.2.

RUBRIEK 8: MAATREGELEN TER BEHEERSING VAN BLOOTSTELLING/PERSOONLIJKE BESCHERMING

8.1. Controleparameters

kaliumhydroxide

Kortdurende blootstelling grenswaarde (TGG 15 min) (mg/m³): 2

Opmerkingen:

M = Bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.

natriumhydroxide

Grenswaarde (TGG 8 uur) (mg/m³): 2

Opmerkingen:

M = Bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkprocédé moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.

Lijst van de grenswaarden voor blootstelling aan chemische agentia (KB van mei 2021).

DNEL

kaliumhydroxide

Duur:	Blootstellingsroute:	DNEL:
Lange termijn - Lokale effecten - Algehele populatie	Inademing	1 mg/m ³
Lange termijn - Lokale effecten - Arbeiders	Inademing	1 mg/m ³

natriumhydroxide

Duur:	Blootstellingsroute:	DNEL:
Lange termijn - Lokale effecten - Algehele populatie	Inademing	1 mg/m ³

Lange termijn - Lokale effecten - Arbeiders	Inademing	1 mg/m ³
Lange termijn - Systemische effecten - Algehele populatie	Via de huid	2 %
Lange termijn - Systemische effecten - Arbeiders	Via de huid	<2 %

PNEC

natriumhydroxide

Blootstellingsroute:	Blootstellingsduur:	PNEC:
Aarde		0.853 mg/kg TG
Afvalwaterzuiveringsinstallatie		51 mg/L
Intermitterende vrijlating		3.1 mg/L
Intermitterende vrijlating (zeewater)		2.3 mg/kg TG
Zeewater		0.64 mg/L
Zoet water		6.4 mg/L
Zoetwatersediment		23 mg/kg TG

8.2. Maatregelen ter beheersing van blootstelling

Naleving van de aangegeven grenswaarden dient regelmatig gecontroleerd te worden.

Algemene gedragslijnen:

Roken, eten en drinken is niet toegestaan in arbeidslokalen.

Blootstellingsscenario's:

Er zijn geen blootstellingsscenario's geïmplementeerd voor dit product.

Blootstellingslimieten:

Beroepsmatige gebruikers vallen onder de regels van de arbeidsomstandighedenwet betreffende maximum concentratie van exponering. Zie de arbeidshygiënische grenswaarden hierboven.

Technische maatregelen:

De ontwikkeling van dampen moet zo beperkt mogelijk blijven en in elk geval onder de aangegeven grenswaarden (zie hoger). Een lokaal afzuigsysteem is aan te raden als de ventilatie in het lokaal ontoereikend is. Zorg ervoor dat oogspoelmiddel en een doucheslang in geval van nood duidelijk aangegeven zijn.

Zorg ervoor dat oogwasstations en veiligheidsdouches binnen handbereik zijn.

Wees voorzichtig bij het gebruik van het product. Vermijd de inademing van dampen.

Hygiënische maatregelen:

Tijdens elke pauze in het gebruik van het product en na werktijd moeten geëxponeerde lichaamsdelen afgewassen worden. Let vooral op handen, onderarmen en gezicht.

Beheersing van milieublootstelling:

Zorg ervoor dat er bij het werken met het product stuw materiaal in de directe nabijheid aanwezig is. Gebruik zo mogelijk opvangbakken bij het werk.

Individuele beschermingsmaatregelen, zoals persoonlijke beschermingsmiddelen

Algemeen:

Gebruik alleen beschermingsapparatuur met het CE-keurmerk.

Luchtwegen:

Type	Klasse	Kleur	Standaard	
Ademhalingsbescherming is niet vereist indien er voldoende ventilatie is				

Huid en lichaam:

Aanbevolen	Type/Categorie	Normen	
Aanbevolen wordt speciale werkkleding te dragen	-	-	

Handen:

Werksituatie	Materiaal	Minimale laagdikte (mm)	Doorbraaktijd (min.)	Normen	
In het geval van een lange blootstelling of hoge concentraties	Nitril handschoenen	0,4	> 480	EN374-2, EN16523-1, EN388	
In het geval van een korte blootstelling of lage concentraties	Nitril handschoenen	1,5	> 30	EN374-2, EN16523-1, EN388	

Ogen:

Type	Normen	
Draag een veiligheidsbril met zijstukken	EN166	

RUBRIEK 9: FYSISCH EN CHEMISCH EIGENSCHAPPEN

9.1. Informatie over fysische en chemische basiseigenschappen

Fysische toestand:

Vloeibaar

Kleur:

Lichtgeel

▼ *Geur / Geurdrempelwaarde (ppm):*

Zacht

pH:

13,5

Soortelijk gewicht (g/cm³):

1,29 (20 °C)

Kinematische viscositeit:

Geen gegevens beschikbaar.

Deeltjeskenmerken:

Niet van toepassing op vloeistoffen.

Toestandsverandering en damp

Smeltpunt/vriespunt (°C):

Geen gegevens beschikbaar.

Verwekingspunt/verwekingstraject (°C):

Niet van toepassing op vloeistoffen.

Kookpunt (°C):

100

Dampdruk:

Geen gegevens beschikbaar.

Relatieve dampdichtheid:

Geen gegevens beschikbaar.

Ontledingstemperatuur (°C):

Geen gegevens beschikbaar.

Data voor brand- en explosiegevaar

Vlampunt (°C):

Geen gegevens beschikbaar.

Ontvlambaarheid (°C):

Geen gegevens beschikbaar.

Zelfontbrandingstemperatuur (°C):

Geen gegevens beschikbaar.

Ontploffingsgrenzen (% v/v):

Geen gegevens beschikbaar.

Oplosbaarheid

Oplosbaarheid in water:

Volledig oplosbaar

n-octanol/water coëfficiënt (LogKow):

Geen gegevens beschikbaar.

Oplosbaarheid in vet (g/L):

Geen gegevens beschikbaar.

9.2. Overige informatie

Andere fysische en chemische parameters:

Geen gegevens beschikbaar.

Oxiderende eigenschappen:

Geen gegevens beschikbaar.

RUBRIEK 10: STABILITEIT EN REACTIVITEIT

10.1. Reactiviteit

Geen gegevens beschikbaar.

10.2. Chemische stabiliteit

Het product is stabiel onder de voorwaarden die genoemd zijn in de rubriek 7 "Hantering en opslag".

10.3. Mogelijke gevaarlijke reacties

Niet bekend.

10.4. Te vermijden omstandigheden

Niet bekend.

10.5. Chemisch op elkaar inwerkende materialen

Sterke zuren, sterke basen, sterke oxidatiemiddelen en sterke reductiemiddelen.

10.6. Gevaarlijke ontledingsproducten

Thermische ontleding kan corrosieve dampen produceren.

RUBRIEK 11: TOXICOLOGISCHE INFORMATIE

11.1. Informatie over gevarenklassen als omschreven in Verordening (EG) nr. 1272/2008

Acute toxiciteit

Product / ingrediënt	kaliumhydroxide
Soorten:	Rat, mannetje
Blootstellingsroute:	Oraal
Test:	LD50
Resultaat:	333 - 388 mg/kg

Product / ingrediënt	natriumhydroxide
Resultaat:	45.4 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Konijn
Test:	LD lo
Resultaat:	500 mg/kg

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Huidcorrosie/-irritatie

Product / ingrediënt	iT.33 laundry booster pro
Resultaat:	Schadelijke effecten waargenomen (Heel irriterend)

Product / ingrediënt	kaliumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Corrosief)

Product / ingrediënt	natriumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Irriterend)

Veroorzaakt ernstige brandwonden en oogletsel.

Ernstig oogletsel/oogirritatie

Product / ingrediënt	iT.33 laundry booster pro
Resultaat:	Schadelijke effecten waargenomen (Veroorzaakt ernstig oogletsel)

Product / ingrediënt	kaliumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Heel corrosief)

Product / ingrediënt	natriumhydroxide
Testmethode:	OESO 405
Soorten:	Konijn
Resultaat:	Schadelijke effecten waargenomen (Corrosief)

Veroorzaakt ernstig oogletsel.

Sensibilisatie van de luchtwegen

Product / ingrediënt	kaliumhydroxide
Resultaat:	Geen schadelijke effecten waargenomen (niet sensibiliserend)

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Sensibilisatie van de huid

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Mutageniteit in geslachtscellen

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Kankerverwekkend

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Giftigheid voor de voortplanting

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

STOT bij eenmalige blootstelling

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

STOT bij herhaalde blootstelling

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Gevaar bij inademing

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

11.2. Informatie over andere gevaren

Effecten op lange termijn

Weefsel vernietigende bijwerking: Het product bevat stoffen die bijtend zijn. Als damp of aerosolen worden ingeademd, kan dit schade brengen aan de longen en irritatie en een branderig gevoel veroorzaken in de luchtwegen alsmede hoesten. Bijtende stoffen kunnen irreversibele beschadigingen veroorzaken aan de ogen. Bijt in de huid.

Hormoonontregelende eigenschappen

Dit mengsel/product bevat geen stoffen die worden beschouwd als het hebben van hormoonverstorende eigenschappen met betrekking tot de gezondheid.

Overige informatie

Niet bekend.

RUBRIEK 12: ECOLOGISCHE INFORMATIE

12.1. Toxiciteit

Product / ingrediënt	iT.33 laundry booster pro
Soorten:	Andere waterorganismen, <i>Leuciscus idus</i>
Milieucompartiment:	Water
Duur:	96 uur
Test:	LC50
Resultaat:	>100 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Bacterie, <i>Pseudomonas putida</i>
Test:	EC0
Resultaat:	>100 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Watervlo, <i>Ceriodaphnia dubia</i>
Duur:	48 uur
Resultaat:	40.4 mg/L

Product / ingrediënt	natriumhydroxide
Testmethode:	OESO 203
Soorten:	Vis, <i>Oncorhynchus mykiss</i>
Duur:	96 uur
Test:	LC50
Resultaat:	45.4 mg/L

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

12.2. Persistentie en afbreekbaarheid

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

12.3. Bioaccumulatie

Product / ingrediënt	natriumhydroxide

Conclusie: Bioaccumulatie wordt niet verwacht

12.4. Mobiliteit in de bodem

Geen gegevens beschikbaar.

12.5. Resultaten van PBT- en zPzB-beoordeling

Dit mengsel/product bevat geen stoffen die aan de criteria voldoen om ze als PBT en/of zPzB te classificeren.

12.6. Hormoonontregelende eigenschappen

Dit mengsel/product bevat geen stoffen die worden beschouwd als het hebben van endocrien-verstorende eigenschappen met betrekking tot het milieu.

12.7. Andere schadelijke effecten

Niet bekend.

RUBRIEK 13: INSTRUCTIES VOOR VERWIJDERING

13.1. Afvalverwerkingsmethoden

Dit product valt onder de wetgeving inzake gevaarlijke afvalstoffen. (*)

HP 8 - Corrosief

Inhoud/verpakking afvoeren naar overeenkomstig de plaatselijke/regionale/nationale/internationale voorschriften. Verordening (EU) Nr. 1357/2014 van de Commissie van 18 december 2014 betreffende afvalstoffen.

Euralcode:

20 01 29* Detergenten die gevaarlijke stoffen bevatten

Verontreinigde emballage

Verpakking met restinhoud van het product wegwerken volgens dezelfde voorwaarden als het product.

RUBRIEK 14: INFORMATIE MET BETREKKING TOT HET VERVOER

	14.1 VN	14.2 Juiste ladingnaam van de VN	14.3 Transportgevaarenklasse(n)	14.4 PG*	14.5. Env**	Andere informatie :
ADR	UN1719	BIJTENDE ALKALISCHE VLOEISTOF, N.E.G. (kaliumhydroxide, natriumhydroxide)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Gelimiteerd e hoeveelhed en: 1 L Code voor beperkinge n in tunnels: (E) Zie hieronder voor meer informatie.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Gelimiteerd e hoeveelhed en: 1 L EmS: F-A S- B Zie hieronder

	14.1 VN	14.2 Juiste ladingnaam van de VN	14.3 Transportgevaarenklasse(n)	14.4 PG*	14.5. Env**	Andere informatie :
						voor meer informatie.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Zie hieronder voor meer informatie.

* Verpakkingsgroep

** Milieugevaren

Overig

Het product valt onder de conventies voor gevaarlijke goederen.

ADR / Zie tabel A, rubriek 3.2.1, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer. Zie rubriek 5.4.3, voor schriftelijke instructies betreffende het beperken van schade in verband met incidenten of ongevallen tijdens het vervoer.

IMDG / Zie rubriek 3.2.1, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer.

IATA / Zie tabel 4.2, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer.

14.6. Bijzondere voorzorgen voor de gebruiker

Niet van toepassing.

14.7. Zeevervoer in bulk overeenkomstig IMO-instrumenten

Geen gegevens beschikbaar.

RUBRIEK 15: REGELGEVING

15.1. Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

Beperkingen bij gebruik:

Uitsluitend voor gebruik door professionele gebruiker.

Het product mag niet beroepshalve worden gebruikt door personen jonger dan 18 jaar.

Eisen t.o.v. speciale opleidingen:

Geen bijzondere eisen.

SEVESO - Gevaarencategorieën / Gevaarlijke stoffen:

Niet van toepassing.

Overig:

Niet van toepassing.

Bronnen:

3 MEI 1999. - Koninklijk besluit betreffende de bescherming van de jongeren op het werk.

Verordening (EG) nr. 648/2004 van het Europees Parlement en de Raad van 31 maart 2004 betreffende detergentia.

Verordening (EU) Nr. 1357/2014 van de Commissie van 18 december 2014 betreffende afvalstoffen.

Verordening (EG) nr. 1272/2008 van het Europees Parlement en de Raad van 16 december 2008 betreffende de indeling, etikettering en verpakking van stoffen en mengsels (CLP).

Verordening (EG) nr. 1907/2006 van het Europees Parlement en de Raad van 18 december 2006 inzake de registratie en beoordeling van en de autorisatie en beperkingen ten aanzien van chemische stoffen (REACH).

15.2. Chemischeveiligheidsbeoordeling

Nee

RUBRIEK 16: OVERIGE INFORMATIE

De volledige tekst van de H-zinnen genoemd in rubriek 3

H290, Kan bijtend zijn voor metalen.

H302, Schadelijk bij inslikken.

H314, Veroorzaakt ernstige brandwonden en oogletsel.

H315, Veroorzaakt huidirritatie.

H318, Veroorzaakt ernstig oogletsel.

H319, Veroorzaakt ernstige oogirritatie.

Afkortingen en acroniemen

ADN = Europese wetgeving met betrekking tot het vervoer van gevaarlijke goederen over binnewateren

ADR = Europese overeenkomst met betrekking tot het vervoer van gevaarlijke goederen over de weg

ATE = Acute toxiciteitsbeoordeling

BCF = Bioconcentratie Factor

CAS = Chemical Abstracts Service

CE = Conformité européenne

CLP = Indeling, etikettering en verpakking van stoffen en mengsels [Verordening (EG) No. 1272/2008]

CSA = Chemische Veiligheidsbeoordeling

CSR = rapporten over de chemische veiligheid (CSR - Chemical Safety Reports)

DNEL = De afgeleide dosis zonder effect

EAC = Europese Afval Catalogoog

EINECS = European INventory of Existing Commercial Substances

ES = blootstellingsscenario

EUH zin = CLP-specifieke gevaarszin

EuPCS = Europees productindelingssysteem

GHS = Globaal geharmoniseerd systeem voor indeling, kenmerking en etikettering van chemische stoffen en mengsels

GWP = Aardopwarmingsvermogen

IATA = Internationaal Lucht Transport Vereniging

IBC = Tussentijdse bulk container

IMDG = Internationaal Maritiem Transport voor Gevaarlijke goederen

LogPow = Logaritme van de octaan/water partitie coëfficiënt

MARPOL = Internationale conventie voor de preventie van vervuiling door schepen, 1973 en aangepast door het protocol van 1978. ("Marpol" = zee vervuילend)

OESO = Organisatie voor Economische Samenwerking en Ontwikkeling

PBT = Persistent, Bioaccumulatief en Toxisch

PNEC = Voorspelde geen effect concentratie

RID = Regelgeving met betrekking tot het vervoer van gevaarlijke goederen over het spoor

RRN = REACH registratie nummer

SCL = Specifieke concentratielimiet.

SVHC = Zeer zorgwekkende stoffen

STOT-RE = specifieke doelorgaantoxiciteit - herhaalde blootstelling

STOT-SE = specifieke doelorgaantoxiciteit - enkelvoudige blootstelling

TGG = Tijd gewogen gemiddelde

UVBC = Stoffen van onbekende of variabele samenstelling, complexe reactieproducten of biologische materialen.

VN = Verenigde Naties

VOS = Vluchtige Organische Stoffen

zPzB = zeer Persistent en zeer Bioaccumulatief

Overig

De indeling van het stof/mengsel ten aanzien van de gevaren voor de gezondheid in overeenstemming zijn met de berekeningsmethoden die door Verordening (EC) nr 1272/2008 (CLP).

Het veiligheidsinformatieblad is gevalideerd door

Quality & Compliance

Overig

Veranderingen ten opzichte van de vorige belangrijke revisie (eerste cijfer in de SDS-versie, zie rubriek 1) van dit veiligheidsinformatieblad zijn gemarkeerd met een driehoek.

De inlichtingen in dit veiligheidsinformatieblad gelden alleen voor het product genoemd in rubriek 1 en hoeven niet te gelden bij gebruik samen met andere producten.

Het is aan te bevelen dit veiligheidsinformatieblad af te geven aan de eigenlijke gebruiker van het product. De genoemde informatie dient niet als productspecificatie.

Land-taal: BE-nl

ИНФОРМАЦИОНЕН ЛИСТ ЗА БЕЗОПАСНОСТ

iT.33 laundry booster pro

РАЗДЕЛ 1: ИДЕНТИФИКАЦИЯ НА ВЕЩЕСТВОТО/СМЕСТА И НА ДРУЖЕСТВОТО/ПРЕДПРИЯТИЕТО

1.1. Идентификатор на продукта

Търговско наименование:
iT.33 laundry booster pro

Уникален идентификатор на формули (UFI):
EMGV-AVQ8-YF2J-F4QE

1.2. Идентифицирани употреби на веществото или сместа, които са от значение, и употреби, които не се препоръчват

Съответни идентифицирани употреби на веществото или сместа:
Детергенти и почистващи препарати (включително на основата на разтворители)
Само за професионална употреба.

Употреби, които не се препоръчват:
Никой познат.

1.3. Подробни данни за доставчика на информационния лист за безопасност

Компания и адрес:
Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Е-поща:
info@hygeniq.com

Преработено издание:
14.08.2025 г.

SDS версия:
2.0

Дата на предходно издание:
28.07.2025 г. (1.0)

1.4. Телефонен номер при спешни случаи

Национален токсикологичен информационен център, Телефон за спешни случаи: +359 2 9154 233
(www.pirogov.bg)
Вижте раздел 4 "Мерки за първа помощ".

РАЗДЕЛ 2: ОПИСАНИЕ НА ОПАСНОСТИТЕ

Класифицирано съгласно Регламент (ЕО) № 1272/2008 (Класифициране, етиктиране и опаковане).

2.1. Класифициране на веществото или сместа

Met. Corr. 1; H290, Може да бъде корозивно за металите.

Skin Corr. 1A; H314, Причинява тежки изгаряния на кожата и сериозно увреждане на очите.

Eye Dam. 1; H318, Предизвиква сериозно увреждане на очите.

2.2. Елементи на етикета

Пиктограма(и) за опасност:



Сигнална дума:

Опасно

Декларация(и) за опасност:

Може да бъде корозивно за металите. (H290)

Причинява тежки изгаряния на кожата и сериозно увреждане на очите. (H314)

Декларация(и) за безопасност:

▼ Общи:

Не е приложимо.

Предотвратяване:

Не вдишвайте изпарения/влага. (P260)

Използвайте защита на очите/защитни ръкавици/защитно облекло. (P280)

▼ Отговор:

ПРИ КОНТАКТ С КОЖАТА (или косата): незабавно свалете цялото замърсено облекло. Облейте кожата с вода или вземете душ. (P303+P361+P353)

ПРИ КОНТАКТ С ОЧИТЕ: промивайте внимателно с вода в продължение на няколко минути. Свалете контактните лещи, ако има такива и доколкото това е възможно. Продължете с изплакването. (P305+P351+P338)

Незабавно се обадете в ЦЕНТЪР ПО ТОКСИКОЛОГИЯ/доктор. (P310)

Съхранение:

Да се съхранява в съд с устойчива вътрешна облицовка. (P406)

Изхвърляне:

Съдържанието/съдът да се изхвърли в съответствие с мест местната родната уредба (P501)

Идентичност на веществата, основно отговорни за най-големите опасности за здравето:

калиев хидроксид; калиева основа

натриев хидроксид; сода каустик

Допълнително етиктиране:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Други опасности

Допълнителни предупреждения:

Тази смес/продукт не съдържа вещества, считани за отговарящи на критерии, класифициращи ги като PBT и/или vPvB.

Този продукт не съдържа вещества, които се считат за разрушаващи ендокринната система в съответствие с критериите, определени в Делегиран регламент (ЕС) № 2017/2100 на Комисията или Регламент на Комисията (ЕС) № 2023/707.

РАЗДЕЛ 3: СЪСТАВ/ИНФОРМАЦИЯ ЗА СЪСТАВКИТЕ

3.1. Вещества

Не е приложимо. Този продукт е смес.

3.2. ▼ Смеси

Продукт/ингредиент	Идентификатори	% w/w	Класификация	Забележка
калиев хидроксид; калиева основа	CAS №: 1310-58-3 EO №: 215-181-3 REACH: Индекс №: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
натриев хидроксид; сода каустик	CAS №: 1310-73-2 EO №: 215-185-5 REACH: 01-2119457892-27-XXXX Индекс №: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Вижте пълния текст на H-фразите в раздел 16. Ограниченията за излагане в работна среда са посочени в раздел 8, ако същите са налични.

Друга информация

-

РАЗДЕЛ 4: МЕРКИ ЗА ПЪРВА ПОМОЩ

4.1. Описание на мерките за първа помощ

Обща информация:

В случай на инцидент: Свържете се с лекар или отдел за произшествия - вземете етикета или този информационен лист за безопасност.

Свържете се с лекар, ако имате съмнения относно състоянието на пострадалия или ако симптомите продължават. Никога не давайте на човек в безсъзнание вода или други подобни.

Вдишване:

При проблеми с дишането или дразнене на дихателните пътища: При проблеми с дишането или дразнене на дихателните пътища: Отведете лицето на чист въздух и да останете с него.

Контакт с кожата:

Промийте изложената зона с вода продължително време - най-малко 30 минути. Възможно е да се наложи да промивате в продължение на няколко часа. Използвайте приятна температура на водата (20-30 °C). Свържете се с център по токсикология/лекар/болница за допълнителни съвети относно наблюдение и лечение.

Свалете замърсеното облекло и обувки наведнъж. Кожата, която е влязла в контакт с материала трябва да се измие обилно с вода и сапун. Може да се използва препарат за почистване на кожата. НЕ използвайте разтворители и разредители.

При поява на кожно дразнене: Потърсете медицински съвет/помощ.

Контакт с очите:

ПРИ КОНТАКТ С ОЧИТЕ: Изплакнете обилно очите с вода или солена вода (20-30 °C) в продължение на най-малко 30 минути и продължете докато дразненето спре. Свалете контактните лещи. Уверете се, че сте изплакнали под горния и долния клепач. Незабавно потърсете лекарска помощ и продължете да промивате по време на транспортиране.

Поглъщане:

В случай на поглъщане, незабавно се свържете с лекар. Ако лицето е в съзнание, дайте му вода. **ДА НЕ** се предизвиква повръщане, освен ако не е препоръчано от лекар. Дръжте главата обърната надолу, така че ако има повръщане да не изтече обратно в устата и гърлото. Избягнете шока като дръжете пострадалия затоплен и спокоен. Ако лицето спре да диша, направете реанимация уста-в-уста. При изпадане в безсъзнание, завъртете лицето на една страна като горният крак е свит в коленете и хълбока. Извикайте линейка.

Изгаряния:

Не е приложимо.

4.2. Най-съществени остри и настъпващи след известен период от време симптоми и ефекти

Увреждащи тъканта ефекти: Този продукт съдържа вещества, които са корозивни. Ако се вдишат парите или аерозолите, това може да доведе до увреждане на белите дробове, дразнене и изгаряния в дихателните органи, както и кашлица. Разяждащите вещества предизвикват необратими увреждания на очите и киселинни изгаряния на кожата.

4.3. Указание за необходимостта от всякакви неотложни медицински грижи и специално лечение

ПРИ явна или предполагаема експозиция:

Незабавно потърсете медицински съвет/помощ.

Информация за медици

Носете този информационен лист за безопасност или етикета на продукта с вас.

РАЗДЕЛ 5: ПРОТИВОПОЖАРНИ МЕРКИ

5.1. Пожарогасителни средства

Не е приложимо.

5.2. Особени опасности, които произтичат от веществото или сместа

Пожарът ще доведе до гъст дим. Излагането на катаболитни продукти може да увреди вашето здраве.

Затворени контейнери, които са изложени на огън, трябва да се охлаждат с вода. Не позволявайте пожарогасителна вода да тече в канализацията и други водни течения.

Ако продуктът е изложен на високи температури, както и в случай на пожар, опасни катаболитни вещества се произвеждат. Това са:

Някои метални оксиди

5.3. Съвети за пожарникарите

Носете автономен дихателен апарат и защитно облекло за предпазване от контакт.

РАЗДЕЛ 6: МЕРКИ ПРИ АВАРИЙНО ИЗПУСКАНЕ

6.1. Лични предпазни мерки, предпазни средства и процедури при спешни случаи

Да се избягва пряк контакт с разлети вещества.

Осигурете адекватна вентилация, особено в затворени помещения.

Замърсените зони могат да бъдат хлъзгави.

6.2. Предпазни мерки за опазване на околната среда

Избягвайте изтичането в езера, потоци, канали и т.н.

Дръжте неупълномощени лица далеч от разлива

6.3. Методи и материали за ограничаване и почистване

Разливът да се ограничи и събере с помощта на незапалими абсорбиращи материали, напр. пясък, пръст, вермикулит или инфузорна пръст и да се постави в контейнер за изхвърляне съгласно местните разпоредби. Почистването трябва да се направи доколкото е възможно като се използват обикновени почистващи препарати. Разтворители трябва да бъдат избягвани.

6.4. Позоваване на други раздели

Вижте раздел 13 "Обезвреждане на отпадъците" по отношение на обработката на отпадъците.

Вижте раздел 8 "Контрол на експозицията/лични предпазни средства" за защитни мерки.

РАЗДЕЛ 7: РАБОТА И СЪХРАНЕНИЕ

7.1. Предпазни мерки за безопасна работа

Да се избягва пряк контакт с продукта.

Пушенето, консумацията на храна или течности, както и съхранението на тютюн, храна или течности, не са позволени в работните помещения.

Вижте раздел "Контрол на експозицията/лични предпазни средства" за информация за лична защита.

7.2. Условия за безопасно съхраняване, включително несъвместимости

Контейнерите, които са били отворяни, трябва внимателно да се запечатат отново и да се съхраняват в изправено положение, за да не се допусне разлив.

Да се съхранява в съд с устойчива вътрешна облицовка.

Съвместимостта на опаковките:

Да се съхранява само в оригиналната опаковка.

Условия за съхранение:

Сухо, хладно и добре проветрено

Несъвместими материали:

Силни киселини, силни основи, силни окислителни, силни редуциращи агенти.

7.3. Специфична(и) крайна(и) употреба(и)

Този продукт трябва да се използва само за приложения, описани в раздел 1.2.

РАЗДЕЛ 8: КОНТРОЛ НА ЕКСПОЗИЦИЯТА/ЛИЧНИ ПРЕДПАЗНИ СРЕДСТВА

8.1. Параметри на контрол

калиев хидроксид;калиева основа

Гранични стойности (8 часа) (mg/m³): 2,0

натриев хидроксид;сода каустик

Гранични стойности (8 часа) (mg/m³): 2,0

Наредба № 13 от 2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа

DNEL

калиев хидроксид;калиева основа

Продължителност:	Маршрут на експозиция:	DNEL:
Дълготрайна - локални ефекти - работници	Вдишване	1 mg/m ³
Дълготрайна - локални ефекти - цялото население	Вдишване	1 mg/m ³

натриев хидроксид;сода каустик

Продължителност:	Маршрут на експозиция:	DNEL:
Дълготрайна - локални ефекти - работници	Вдишване	1 mg/m ³
Дълготрайна - локални ефекти - цялото население	Вдишване	1 mg/m ³
Дълготрайна - систематични ефекти - работници	Дермално	<2 %
Дълготрайна - систематични ефекти - цялото население	Дермално	2 %

PNEC

натриев хидроксид;сода каустик

Маршрут на експозиция:	Продължителност на излагане:	PNEC:
Морска вода		0.64 mg/L
Периодично изпускане		3.1 mg/L
Периодично изпускане (Морска вода)		2.3 mg/kg TG
Почва		0.853 mg/kg TG
Пречиствателна станция за отпадни води		51 mg/L
Сладководна среда		6.4 mg/L
Сладководна среда утайки		23 mg/kg TG

8.2. Контрол на експозицията

Спазването на посочените стойности на ограничения на излагане трябва да се проверява редовно.

Общи препоръки:

Пушенето, консумацията на храна или течности, както и съхранението на тютюн, храна или течности, не са позволени в работните помещения.

сценариите на експозиция:

За този продукт няма въведени сценарии при излагане.

Граници на експозиция:

Търговските потребители са обхванати от правилата на действащото екологично законодателство за максимални концентрации за излагане. Вижте праговите стойности за работна хигиена по-горе.

Подходящи технически мерки:

Образуването на пара трябва да бъде минимално и под текущите гранични стойности (вижте по-горе). Препоръчва се монтиране на локална изпускателна система, ако обичайният въздушен поток в помещението е недостатъчен. Осигурете ясно маркиране на пунктовете за спешна промивка на очи и душовете.

Станциите за промивка на очите и аварийни душовете трябва да са леснодостъпни.

При употреба на продукта прилагайте стандартни предпазни мерки. Избягвайте вдишване на парите.

Мерки за лична хигиена:

Всеки път, когато си вземете почивка в използването на този продукт и когато приключите с използването му, всички открити части на тялото трябва да се измият. Обърнете особено внимание на ръцете, предмишниците и лицето.

Мерки за предотвратяване на екологична експозиция:

Дръжте преграждащите материали близо до работното място. Ако е възможно съберете разливането по време на работа.

Индивидуални мерки за защита като например лични предпазни средства

Общо:

Да се използва само защитно оборудване със СЕ маркировка.

Оборудване за дишане:

Тип	Клас	Цвят	Стандарти	
Не е нужна защита на дихателните пътища при подходяща вентилация				

Защита на кожата:

Препоръчано	Тип/Категория	Стандарти	
Трябва да се използва специално работно облекло	-	-	

Защита на ръцете:

Работна ситуация	Материал	Минимална дебелина на слоя (мм)	Период на издръжливост (минути)	Стандарти	
При продължително излагане или високи концентрации	Нитрилна гума	0.4	> 480	EN374-2, EN16523-1, EN388	
При краткотрайно излагане или ниски концентрации	Нитрилна гума	1,5	> 30	EN374-2, EN16523-1, EN388	

Защита на очите:

Тип	Стандарти	
Носете предпазни очила със странични предпазители.	EN166	

РАЗДЕЛ 9: ФИЗИЧНИ И ХИМИЧНИ СВОЙСТВА

9.1. Информация относно основните физични и химични свойства

Форма:

Течност

Цвят:

Бледо жълт

▼ Мирис / Граница на мириса (ppm):

Мек

pH:

13.5

Плътност (g/cm³):

1,29 (20 °C)

Кинематичен вискозитет:

Няма налични данни.

Характеристики на частиците:

Не се прилага за течности.

Фазови промени

Точка на топене/точка на замръзване (°C):

Няма налични данни.

Точката/интервалът на размекване (°C):

Не се прилага за течности.

Точка на кипене (°C):

100

Парно налягане:

Няма налични данни.

Относителна плътност на парите:

Няма налични данни.

Температура на разлагане (°C):

Няма налични данни.

Данни за опасности от пожар и експлозия

Точка на запалване (°C):

Няма налични данни.

Запалимост (°C):

Няма налични данни.

Температура на самозапалване (°C):

Няма налични данни.

Граници на експлозия (Обем %):

Няма налични данни.

Разтворимост

Разтворимост във вода:

Напълно разтворимо

коефициент на n-октанол/вода (LogKow):

Няма налични данни.

Разтворимост в мазнини (г/л):

Няма налични данни.

9.2. Друга информация

Други физични и химични параметри:

Няма налични данни.

Оксидиращи свойства:

Няма налични данни.

РАЗДЕЛ 10: СТАБИЛНОСТ И РЕАКТИВНОСТ

10.1. Реактивност

Няма налични данни.

10.2. Химична стабилност

Продуктът е стабилен при условията, отбелязани в раздел 7 "Работа и съхранение".

10.3. Възможност за опасни реакции

Никой познат.

10.4. Условия, които трябва да се избягват

Никой познат.

10.5. Несъвместими материали

Силни киселини, силни основи, силни окислителни, силни редуциращи агенти.

10.6. Опасни продукти на разпадане

Термичното разлагане може да доведе до корозивни изпарения.

РАЗДЕЛ 11: ТОКСИКОЛОГИЧНА ИНФОРМАЦИЯ

11.1. Информация за класовете на опасност, определени в Регламент (ЕО) № 1272/2008

Остра токсичност

Продукт/ингредиент	калиев хидроксид;калиева основа
Видове:	Плъх, мъжки
Маршрут на експозиция:	Орално
Изпитване:	LD50
Резултат:	333 - 388 mg/kg

Продукт/ингредиент	натриев хидроксид;сода каустик
Резултат:	45.4 mg/L

Продукт/ингредиент	натриев хидроксид;сода каустик
Видове:	Заек
Изпитване:	LD 10
Резултат:	500 mg/kg

Въз основа на наличните данни не са изпълнени критериите за класификация.

Корозия/дразнене на кожата

Продукт/ингредиент	iT.33 laundry booster pro
Резултат:	Наблюдавани са неблагоприятни ефекти (Силно дразнещ)

Продукт/ингредиент	калиев хидроксид;калиева основа
Резултат:	Наблюдавани са неблагоприятни ефекти (Корозивен)

Продукт/ингредиент	натриев хидроксид;сода каустик
Резултат:	Наблюдавани са неблагоприятни ефекти (Дразнещ)

Причинява тежки изгаряния на кожата и сериозно увреждане на очите.

Сериозно увреждане/дразнене на очите

Продукт/ингредиент	iT.33 laundry booster pro
Резултат:	Наблюдавани са неблагоприятни ефекти (Предизвиква сериозно увреждане на очите)

Продукт/ингредиент	калиев хидроксид;калиева основа
Резултат:	Наблюдавани са неблагоприятни ефекти (Силно корозивен)

Продукт/ингредиент	натриев хидроксид;сода каустик
Метод за изпитвания:	ОИСП 405
Видове:	Заек
Резултат:	Наблюдавани са неблагоприятни ефекти (Корозивен)

Предизвиква сериозно увреждане на очите.

Респираторна сенсibilизация

Продукт/ингредиент	калиев хидроксид;калиева основа
Резултат:	Не са наблюдавани неблагоприятни ефекти (не сенсibilизиращи)

Въз основа на наличните данни не са изпълнени критериите за класификация.

Кожна сенсibilизация

Въз основа на наличните данни не са изпълнени критериите за класификация.

Мутагенност на зародишните клетки

Въз основа на наличните данни не са изпълнени критериите за класификация.

Канцерогенност

Въз основа на наличните данни не са изпълнени критериите за класификация.

Репродуктивна токсичност

Въз основа на наличните данни не са изпълнени критериите за класификация.

STOT-еднократна експозиция

Въз основа на наличните данни не са изпълнени критериите за класификация.

STOT-повтаряща се експозиция

Въз основа на наличните данни не са изпълнени критериите за класификация.

Опасност при вдишване

Въз основа на наличните данни не са изпълнени критериите за класификация.

11.2. Информация за други опасности

Дългосрочни ефекти

Увреждащи тъканта ефекти: Този продукт съдържа вещества, които са корозивни. Ако се вдишат парите или аерозолите, това може да доведе до увреждане на белите дробове, дразнене и изгаряния в дихателните органи, както и кашлица. Разяждащите вещества предизвикват необратими увреждания на очите и киселинни изгаряния на кожата.

Свойства, нарушаващи функциите на ендокринната система

Тази смес/този продукт не съдържа вещества, за които се счита, че имат вредно въздействие върху хормоните по отношение на здравето.

Друга информация

Никой познат.

РАЗДЕЛ 12: ЕКОЛОГИЧНА ИНФОРМАЦИЯ

12.1. Токсичност

Продукт/ингредиент	iT.33 laundry booster pro
Видове:	Andere waterorganismen, Leuciscus idus
Сфера от околната среда:	Вода
Продължителност:	96 часа
Изпитване:	LC50
Резултат:	>100 mg/L

Продукт/ингредиент	натриев хидроксид;сода каустик
Видове:	Бактерии, Pseudomonas putida
Изпитване:	EC0
Резултат:	>100 mg/L

Продукт/ингредиент	натриев хидроксид;сода каустик
Видове:	Daphnia, Ceriodaphnia dubia
Продължителност:	48 часа
Резултат:	40.4 mg/L

Продукт/ингредиент	натриев хидроксид;сода каустик
Метод за изпитвания:	ОИСП 203
Видове:	Риби, Oncorhynchus mykiss

Продължителност: 96 часа
Изпитване: LC50
Резултат: 45.4 mg/L

Въз основа на наличните данни не са изпълнени критериите за класификация.

12.2. Устойчивост и разградимост

Въз основа на наличните данни не са изпълнени критериите за класификация.

12.3. Биоакмулираща способност

Продукт/ингредиент: натриев хидроксид; сода каустик
Заключение: Биологично натрупване не се очаква

12.4. Преносимост в почвата

Няма налични данни.

12.5. Резултати от оценката на PBT и vPvB

Тази смес/продукт не съдържа вещества, считани за отговарящи на критерии, класифициращи ги като PBT и/или vPvB.

12.6. Свойства, нарушаващи функциите на ендокринната система

Тази смес/този продукт не съдържа вещества, за които се счита, че имат свойства, нарушаващи функциите на ендокринната система, по отношение на околната среда.

12.7. Други неблагоприятни ефекти

Никой познат.

РАЗДЕЛ 13: ОБЕЗВРЕЖДАНЕ НА ОТПАДЪЦИТЕ

13.1. Методи за третиране на отпадъци

Продуктът е включен в разпоредбите за опасни отпадъци. (*)

HP 8 - Корозивни

Съдържанието/съдът да се изхвърли в одобрено съоръжение за изхвърляне на отпадъци.

Регламент (ЕС) № 1357/2014 на Комисията от 18 декември 2014 относно отпадъците.

EWC код:

20 01 29* детергенти, съдържащи опасни вещества

Замърсени опаковки

Опаковки, които съдържат остатъци от продукта трябва да се изхвърлят по същия начин както продукта.

РАЗДЕЛ 14: ИНФОРМАЦИЯ ОТНОСНО ТРАНСПОРТИРАНЕТО

	14.1 ООН	14.2 Точно наименование	14.3 Клас(ове) на опасност при транспортиране	14.4 PG*	14.5. Env**	Друга информация:
ADR	UN1719	АЛКАЛНИ ОСНОВИ ТЕЧНИ, Н.У.К. (калиев хидроксид; калиева основа, натриев хидроксид; сода каустик)	Клас: 8 Етикети: 8 Класификационен код: C5 	II	Ne	Ограничени количества : 1 L Транспорт на категория: (E) Вижте по- долу за

	14.1 ООН	14.2 Точно наименование	14.3 Клас(ове) на опасност при транспортиране	14.4 PG*	14.5. Env**	Друга информац ия:
						допълните лна информац ия.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Клас: 8 Етикети: 8 Класификационен код: C5 	II	Не	Ограничен и количества : 1 L EmS: F-A S- В Вижте по- долу за допълните лна информац ия.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Клас: 8 Етикети: 8 Класификационен код: C5 	II	Не	Вижте по- долу за допълните лна информац ия.

* Опаковъчна група

** Опасности за околната среда

Допълнителна информация

Този продукт е обхванат от конвенциите за опасни стоки.

ADR / Вж. Таблица А, раздел 3.2.1 за информация относно специални разпоредби, изисквания или предупреждения във връзка с транспорта. Вижте раздел 5.4.3 за писмени инструкции относно намаляването на щети във връзка с инциденти или злополуки по време на транспорт.

IMDG / Вж. раздел 3.2.1 за информация относно специални разпоредби, изисквания или предупреждения във връзка с транспорта.

IATA / Вж. Таблица 4.2, за информация относно специални разпоредби, изисквания или предупреждения във връзка с транспорта.

14.6. Специални предпазни мерки за потребителите

Не е приложимо.

14.7. Морски транспорт на товари в насипно състояние съгласно инструменти на Международната морска организация

Няма налични данни.

РАЗДЕЛ 15: ИНФОРМАЦИЯ ОТНОСНО НОРМАТИВНАТА УРЕДБА

15.1. Специфични за веществото или сместа нормативна уредба/законодателство относно безопасността, здравето и околната среда

Ограничения за приложение:

Само за професионална употреба.

Лица под 18-годишна възраст не трябва да се излагат на този продукт.

Търсене за конкретно образование:

Няма специфични изисквания.

SEVESO - КАТЕГОРИИ НА ОПАСНОСТ / ПОИМЕННО ПОСОЧЕНИ ОПАСНИ ВЕЩЕСТВА:

Не е приложимо.

Допълнителна информация:

Не е приложимо.

Източници:

НАРЕДБА № 6 ОТ 24 ЮЛИ 2006 Г. ЗА УСЛОВИЯТА И РЕДА ЗА ДАВАНЕ НА РАЗРЕШЕНИЯ ЗА РАБОТА НА ЛИЦА, НЕНАВЪРШИЛИ 18 ГОДИНИ.

Регламент (ЕО) № 648/2004 на Европейския парламент и на Съвета от 31 март 2004 година относно детергентите.

Регламент (ЕС) № 1357/2014 на Комисията от 18 декември 2014 година относно отпадъците.

Регламент (ЕО) № 1272/2008 на Европейския парламент и на Съвета от 16 декември 2008 година относно класифицирането, етиктирането и опаковането на вещества и смеси (CLP).

Регламент (ЕО) № 1907/2006 на Европейския парламент и на Съвета от 18 декември 2006 година относно регистрацията, оценката, разрешаването и ограничаването на химикали (REACH).

15.2. Оценка на безопасността на химично вещество или смес

Не

РАЗДЕЛ 16: ДРУГА ИНФОРМАЦИЯ

Пълният текст на H-фразите са посочени в раздел 3

H290, Може да бъде корозивно за металите.

H302, Вреден при поглъщане.

H314, Причинява тежки изгаряния на кожата и сериозно увреждане на очите.

H315, Предизвиква дразнене на кожата.

H318, Предизвиква сериозно увреждане на очите.

H319, Предизвиква сериозно дразнене на очите.

Съкращения и акроними

ADN = Европейско споразумение за международен превоз на опасни товари по вътрешни водни пътища

ADR = Европейска спогодба за международен превоз на опасни товари по шосе

ATE = Оценка на острата токсичност

BCF = Фактор на биоконцентрация

CAS = Химическа реферативна служба

CE = Сценарий на експозиция

CLP = Регламент за класифицирането, етиктирането и опаковането [Регламент (ЕО) №1272/2008]

CSA = Оценка за безопасност на химично вещество

CSR = Доклад за безопасност на химично вещество

DMEL = Изчислено ниво с минимален ефект

DNEL = Изчислено ниво без ефект

EINECS = Европейски инвентаризационен списък на съществуващите търговски химични вещества

EUN statement = CLP предупреждение за специфична опасност

EuPCS = Европейска система за категоризация на продукти

EWG = Европейски каталог на отпадъците

GHS = Глобална хармонизирана система за класифициране и етиктиране на химични вещества

IATA = Международна асоциация за въздушен транспорт

IBC = Средноголям контейнер за насипен товар

IMDG = Международен превоз на опасни товари по море

LogPow = Логаритъм от коефициента на разпределение октанол/вода

MARPOL 73/78 = Международна конвенция за предотвратяване замърсяването от кораби, 1973, изменена с протокол от 1978 г. ("Marpol" = замърсяване на морските води)

ОИСР = Организация за Икономическо Сътрудничество и Развитие

ОН = Обединени нации

ПГЗ = Потенциалът за глобално затопляне

PBT = Устойчиво, биоакмулиращо и токсично

PNEC = Изчислена концентрация без ефект

RID = Разпоредби за международен превоз на опасни товари с железопътен транспорт

RRN = Регистрационен номер съгласно REACH

SCL = специфична пределна концентрация.

STOT-RE = Специфична токсичност за определен орган - многократна експозиция

STOT-SE = Специфична токсичност за определен орган - еднократна експозиция

SVHC = Вещества, предизвикващи сериозно безпокойство

TWA = Средна премерена във времето

UVCB = вещества с неизвестен или променлив състав, продукти от сложни реакции или биологични материали.

ЛОС = Летливо органично съединение

vPvB = Много устойчиво и много биоакмулиращо

Допълнителна информация

Класификацията на сместа по отношение на рискове за здравето е извършена съгласно методите за изчисление, упоменати в Регламент (ЕО) № 1272/2008 (CLP).

Информационният лист за безопасност е потвърден от

Quality & Compliance

Други

Промяната (пропорционално на последната съществена промяна (първи шифър в SDS версия)) се отбелязва със триъгълник.

Информацията в този информационен лист за безопасност се отнася само за този конкретен продукт (посочен в раздел 1) и не е задължително да се коригира за използване на други химикали/продукти.

Препоръчително е този информационен лист за безопасност да се предаде на действителния потребител на продукта. Информацията в този информационен лист за безопасност не може да се използва като спецификация на продукта.

Държава-език: BG-bg

FICHA COM DADOS DE SEGURANÇA

iT.33 laundry booster pro

SEÇÃO 1: IDENTIFICAÇÃO DO PRODUTO E DA EMPRESA

1.1. Identificação do produto

Nome comercial:

iT.33 laundry booster pro

1.2. Utilizações identificadas relevantes da substância ou mistura e utilizações desaconselhadas

Usos identificados relevantes da substância ou mistura:

Detergentes e agentes de limpeza (incluindo os à base de solvente)

Somente para uso de profissionais.

Utilizações desaconselhadas:

Nenhum conhecido.

1.3. Identificação do fornecedor da ficha de informações de segurança de produto químico

Empresa e endereço:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revisão:

14/08/2025

Versão FDS:

2.0

Data da versão anterior:

28/07/2025 (1.0)

1.4. Número de telefone para emergências

Tel (ambulância): 192 Consultar a seção 4 "Medidas de primeiros socorros"

SEÇÃO 2: IDENTIFICAÇÃO DE PERIGOS

Classificado de acordo com a ABNT NBR 14725:2023.

2.1. ▼ Classificação da substância ou mistura

Met. Corr. 1; H290, Pode ser corrosivo para os metais.

Skin Corr. 1A; H314, Provoca queimadura severa à pele e dano aos olhos.

Eye Dam. 1; H318, Provoca lesões oculares graves.

2.2. Elementos de rotulagem

Pictograma(s) de perigo:



Palavra(s) de advertência:

Perigo

▼ *Frase(s) de perigo:*

Pode ser corrosivo para os metais. (H290)

Provoca queimadura severa à pele e dano aos olhos. (H314)

Recomendação(ões) de Prudência:

▼ *Geral:*

Não aplicável.

Prevenção:

Não inale as vapores/neblina. (P260)

Use luvas de proteção ocular/luvas de proteção/vestuário de proteção. (P280)

Resposta:

EM CASO DE CONTATO COM A PELE (ou o cabelo): Retirar imediatamente toda a roupa contaminada. Enxágua a pele com água ou tomar um ducha. (P303+P361+P353)

EM CASO DE CONTATO COM OS OLHOS: Enxágua cuidadosamente com água durante vários minutos. No caso de uso de lentes de contato, remova-as, se for fácil. Continue a enxaguando. (P305+P351+P338)

Armazenamento:

Armazene num recipiente resistente à corrosão com um revestimento interno resistente. (P406)

Eliminação:

Eliminar o conteúdo/recipiente Em conformidade com os regulamentos locais (P501)

Identificação das substâncias primariamente responsáveis pelos principais perigos para a saúde:

hidróxido de potássio;potassa cáustica

hidróxido de sódio

Rotulagem adicional:

Não aplicável.

SEÇÃO 3: COMPOSIÇÃO E INFORMAÇÕES SOBRE OS INGREDIENTES

3.1. Substâncias

Não aplicável. Este produto é uma mistura.

3.2. ▼ Misturas

Produto/Ingrediente	Identificadores	% w/w	Classificação	Notação
hidróxido de potássio;potassa cáustica	N.º CAS: 1310-58-3 N.º CE: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hidróxido de sódio	N.º CAS: 1310-73-2 N.º CE: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %)	

			Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Consultar texto integral de advertências de perigo na seção 16. Limites de exposição ocupacionais enumerados na seção 8, se estes se encontrarem disponíveis.

Outras informações

-

SEÇÃO 4: MEDIDAS DE PRIMEIROS SOCORROS

4.1. Descrição das medidas de primeiros socorros

Informação Geral:

Em caso de acidente: Contate um médico ou serviço de urgência - leve a etiqueta ou esta ficha de dados de segurança.

Contate um médico se tiver dúvidas sobre o estado de uma pessoa ferida ou se os sintomas perdurarem. Nunca ofereça dê água ou semelhante a uma pessoa inconsciente.

Inalação:

No caso de dificuldades de respiração ou irritação do sistema respiratório: Remova a pessoa para local ventilado e mantenha acompanhada

Contato com a pele:

Lavar a área exposta durante muito tempo, pelo menos 30 minutos. Pode ser necessário lavar durante várias horas. Utilizar uma temperatura de água confortável (20 - 30 °C). Contactar o centro de informação sobre as intoxicações/médico/hospital para obter aconselhamento sobre acompanhamento e tratamento.

Remova imediatamente o vestuário contaminado e os sapatos. A pele que tenha estado em contato com o material deve ser lavada com bastante água e sabão. Usar um produto de limpeza para a pele. NÃO use solventes ou diluentes.

Em caso de irritação cutânea: consulte um médico.

Contato com os olhos:

Em caso de contato com os olhos: Lave os olhos com bastante água abundante (20-30 °C) por, pelo menos, 30 minutos e continue até que a irritação pare. Remova as lentes de contato. Lave cuidadosamente por baixo das pálpebras inferior e superior. Contate de imediato um médico. Contatar um médico de imediato e continuar a lavar durante a viagem.

Ingestão:

Em caso de ingestão, contate imediatamente um médico. Se a pessoa estiver consciente, ofereça água. NÃO tente induzir o vômito salvo recomendação médica. Mantenha a face virada para baixo para que o vômito não retroceda para a boca e garganta. Previna o choque mantendo a pessoa aquecida e calma. Faça respiração boca-a-boca se a respiração parar. Se inconsciente, vire a pessoa deitada de lado com o joelho dobrado na coxa. Chame uma ambulância.

Queimaduras:

Não aplicável.

4.2. Sintomas e efeitos mais importantes, tanto agudos como retardados

Efeitos de danos nos tecidos: Este produto contém substâncias corrosivas. Se o vapor ou aerossóis foram inalados, pode resultar em danos nos pulmões, irritação e queimaduras nos órgãos respiratórios bem como tosse. As substâncias corrosivas provocam danos irreversíveis nos olhos e o ácido queima a pele.

4.3. Indicações sobre cuidados médicos urgentes e tratamentos especiais necessários

EM CASO DE exposição ou suspeita de exposição:

Consulte imediatamente um médico.

Notas para omédico

Leve este folha de informações de segurança de produto químicos ou a etiqueta do material com você.

SEÇÃO 5: MEDIDAS DE COMBATE A INCÊNDIO

5.1. Meios de extinção

Não aplicável.

5.2. Perigos específicos da substância ou mistura

No caso de fogo, pode gerar uma fumaça densa. A exposição a produtos catabólicos pode provocar a morte. Os recipientes fechados, que estão expostos ao fogo, devem ser resfriados com água. Não permita que a água usada para combater o incêndio escoa para os esgotos ou outros cursos de água.

Se o produto for exposto a temperaturas elevadas, como no caso de um incêndio, são produzidas substâncias catabólicas perigosas. Estas são:

Alguns óxidos metálicos

5.3. Medidas de proteção da equipe de combate a incêndio

Use equipamento autônomo de respiração e vestuário de proteção para evitar o contacto.

SEÇÃO 6: MEDIDAS DE CONTROLE PARA DERRAMAMENTO OU VAZAMENTO

6.1. Precauções pessoais, equipamento de proteção e procedimentos de emergência

Evite o contato direto com as substâncias derramadas.

As áreas contaminadas podem ser escorregadias.

6.2. Precauções ao meio ambiente

Evite a descarga em lagos, correntes de água, esgotos, etc.

Manter as pessoas não autorizadas longe do derrame

6.3. Métodos e materiais para a contenção e limpeza

Contenha e recolha produtos derramados com material não combustível e absorvente, por exemplo, areia, terra, vermiculite ou terra de diatomáceas e coloque num recipiente para eliminação de acordo com os regulamentos locais.

Deve ser feita uma limpeza, tanto quanto possível, usando agentes de limpeza normais. Evitar o uso de solventes.

6.4. Remissão para outras secções

Consulte a seção 13 "Considerações relativas à eliminação" para o manuseio de resíduos.

Consulte a seção 8 "controle da exposição/Proteção individual" para medidas preventivas.

SEÇÃO 7: MANUSEIO E ARMAZENAMENTO

7.1. Precauções para manuseio seguro

Evite o contato direto com o produto.

Fumar, consumir alimentos ou líquidos e armazenar tabaco, alimentos ou líquidos, não é permitido nas salas de trabalho.

Consulte a seção "controle da exposição/Proteção individual" para informação sobre proteção pessoal.

7.2. Condições de armazenamento seguro, incluindo qualquer incompatibilidade

Os recipientes abertos devem ser cuidadosamente fechados novamente e mantidos na vertical para impedir vazamentos.

Armazene num recipiente resistente á corrosão com um revestimento interno resistente.

Compatibilidade das embalagens:

Mantenha sempre o produto na sua embalagem original.

Condições de armazenamento:

Ambiente seco, fresco e bem ventilado

Materiais incompatíveis:

Ácidos fortes, bases fortes, fortes agentes oxidantes e fortes agentes catabólicos.

7.3. Utilização(ões) final(is) específica(s)

Este produto apenas deve ser usado para as aplicações descritas na seção 1.2.

SEÇÃO 8: CONTROLE DE EXPOSIÇÃO E PROTEÇÃO INDIVIDUAL

8.1. Parâmetros de controle

Este produto não contém quaisquer substâncias constantes da lista brasileira de substâncias com limite de exposição profissional.

8.2. Medidas de controle de engenharia

Aplique controle geral para evitar exposição desnecessária.

Recomendações gerais:

Fumar, consumir alimentos ou líquidos e armazenar tabaco, alimentos ou líquidos, não é permitido nas salas de trabalho.

Cenários de exposição:

Não existem cenários de exposição para este produto.

Limites de exposição:

Não existem quaisquer limites de exposição máximos para as substâncias constantes neste produto.

Medidas técnicas apropriadas:

Certifique-se de que as estações de lavagem ocular e os chuveiros de segurança estão localizados a uma curta distância.

Aplicar as precauções padrão quando utilizar o produto. Evitar a inalação de vapores.

Medidas de higiene:

Sempre que fizer uma pausa na utilização deste produto e quando tiver terminado de o utilizar, todas as áreas do corpo expostas, devem ser lavadas. Dê especial atenção às mãos, antebraços e rosto.

Medidas para evitar a exposição ambiental:

Mantenha os materiais de contenção próximo do local de trabalho. Se possível recolha produto derramado durante o trabalho.

Medidas de proteção Pessoal

Geralmente:

Usar apenas equipamento de proteção com a marcação 'CA'.

Equipamento respiratórios:

Tipo	Classe	Cor	Normas	
Com ventilação adequada, a proteção respiratória não é necessária				

Proteção da pele:

Recomendado	Tipo/Categoria	Normas	
Vestimentos próprios para uso exclusivo	-	-	

Proteção das mãos:

Situação de trabalho	Material	Espessura mínima da capa (mm)	Pausa através do tempo (min.)	Normas	
Em casos de exposição prolongada ou concentrações altas	Borracha nitrílica	0,4	> 480	EN374-2, EN16523-1, EN388	
Em casos de curta exposição ou com baixas concentrações	Borracha nitrílica	1,5	> 30	EN374-2, EN16523-1, EN388	

Proteção dos olhos:

Tipo	Normas	
Utilizar óculos de segurança com proteção lateral.	EN166	

SEÇÃO 9: PROPRIEDADES FÍSICAS E QUÍMICAS

9.1. Informações sobre propriedades físicas e químicas de base

Aspecto:

Líquido

Cor:

Amarelo pálido

▼ Odor / Limite de odor (ppm):

Suave

pH:

13,5

Densidade (g/cm³):

1,29 (20 °C)

Viscosidade:

Nenhum dado disponível.

Características das partículas:

Não se aplica aos líquidos.

Alterações da fase

Ponto de fusão/ponto de congelação (°C):

Nenhum dado disponível.

Ponto/intervalo de amolecimento (°C):

Não se aplica aos líquidos.

Ponto de ebulição (°C):

100

Pressão de vapor:

Nenhum dado disponível.

Densidade relativa do vapor:

Nenhum dado disponível.

Temperatura de decomposição (°C):

Nenhum dado disponível.

Dados sobre os perigos de fogo e explosão

Ponto de fulgor (°C):

Nenhum dado disponível.

Ignição (°C):

Nenhum dado disponível.

Temperatura de autoignição (°C):

Nenhum dado disponível.

Limite inferior/superior de inflamabilidade ou explosividade (% v/v):

Nenhum dado disponível.

Solubilidade

Solubilidade na água:

Completamente solúvel

Coefficiente de partição: n-octanol/água (LogKow):

Nenhum dado disponível.

Solubilidade em gordura (g/L):

Nenhum dado disponível.

9.2. Outras informações

Outros parâmetros físicos e químicos:

Nenhum dado disponível.

Propriedades oxidantes:

Nenhum dado disponível.

SEÇÃO 10: ESTABILIDADE E REATIVIDADE

10.1. Reatividade

Nenhum dado disponível.

10.2. Estabilidade química

O produto é estável sob as condições mencionadas na seção 7 "Manuseamento e armazenagem".

10.3. Possibilidade de reações perigosas

Nenhum conhecido.

10.4. Condições a serem evitadas

Nenhum conhecido.

10.5. Materiais incompatíveis

Ácidos fortes, bases fortes, fortes agentes oxidantes e fortes agentes catabólicos.

10.6. Produtos perigosos da decomposição

A decomposição térmica pode produzir vapores corrosivos.

SEÇÃO 11: INFORMAÇÕES TOXICOLÓGICAS

11.1. Informações sobre as classes de perigo

Toxicidade aguda

Produto/Ingrediente	hidróxido de potássio; potassa cáustica
Espécie:	Rato, machos
Via de exposição:	Oral
Teste:	LD50

Conforme ABNT NBR 14725:2023

Resultado:	333 - 388 mg/kg

Produto/Ingrediente	hidróxido de sódio
Resultado:	45.4 mg/L

Produto/Ingrediente	hidróxido de sódio
Espécie:	Coelho
Teste:	LD 10
Resultado:	500 mg/kg

Com base nos dados disponíveis, não atende os critérios de classificação.

Corrosão/irritação da pele

Produto/Ingrediente	iT.33 laundry booster pro
Resultado:	Efeitos adversos observados (Altamente irritante)

Produto/Ingrediente	hidróxido de potássio; potassa cáustica
Resultado:	Efeitos adversos observados (Corrosivo)

Produto/Ingrediente	hidróxido de sódio
Resultado:	Efeitos adversos observados (Irritante)

Provoca queimadura severa à pele e dano aos olhos.

Lesões oculares graves/irritação ocular

Produto/Ingrediente	iT.33 laundry booster pro
Resultado:	Efeitos adversos observados (Provoca lesões oculares graves)

Produto/Ingrediente	hidróxido de potássio; potassa cáustica
Resultado:	Efeitos adversos observados (Altamente corrosivo)

Produto/Ingrediente	hidróxido de sódio
Método de ensaio:	OCDE 405
Espécie:	Coelho
Resultado:	Efeitos adversos observados (Corrosivo)

Provoca lesões oculares graves.

Sensibilização respiratória

Produto/Ingrediente	hidróxido de potássio; potassa cáustica
Resultado:	Nenhum efeito adverso observado (não sensibilizando)

Com base nos dados disponíveis, não atende os critérios de classificação.

Sensibilização da pele

Com base nos dados disponíveis, não atende os critérios de classificação.

Mutagenicidade em células germinativas

Com base nos dados disponíveis, não atende os critérios de classificação.

Carcinogenicidade

Com base nos dados disponíveis, não atende os critérios de classificação.

Toxicidade à reprodução

Com base nos dados disponíveis, não atende os critérios de classificação.

Toxicidade para órgãos-alvo específicos (STOT) – exposição única

Com base nos dados disponíveis, não atende os critérios de classificação.

Toxicidade para órgãos-alvo específicos (STOT) – exposição repetida; e

Com base nos dados disponíveis, não atende os critérios de classificação.

Perigo por aspiração

Com base nos dados disponíveis, não atende os critérios de classificação.

11.2. Outras informações sobre outros perigos

Efeitos a longo prazo

Efeitos de danos nos tecidos: Este produto contém substâncias corrosivas. Se o vapor ou aerossóis foram inalados, pode resultar em danos nos pulmões, irritação e queimaduras nos órgãos respiratórios bem como tosse. As substâncias corrosivas provocam danos irreversíveis nos olhos e o ácido queima a pele.

Propriedades desreguladoras do sistema endócrino

Outras informações

Nenhum conhecido.

SEÇÃO 12: INFORMAÇÕES ECOLÓGICAS

12.1. Ecotoxicidade

Produto/Ingrediente	iT.33 laundry booster pro
Espécie:	Andere waterorganismen, Leuciscus idus
Compartimento ambiental:	Água
Duração:	96 horas
Teste:	LC50
Resultado:	>100 mg/L

Produto/Ingrediente	hidróxido de sódio
Espécie:	Bactérias, Pseudomonas putida
Teste:	EC0
Resultado:	>100 mg/L

Produto/Ingrediente	hidróxido de sódio
Espécie:	Dáfnias, Ceriodaphnia dubia
Duração:	48 horas
Resultado:	40.4 mg/L

Produto/Ingrediente	hidróxido de sódio
Método de ensaio:	OCDE 203
Espécie:	Peixes, Oncorhynchus mykiss
Duração:	96 horas
Teste:	LC50
Resultado:	45.4 mg/L

Com base nos dados disponíveis, não atende os critérios de classificação.

12.2. Persistência e degradabilidade

Com base nos dados disponíveis, não atende os critérios de classificação.

12.3. Potencial bioacumulativo

Produto/Ingrediente	hidróxido de sódio
Conclusão:	A bioacumulação não é esperada

12.4. Mobilidade no solo

Nenhum dado disponível.

12.7. Outros efeitos adversos

Nenhum conhecido.

SEÇÃO 13: CONSIDERAÇÕES SOBRE DESTINAÇÃO FINAL

Métodos recomendados para destinação final

Descarte o conteúdo/recipiente em a uma instalação de eliminação de resíduos aprovada.

Embalagem contaminada

As embalagens que contenham restos do produto devem ser descartadas da mesma forma que o produto.

SEÇÃO 14: INFORMAÇÕES SOBRE TRANSPORTE

	14.1 ONU	14.2 Nome apropriado para embarque	14.3 Classe/subclasse	14.4 PG*	14.5. Env**	Outras informaçõ es:
ANTT	UN1719	LÍQUIDO ALCALINO CÁUSTICO, N.S.A. (hidróxido de potássio;potassa cáustica, hidróxido de sódio)	Classe: 8 Etiquetas: 8 Código de classificação: C5 	II	Não	Quantidad es limitadas: 1 L Código de restrição em túneis: (E) Vide maiores informaçõe s abaixo.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Etiquetas: 8 Código de classificação: C5 	II	Não	Quantidad es limitadas: 1 L EmS: F-A S- B Vide maiores informaçõe s abaixo.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Etiquetas: 8 Código de classificação: C5 	II	Não	Vide maiores informaçõe s abaixo.

* Grupo de embalagem

** Perigo ao meio ambiente

Informação adicional

Este produto se enquadra no escópo das convenções sobre mercadorias perigosas.

ANTT / Consulte a Tabela A, seção 3.2.1 para obter quaisquer informações sobre disposições especiais, requisitos ou avisos relacionados com transporte. Consulte a seção 5.4.1 para obter instruções sobre como escrever sobre atenuação de danos em relação a incidentes ou acidentes durante o transporte.

IMDG / Consulte a Secção 3.2.1 para obter quaisquer informações sobre disposições especiais, requisitos ou avisos relacionados com transporte.

IATA / Consulte a, Tabela 4.2 para obter quaisquer informações sobre disposições especiais, requisitos ou avisos relacionados com transporte.

14.6. Precauções especiais para o utilizador

Não aplicável.

SEÇÃO 15: INFORMAÇÕES SOBRE REGULAMENTAÇÕES

15.1. Regulamentação/legislação específica para a substância ou mistura em matéria de saúde, segurança e ambiente

Restrições a aplicação:

Somente para uso de profissionais.

As pessoas com menos de 18 anos de idade não podem ser expostas a este produto.

Exigências para educação específica:

Sem requisitos específicos.

SEVESO - Categorias / Substâncias perigosas:

Não aplicável.

Informação adicional:

Não aplicável.

Fontes:

ABNT NBR 14725:2023. Produtos químicos — Informações sobre segurança, saúde e meio ambiente Parte 2:

Sistema de classificação de perigo.

Leis do Trabalho – CLT e normas correlacionadas.

15.2. Avaliação da segurança química

Não

SEÇÃO 16: OUTRAS INFORMAÇÕES

O texto integral das advertências de perigo- conforme mencionado na secção 3

H290, Pode ser corrosivo para os metais.

H302, Prejudicial se for engolido.

H314, Provoca queimadura severa á pele e dano aos olhos.

H315, Provoca irritação à pele.

H318, Provoca lesões oculares graves.

H319, Provoca irritação ocular grave.

O texto integral dos usos identificados conforme mencionado na secção 1

Nenhum conhecido.

Abreviaturas e siglas

ABNT = Associação Brasileira de Normas Técnicas

ADR = Acordo Europeu relativo ao Transporte Internacional de Carga Perigosa por via terrestre

ANTT = Agência Nacional de Transporte Terrestre

ATE = Toxicidade Aguda Estimada

BCF = Fator de Bioconcentração

CAS = Chemical Abstracts Service

CA = Certificado de aprovação

DNEL = Nível Derivado sem Efeito

GHS = Sistema Harmonizado Globalmente para a Classificação e Rotulagem de Produtos Químicos

IATA = Associação Internacional de Transporte Aéreo

IBC = Recipiente intermediário a granel

IMDG = Transporte Marítimo Internacional de Material Perigoso

LogPow = logaritmo do octanol/coeficiente de partição da água

MARPOL = Convenção Internacional para a Prevenção da poluição por Navios, 1973 alterada pelo Protocolo de 1978.
("Marpol" = poluição da marinha)

mPmB = Muito Persistente e Muito Bioacumulável

NBR = Norma Brasileira Regulamentadora

Conforme ABNT NBR 14725:2023

OCDE = Organização de Cooperação e Desenvolvimento Económico

PBT = Persistente, Bioacumulável e Tóxico

PNEC = Concentração previsível sem efeito

UVBC = Composição desconhecida ou variável; contém produtos sujeitos a reação complexa ou composto de materiais biológicos.

Informação adicional

A classificação da mistura, no que diz respeito a riscos para a saúde, está em conformidade com os métodos de cálculos fornecidos pelo ABNT NBR 14725:2023.

A ficha de informações de segurança de produtos químicos é validada por

Quality & Compliance

Outro

Uma alteração (na proporção da última mudança essencial (primeira cifra na versão FDS)) está assinalada com um triângulo.

A informação constante nesta ficha de informações de segurança de produtos químicos aplica-se apenas a este produto específico (mencionado na seção 1) e não se aplica necessariamente no caso de utilização de outros químicos/produtos.

Recomenda-se a entrega desta ficha de informações de segurança de produtos químicos ao utilizador atual do produto. A informação constante nesta ficha de informações de segurança de produtos químicos não pode ser usada como uma especificação do produto.

Idioma do país: BR-pt-BR

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

8/14/2025

SDS Version:

2.0

Date of previous version:

7/28/2025 (1.0)

1.4. Emergency telephone number

In an emergency call 911

Alberta / Northwestern Territories (PADIS): 1-800-332-1414

British Columbia (DPIC): 1-800-567-8911

Manitoba: 1-855-7POISON (1-855-776-4766)

New Brunswick: 911

Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161

Ontario (OPC): 1-800-268-9017

Québec (CAPQ): 1-800-463-5060

Saskatchewan (PADIS): 1-866-454-1212

Yukon Territory: (867) 393-8700

Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone (24

hours)

See also section 4 "First aid measures".

SECTION 2: HAZARD(S) IDENTIFICATION

Classified as hazardous according to Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Absorb spillage to prevent material damage. (P390)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Conforms to Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272)

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General information:

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to

the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

ALBERTA

potassium hydroxide;caustic potash

Short term exposure limit (15 minutes) (mg/m³): (c) 2

Annotations:

3 = Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

sodium hydroxide;caustic soda

Short term exposure limit (15 minutes) (mg/m³): (c) 2

Annotations:

3 = Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

BRITISH COLUMBIA

potassium hydroxide;caustic potash

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 2 mg/m³

sodium hydroxide;caustic soda

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 2 mg/m³

OHS Regulation Part 5: Chemical Agents and Biological Agents.

ONTARIO

potassium hydroxide;caustic potash

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 2 mg/m³

sodium hydroxide;caustic soda

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 2 mg/m³

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

QUEBEC

potassium hydroxide;caustic potash

Annotations:

EM = Exposure must be reduced to a minimum in accordance with section 42.

RP = A substance which may not be recirculated in accordance with section 108.

sodium hydroxide;caustic soda

Annotations:

RP = A substance which may not be recirculated in accordance with section 108.

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)

SASKATCHEWAN

potassium hydroxide;caustic potash

STEV/Ceiling (mg/m³): 2

sodium hydroxide;caustic soda

STEV/Ceiling (mg/m³): 2

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Conforms to Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272)

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°F):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

Conforms to Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
TDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

TDG / See Schedule 1 for any information on special provisions, requirements, or warnings in connection with transport. See part 3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Canadian lists

NDSL:

None of the components are listed

DSL:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

15.4. Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

15.5. Demands for specific education

No specific requirements.

Additional information

Not applicable.

15.7. Chemical safety assessment

No

Sources

Hazardous Products Regulation SOR/2015-17 (as amended by SOR/2022-272)

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ANSI = American National Standards Institute

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
DSL = Domestic Substances List
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HHNOC = Health Hazards Not Otherwise Classified
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NDSL = Non-domestic substances list
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PHNOC = Physical Hazards Not Otherwise Classified
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL = A specific concentration limit.
SOR = Statutory Orders and Regulations
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TDG = Transportation of Dangerous Goods
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative
WHIMS = Workplace Hazardous Materials Information System

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

FICHE DE DONNÉES DE SÉCURITÉ

iT.33 laundry booster pro

RUBRIQUE 1: IDENTIFICATION.

1.1. Identificateur de produit

Marque commerciale:

iT.33 laundry booster pro

1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Utilisations identifiées pertinentes de la substance ou du mélange:

Produits de lavage et de nettoyage (y compris produits à base de solvants)

Réservé aux utilisateurs professionnels.

Utilisations déconseillées :

Aucune connue.

1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Nom et adresse de l'entreprise:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Courriel:

info@hygeniq.com

Fiche de données de sécurité rédigée le:

2025-08-14

Version de la fiche de données de sécurité:

2.0

Date de la précédente édition:

2025-07-28 (1.0)

1.4. Numéro d'appel d'urgence

Dans un cas d'urgence contacter 911

Alberta / Territoires du Nord-Ouest (PADIS): 1-800-332-1414

Colombie-Britannique (DPIC): 1-800-567-8911

Manitoba: 1-855-7POISON (1-855-776-4766)

Nouveau-Brunswick: 911

Nouvelle-Écosse / Île-du-Prince-Édouard (IWK): 1-800-565-8161

Ontario (CAO): 1-800-268-9017

Québec (CAPQ): 1-800-463-5060

Saskatchewan (PADIS): 1-866-454-1212

Yukon: (867) 393-8700

D'urgence, transport: Veuillez contacter CANUTEC au 1-888-CAN-UTEC (226-8832), 613-996-6666 ou *666 sur un

téléphone cellulaire (24 h)
Voir la rubrique 4 concernant premiers secours.

RUBRIQUE 2: IDENTIFICATION DES DANGERS

Classé comme dangereux conformément au Règlement sur les produits dangereux DORS/2015-17 (tel que modifié par DORS/2022-272).

2.1. Classification de la substance ou du mélange

Met. Corr. 1; H290, Peut être corrosif pour les métaux.

Skin Corr. 1A; H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.

Eye Dam. 1; H318, Provoque de graves lésions des yeux.

2.2. Éléments d'étiquetage

Pictogramme(s) de danger:



Mention d'avertissement:

Danger

Mention(s) de danger:

Peut être corrosif pour les métaux. (H290)

Provoque de graves brûlures de la peau et de graves lésions des yeux. (H314)

Conseil(s) de prudence:

▼ *Précautions:*

Sans objet.

générales:

Ne pas respirer les vapeurs/brouillards. (P260)

Porter un équipement de protection des yeux/ des gants de protection/des vêtements de protection. (P280)

Intervention:

EN CAS D'INGESTION: Rincer la bouche. NE PAS faire vomir. (P301+P330+P331)

EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés.

Rincer la peau à l'eau ou se doucher. (P303+P361+P353)

EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

(P305+P351+P338)

Appeler immédiatement un CENTRE ANTIPOISON/un médecin. (P310)

Absorber toute substance répandue pour éviter qu'elle attaque les matériaux environnants. (P390)

Stockage:

Stocker dans un récipient avec doublure intérieure. (P406)

Élimination:

Éliminer le contenu/récipient conformément à la réglementation locale (P501)

Contient:

hydroxyde de potassium;potasse caustique

hydroxyde de sodium

soude caustique

Autre étiquetage:

Sans objet.

RUBRIQUE 3: COMPOSITION/INFORMATIONS SUR LES COMPOSANTS

3.1. Substances

Sans objet. Ce produit est un mélange.

3.2. ▼ Mélanges

Produit/composant	Identifiants	% w/w	Classification	Note
hydroxyde de potassium;potasse caustique	N° CAS : 1310-58-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hydroxyde de sodium soude caustique	N° CAS : 1310-73-2	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Le texte intégral des phrases H se trouve dans la rubrique 16. Les limites d'exposition professionnelle sont indiquées dans la rubrique 8, à condition d'être disponibles

Autres informations

-

RUBRIQUE 4: PREMIERS SOINS

4.1. Description des premiers secours

Généralités:

Si la respiration est irrégulière, la somnolence, la perte de conscience ou des crampes : Appelez 911 et donnez le traitement immédiatement (premiers secours)

En cas de symptômes persistants ou en cas de doute concernant l'état de la personne blessée, faites appel à un médecin. Ne donnez jamais à boire de l'eau ou autre liquide à une personne ayant perdu connaissance.

Inhalation:

En cas de difficultés respiratoires ou d'irritation des voies respiratoires : Amenez la personne à l'air frais et gardez la personne sous surveillance.

Contact cutané:

Rincez la zone exposée à l'eau pendant une longue période - au moins 30 minutes. Il peut être nécessaire de rincer pendant plusieurs heures. Utilisez une température d'eau confortable (20-30 °C). Contactez le service antipoison/le médecin/l'hôpital pour obtenir des conseils supplémentaires sur le suivi et le traitement.

Retirez immédiatement les vêtements et chaussures contaminés. Lavez soigneusement avec de l'eau et du savon la peau qui a été en contact avec le produit. Des produits nettoyants domestiques peuvent être utilisés. N'utilisez PAS de produits solvants ou de diluants.

En cas d'irritation cutanée: consulter un médecin.

Contact visuel:

En cas de contact avec les yeux: Rincez aussitôt les yeux avec de grandes quantités d'eau (20-30 °C) pendant au moins 30 minutes et continuez jusqu'à ce que l'irritation cesse. Retirez les éventuelles lentilles de contact. Assurez-vous de bien rincer sous la paupière supérieure et sous la paupière inférieure. Faites aussitôt appel à un médecin. Consultez un médecin immédiatement et continuez de rincer pendant le trajet.

Ingestion:

En cas d'ingestion, contactez immédiatement un médecin. Donnez au blessé de l'eau à boire si la personne est consciente. N'essayez JAMAIS de faire vomir à moins que le médecin ne le recommande. Maintenez la tête tournée vers le bas de manière à ce que le vomi ne revienne pas dans la bouche et la gorge. Prévenez les chocs en gardant le blessé au chaud et au calme. Pratiquez la respiration artificielle si la respiration s'arrête. En cas d'évanouissement; mettez le blessé en position latérale de sécurité. Appelez une ambulance.

Brûlure:

Sans objet.

4.2. Principaux symptômes et effets, aigus et différés

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau. L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

4.3. Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

EN CAS d'exposition prouvée ou suspectée:
Consulter immédiatement un médecin.

Informations pour le médecin

Apportez la présente fiche de données de sécurité ou l'étiquette du produit.

RUBRIQUE 5: MESURES À PRENDRE EN CAS D'INCENDIE

5.1. Moyens d'extinction

Sans objet.

5.2. Dangers particuliers résultant de la substance ou du mélange

Le feu va dégager une épaisse fumée. L'exposition aux produits de décomposition représente un danger pour la santé. Les récipients fermés exposés au feu sont refroidis avec de l'eau. Ne laissez pas de l'eau ayant servi à éteindre l'incendie s'écouler dans les égouts et les cours d'eau.

Si le produit est exposé à de hautes températures, par exemple en cas d'incendie, de dangereux produits gazeux de décomposition peuvent être créés. Il s'agit de :

Certains oxydes de métal

5.3. Conseils aux pompiers

Portez une combinaison d'intervention normale et une protection respiratoire complète afin d'éviter tout contact. Voir la rubrique 1 concernant numéro d'appel d'urgence.

RUBRIQUE 6: MESURES À PRENDRE EN CAS DE DÉVERSEMENT ACCIDENTEL

6.1. Précautions individuelles, équipement de protection et procédures d'urgence

Évitez le contact direct avec le produit répandu.

Assurer une ventilation adéquate, en particulier dans les espaces confinés.

Les zones contaminées peuvent être glissantes.

6.2. Précautions pour la protection de l'environnement

Ne déversez pas dans les lacs, les ruisseaux, les égouts, etc.

Tenir les personnes non autorisées éloignées du déversement.

6.3. Méthodes et matériel de confinement et de nettoyage

Contenez et collectez les déversements avec un matériau absorbant non combustible, par exemple du sable, de la terre, de la vermiculite ou de la terre de diatomées, et placez-les dans un récipient pour les éliminer conformément aux réglementations locales.

Nettoyez autant que possible avec des produits de nettoyage ordinaires. Évitez les solvants.

6.4. Référence à d'autres rubriques

Voir la rubrique 13 "Considérations relatives à l'élimination" sur la manipulation des déchets.

Voir la rubrique 8 "Contrôles de l'exposition/protection individuelle" pour les mesures de protection.

RUBRIQUE 7: MANUTENTION ET STOCKAGE.

7.1. Précautions à prendre pour une manipulation sans danger

Éviter le contact direct avec le produit.

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Voir la rubrique 8 «Contrôles de l'exposition/protection individuelle» pour des renseignements sur les dispositifs de protection individuelle.

7.2. Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

Les récipients ayant été ouverts doivent être refermés avec soin et maintenus en position verticale afin d'éviter les fuites.

Stocker dans un récipient avec doublure intérieure.

Les compatibilités en matière de conditionnement:

Conserver uniquement dans l'emballage d'origine.

Conditions de stockage:

Sec, frais et bien ventilé

Matières incompatibles:

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

7.3. Utilisation(s) finale(s) particulière(s)

Ce produit doit être utilisé exclusivement pour les applications décrites la rubrique 1.2.

RUBRIQUE 8: CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE

8.1. Paramètres de contrôle

ALBERTA

hydroxyde de potassium;potasse caustique

Valeur à court terme (15 minutes) (VLCT ou VLE) (mg/m³): (c) 2

Observations:

3 =La limite d'exposition professionnelle est basée sur des effets d'irritation et son ajustement pour compenser des horaires de travail inhabituels n'est pas nécessaire.

hydroxyde de sodium

soude caustique

Valeur à court terme (15 minutes) (VLCT ou VLE) (mg/m³): (c) 2

Observations:

3 =La limite d'exposition professionnelle est basée sur des effets d'irritation et son ajustement pour compenser des horaires de travail inhabituels n'est pas nécessaire.

Ordre du code de la santé et de la sécurité au travail de 2009, Alta Règl. 87/2009 (révisé en 2018)

LA COLOMBIE-BRITANNIQUE

hydroxyde de potassium;potasse caustique

Pour une exposition de courte durée (STEL) / Valeur limite maximale d'exposition (C): C 2 mg/m³
hydroxyde de sodium
soude caustique
Pour une exposition de courte durée (STEL) / Valeur limite maximale d'exposition (C): C 2 mg/m³
Règlement SST, partie 5: Agents chimiques et agents biologiques.

ONTARIO

hydroxyde de potassium;potasse caustique
Pour une exposition de courte durée (STEL) / Valeur limite maximale d'exposition (C): C 2 mg/m³
hydroxyde de sodium
soude caustique
Pour une exposition de courte durée (STEL) / Valeur limite maximale d'exposition (C): C 2 mg/m³
Le Règlement 833 (Contrôle de l'exposition à des agents biologiques ou chimiques) et le Règlement de l'Ontario 490/09 (substances désignées)

QUEBEC

hydroxyde de potassium;potasse caustique
Observations:
EM = L'exposition doit être réduite au minimum conformément à l'article 42.
RP = Une substance dont la recirculation est prohibée conformément à l'article 108.
hydroxyde de sodium
soude caustique
Observations:
RP = Une substance dont la recirculation est prohibée conformément à l'article 108.
Règlement sur la santé et la sécurité du travail (Chapitre S-2.1, r. 13)

SASKATCHEWAN

hydroxyde de potassium;potasse caustique
VECD/Plafond (mg/m³): 2
hydroxyde de sodium
soude caustique
VECD/Plafond (mg/m³): 2
Le règlement de 2020 sur la santé et la sécurité au travail, Chapter S15.1 Reg 10 .

8.2. Contrôles de l'exposition

Le respect des valeurs limites indiquées doit être contrôlé régulièrement.

Précautions générales:

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Scénarios d'exposition:

Aucun scénario d'exposition n'est mis en œuvre pour ce produit.

Limite d'exposition:

Les utilisateurs professionnels sont concernés par la législation sur l'environnement de travail qui concerne les concentrations maximales auxquelles il est permis d'être exposé. Voir les valeurs limites d'hygiène de travail indiquées ci-dessus.

Mesures techniques:

La formation de vapeur doit être minimale et rester sous les valeurs limites actuelles (voir ci-dessus). Si l'aération n'est pas suffisante dans la pièce, l'installation d'un système local de ventilation est recommandée. Assurez-vous que les douches oculaires et les douches d'urgence sont clairement indiquées.

S'assurer que les postes de rinçage oculaire et les douches de décontamination sont facilement accessibles.

Suivez les précautions habituelles quand vous utilisez le produit. Évitez de respirer les vapeurs.

Mesures d'hygiène:

A chaque pause lors de l'utilisation du produit et une fois le travail terminé, les parties exposées du corps doivent être lavées. Porter une attention particulière aux mains, aux avant-bras et au visage.

Mesures pour la limitation de l'exposition à l'environnement:

Assurez-vous que des matériaux de retenue se trouvent à proximité du poste de travail. Collectez les déperditions si possible au cours du travail.

Mesures de protection individuelle, telles que les équipement de protection personnelle

Généralités:

Utilisez uniquement des équipements de protection portant un marquage de certification reconnu, par exemple le marquage UL.

Équipements respiratoires:

Type	Classe	Couleur	Normes	
Aucune protection respiratoire n'est requise en cas de ventilation adaptée				

Protection de la peau:

Recommandé	Type/Catégorie	Normes	
Utilisez des vêtements de travail dédiés	-	-	

Protection des mains:

Situation de travail	Matériel	Épaisseur minimum (mm)	Délai de rupture (min.)	Normes	
En cas d'exposition prolongée ou de concentration élevée	Caoutchouc nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
En cas d'exposition de courte durée ou de faible concentration	Caoutchouc nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Protection des yeux:

Type	Normes	
Porter des lunettes de sécurité avec protections latérales.	EN166	

RUBRIQUE 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

9.1. Informations sur les propriétés physiques et chimiques essentielles

Etat physique:

Liquide

Couleur:

Jaune pâle

▼ *Odeur:*

Doux

Seuil olfactif (ppm):

Aucune information disponible.

pH:

13.5

Densité (g/cm³):

1,29 (20 °C)

Viscosité cinématique:

Aucune information disponible.

Caractéristiques des particules:

Ne s'applique pas aux liquides.

Changement d'état

Point de fusion/point de congélation (°C):

Aucune information disponible.

Le point/l'intervalle de ramollissement (°F):

Ne s'applique pas aux liquides.

Point d'ébullition (°C):

100

Pression de vapeur:

Aucune information disponible.

Densité de vapeur:

Aucune information disponible.

Température de décomposition (°C):

Aucune information disponible.

Informations concernant les risques d'explosion et d'incendie

Point d'éclair (°C):

Aucune information disponible.

Inflammabilité (°C):

Aucune information disponible.

Température d'auto-inflammation (°C):

Aucune information disponible.

Limite d'explosivité (% v/v):

Aucune information disponible.

Solubilité

Solubilité dans l'eau:

Complètement soluble

n-octanol/coefficient d'eau (LogKow):

Aucune information disponible.

Solubilité dans la graisse (g/L):

Aucune information disponible.

9.2. Autres informations

D'autres paramètres physiques et chimiques:

Aucune information disponible.

Capacités oxydantes:

Aucune information disponible.

RUBRIQUE 10: STABILITÉ ET RÉACTIVITÉ

10.1. Réactivité

Aucune information disponible.

10.2. Stabilité chimique

Le produit est stable dans les conditions indiquées à la rubrique 7 (Manipulation et stockage).

10.3. Possibilité de réactions dangereuses

Aucune connue.

10.4. Conditions à éviter

Aucune connue.

10.5. Matières incompatibles

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

10.6. Produits de décomposition dangereux

La décomposition thermique peut produire des vapeurs corrosives.

RUBRIQUE 11: DONNÉES TOXICOLOGIQUES

11.1. Informations sur les effets toxicologiques

Toxicité aiguë

Produit/composant	hydroxyde de potassium;potasse caustique
Espèce :	Rat, mâle
Voie d'exposition :	Orale
Test :	DL50
Valeur :	333 - 388 mg/kg

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	45.4 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Lapin
Test :	LD lo
Valeur :	500 mg/kg

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Corrosion cutanée/irritation cutanée

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Très irritant)

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Effets nocifs observés (Corrosif)

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	Effets nocifs observés (Irritant)

Provoque de graves brûlures de la peau et de graves lésions des yeux.

Lésions oculaires graves/irritation oculaire

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Provoque de graves lésions des yeux)

Produit/composant	hydroxyde de potassium;potasse caustique

Valeur : Effets nocifs observés (Très corrosif)

Produit/composant : hydroxyde de sodium
soude caustique
Méthode d'essai : OCDE 405
Espèce : Lapin
Valeur : Effets nocifs observés (Corrosif)

Provoque de graves lésions des yeux.

Sensibilisation respiratoire

Produit/composant : hydroxyde de potassium;potasse caustique
Valeur : Aucun effet nocif observé (pas sensibilisant)

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Sensibilisation cutanée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Mutagénicité sur les cellules germinales

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Cancérogénicité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité pour la reproduction

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles — exposition unique

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles – exposition répétée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Danger par aspiration

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Effets sur le long terme

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau.
L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

Autres informations

Aucune connue.

RUBRIQUE 12: DONNÉES ÉCOLOGIQUES

12.1. Toxicité

Produit/composant : iT.33 laundry booster pro
Espèce : Andere waterorganismen, Leuciscus idus
Milieu environnemental : Eau
Durée : 96 heures
Test : CL50
Valeur : >100 mg/L

Produit/composant : hydroxyde de sodium
soude caustique
Espèce : Bactéries, Pseudomonas putida
Test : CEO

Conforme au Règlement sur les produits dangereux DORS/2015-17 (tel que modifié par DORS/2022-272)

Valeur : >100 mg/L

Produit/composant : hydroxyde de sodium
soude caustique
Espèce : Daphnie, Ceriodaphnia dubia
Durée : 48 heures
Valeur : 40.4 mg/L

Produit/composant : hydroxyde de sodium
soude caustique
Méthode d'essai : OCDE 203
Espèce : Poisson, Oncorhynchus mykiss
Durée : 96 heures
Test : CL50
Valeur : 45.4 mg/L

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.2. Persistance et dégradabilité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.3. Potentiel de bioaccumulation

Produit/composant : hydroxyde de sodium
soude caustique
Conclusion : Il n'est pas prévu de bioaccumulation

12.4. Mobilité dans le sol

Aucune information disponible.

12.5. Résultats des évaluations PBT et vPvB

Ce mélange/produit ne contient aucune substance considérée comme répondant aux critères de classification comme PBT et/ou vPvB.

12.6. Autres effets néfastes

Aucune connue.

RUBRIQUE 13: DONNÉES SUR L'ÉLIMINATION

Méthodes de traitement des déchets

Aucun des composants n'est répertorié

Étiquetage spécifique

Emballages pollués

Les emballages avec des résidus de produit sont éliminés en suivant les mêmes règles que pour le produit lui-même.

RUBRIQUE 14: INFORMATIONS RELATIVES AU TRANSPORT

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5. Env**	Autres informatio ns :
TDG	UN1719	LIQUIDE ALCALIN CAUSTIQUE, N.S.A. (hydroxyde de potassium;potasse caustique, hydroxyde de sodium soude caustique)	Classe: 8 Étiquettes: 8 Code de classification: C5	II	Non	Quantités limitées: 1 L Code de restriction en tunnels:

Conforme au Règlement sur les produits dangereux DORS/2015-17 (tel que modifié par DORS/2022-272)

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5 Env**	Autres informations :
						(E) Voir ci-dessous pour plus d'informations.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Quantités limitées: 1 L EmS: F-A S-B Voir ci-dessous pour plus d'informations.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Voir ci-dessous pour plus d'informations.

* Groupe d'emballage

** Dangers pour l'environnement

Autre

Le produit est concerné par les conventions sur les marchandises dangereuses.

TDG / Voir Annexe 1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport. Voir partie 3, pour les instructions écrites concernant l'atténuation des dommages en cas d'incidents ou d'accidents pendant le transport.

IMDG / Voir section 3.2.1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

IATA / Voir tableau 4.2 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

14.6. Précautions particulières à prendre par l'utilisateur

Sans objet.

14.7. Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC

Aucune information disponible.

RUBRIQUE 15: INFORMATIONS SUR LA RÉGLEMENTATION

15.1. Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

15.2. Listes canadiennes

LES:

Aucun des composants n'est répertorié

Liste intérieure:

hydroxyde de potassium;potasse caustique

hydroxyde de sodium
soude caustique

15.4. Limites d'utilisation

Réservé aux utilisateurs professionnels.
Les jeunes de moins de 18 ans ne doivent pas être exposés au produit.

15.5. Demandes de formation spécifique

Pas d'exigences particulières.

Autre

Sans objet.

15.7. Évaluation de la sécurité chimique

Non

Sources

Règlement sur les produits dangereux DORS/2015-17 (tel que modifié par DORS/2022-272)

RUBRIQUE 16: AUTRES INFORMATIONS

Précisions sur les phrases H dont il est question dans la rubrique 3

H290, Peut être corrosif pour les métaux.
H302, Nocif en cas d'ingestion.
H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.
H315, Provoque une irritation cutanée.
H318, Provoque de graves lésions des yeux.
H319, Provoque une sévère irritation des yeux.

Précisions sur les utilisations identifiées dont il est question dans la rubrique 1

Aucune connue.

Abréviations et acronymes

ANSI = L'American National Standards Institute
CAS = Numéro du Chemical Abstract Service
COV = Composés Organiques Volatils
DORS = Décrets, Ordonnances et Règlements Statutaires
DPNCA = Dangers physiques non classifiés ailleurs
DSNCA = Dangers pour la santé non classifiés ailleurs
ETA = Estimation de la Toxicité Aiguë
FBC = Facteur de Bioconcentration
IARC = Le Centre international de Recherche sur le Cancer (CIRC)
IATA = Association Internationale du Transport Aérien
IMDG = Maritime international des marchandises dangereuses
LES = Liste extérieure des substances
LogK_{ow} = Coefficient de partage octanol/eau
MARPOL = Convention internationale pour la prévention de la pollution par les navires de 1973, telle que modifiée par le Protocole de 1978. ("MARPOL" = pollution maritime)
NU = Nations Unies
OCDE = Organisation de Coopération et de Développement Economiques
RRN = Numéro d'enregistrement REACH
SCL = Limite de concentration spécifique (LCS).
SGH = Système Général Harmonisé de classification et d'étiquetage des produits chimiques
SIMDUT = Système d'information sur les matières dangereuses utilisées au travail
STEL = Limite d'exposition de courte durée
TDG = Transport des Marchandises Dangereuses
TSOC-ER = Toxicité Spécifique pour certains Organes Cibles - Exposition Répétée

TSOC-EU = Toxicité Spécifique pour certains Organes Cibles - Exposition Unique

TWA = Moyenne pondérée dans le temps

UVBC = Substances de composition inconnue ou variable, produits de réaction complexes ou matières biologiques

Autre

La classification du mélange au regard des risques pour la santé est conforme aux méthodes de calcul fournies par le SIMDUT 2022.

Homologué par

Quality & Compliance

Autre

Les modifications par rapport à la dernière révision importante (premiers chiffres dans la fiche, voir rubrique 1) de cette fiche de données de sécurité sont repérées par un triangle.

Les informations de la présente fiche de données de sécurité sont seulement valables pour ce produit (indiqué à la rubrique 1) et ne sont pas nécessairement valables pour l'utilisation d'autres produits/produits chimiques.

Il est recommandé de donner cette fiche de données de sécurité à l'utilisateur effectif du produit. Les informations de ce document ne peuvent pas être utilisées comme spécification du produit.

Pays-langue : CA-fr

SICHERHEITSDATENBLATT

iT.33 laundry booster pro

ABSCHNITT 1: BEZEICHNUNG DES STOFFS BEZIEHUNGSWEISE DES GEMISCHS UND DES UNTERNEHMENS

1.1. Produktidentifikator

Handelsname:

iT.33 laundry booster pro

Eindeutiger Rezepturidentifikator (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen des Stoffs oder Gemischs:

Wasch- und Reinigungsmittel (einschließlich Produkte auf Lösungsmittelbasis)
Nur für gewerbliche Anwender.

Verwendungen, von denen abgeraten wird:

Keine bekannt.

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Firmenname und Adresse:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Email:

info@hanos.nl

Überarbeitet am:

14.08.2025

SDB Version:

2.0

Datum der letzten Ausgabe:

28.07.2025 (1.0)

1.4. Notrufnummer

Tox Info Suisse: 145 (24 Stunden täglich)

Aus dem Ausland: +41 44 251 51 51

Siehe auch Abschnitt 4 zu Erste-Hilfe-Maßnahmen

ABSCHNITT 2: MÖGLICHE GEFAHREN

Eingestuft gemäß der Verordnung (EG) Nr. 1272/2008 (CLP).

2.1. Einstufung des Stoffs oder Gemischs

Met. Corr. 1; H290, Kann gegenüber Metallen korrosiv sein.

Skin Corr. 1A; H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Eye Dam. 1; H318, Verursacht schwere Augenschäden.

2.2. Kennzeichnungselemente

Gefahrenpiktogramme:



Signalwort:

Gefahr

Gefahrenhinweise:

Kann gegenüber Metallen korrosiv sein. (H290)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden. (H314)

Sicherheitshinweise:

▼ Allgemeines:

Nicht zutreffend.

Prävention:

Dampf/Nebel nicht einatmen. (P260)

Augenschutz/Schutzhandschuhe/Schutzkleidung tragen. (P280)

▼ Reaktion:

BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen oder duschen. (P303+P361+P353)

BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen. (P305+P351+P338)

Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen. (P310)

Lagerung:

In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren. (P406)

Entsorgung:

Inhalt/Behälter gemäß lokalen Vorschriften zuführen. (P501)

Enthält:

Kaliumhydroxid;Ätzkali

Natriumhydroxid;Ätznatron

Andere Kennzeichnungen:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Sonstige Gefahren

Anderes:

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

Dieses Produkt enthält keine Stoffe, die gemäß den Kriterien der Delegierten Verordnung (EU) 2017/2100 der Kommission oder der Verordnung (EU) 2023/707 der Kommission als endokrine Disruptoren gelten.

ABSCHNITT 3: ZUSAMMENSETZUNG/ANGABEN ZU BESTANDTEILEN

3.1. Stoffe

Nicht zutreffend. Dieses Produkt ist ein Gemisch.

3.2. ▼ Gemische

Produkt / Substanz	Identifikatoren	% w/w	Einstufung	Anm.
Kaliumhydroxid;Ätzkali	CAS-Nr.: 1310-58-3 EG-Nr.: 215-181-3 REACH: Indexnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
Natriumhydroxid;Ätznatron	CAS-Nr.: 1310-73-2 EG-Nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Indexnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

Vollständiger Text der H-Sätze - siehe Abschnitt 16. Die Grenzwerte für die Exposition am Arbeitsplatz sind, wenn verfügbar, in Abschnitt 8 wiedergegeben.

Weitere Angaben

-

ABSCHNITT 4: ERSTE-HILFE-MASSNAHMEN

4.1. Beschreibung der Erste-Hilfe-Massnahmen

Allgemeine Hinweise:

Bei Unfällen: Arzt oder Erste-Hilfe-Raum aufsuchen - das Etikett oder dieses Sicherheitsdatenblatt mitbringen.
Bei anhaltenden Symptomen oder Zweifel über den Zustand des Geschädigten ist ärztliche Hilfe aufzusuchen.
Einem Bewusstlosen nie Wasser o.Ä. verabreichen.

Nach Einatmen:

Bei Atembeschwerden oder Reizung der Atemwege: Betroffenen an die frische Luft bringen und beaufsichtigen.

Nach Hautkontakt:

Betroffenen Bereich über einen längeren Zeitraum spülen – mindestens 30 Minuten. Eventuell wird ein Ausspülen über mehrere Stunden erforderlich. Angenehme Wassertemperatur nutzen (20 bis 30 °C).
Giftinformationsstelle/Arzt/Krankenhaus für nähere Beratung zur Nachverfolgung und Behandlung kontaktieren.
Verunreinigte Kleidung und Schuhe entfernen. Haut, die mit dem Material in Kontakt gekommen ist, ist gründlich mit Wasser und Seife zu waschen. Es kann ein Hautreinigungsmittel verwendet werden. KEIN Lösungsmittel oder Verdünner verwenden.
Bei Hautreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Nach Augenkontakt:

Bei Kontakt mit den Augen: Augen sofort mit viel Wasser (20-30 °C) mindestens 30 Minuten lang spülen, bis die Reizung aufhört. Ggf. Kontaktlinsen herausnehmen. Unter dem oberen und unteren Lid spülen. Sofort Arzt aufsuchen. Während des Transports weiter spülen.

Nach Verschlucken:

Bei Einnahme: mit einem Arzt Kontakt. Dem Geschädigten Wasser zu trinken geben, wenn er bei Bewusstsein ist. KEIN Erbrechen erzwingen, es sei denn, der Arzt empfiehlt es. Kopf nach unten halten, um zu vermeiden, dass Erbrochenes zurück in Mund und Hals läuft. Schock vermeiden und den Geschädigten warm und ruhig halten.

Wenn die Atmung aufhört, künstlich beatmen. Bei Bewusstlosigkeit den Geschädigten in die stabile Seitenlage bringen. Krankenwagen rufen.

Verbrennung:

Nicht zutreffend.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

BEI Exposition oder falls betroffen:

Sofort ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Hinweise für den Arzt

Dieses Sicherheitsdatenblatt oder das Etikett des Produktes mitbringen.

ABSCHNITT 5: MASSNAHMEN ZUR BRANDBEKÄMPFUNG

5.1. Löschmittel

Nicht zutreffend.

5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Bei Feuer bildet sich dichter Rauch. Abbauproduktexposition kann eine gesundheitliche Gefahr bedeuten.

Geschlossene, dem Feuer ausgesetzte Behälter sind mit Wasser zu kühlen. Löschwasser nicht in Kanalisation und Fließgewässer gelangen lassen.

Wenn das Produkt hohen Temperaturen ausgesetzt wird, beispielsweise bei Feuer, kann es zu gefährlichen Abbauprodukten kommen. Dabei handelt es sich um:

Einige Metalloxide

5.3. Hinweise für die Brandbekämpfung

Normale Einsatzbekleidung und voller Atemschutz. Wenden Sie sich an die Tox Info Suisse: 145 (24 Stunden täglich), um weitere Ratschläge zu erhalten.

ABSCHNITT 6: MASSNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Direkten Kontakt mit dem ausgetretenen Stoff vermeiden.

Sorgen Sie für ausreichende Belüftung, insbesondere in geschlossenen Räumen.

Kontaminierte Bereiche können rutschig sein.

6.2. Umweltschutzmaßnahmen

Einleitung in Seen, Bäche, Kanalisationen usw. vermeiden.

Halten Sie Unbefugte von dem verschütteten Produkt fern.

6.3. Methoden und Material für Rückhaltung und Reinigung

Verschüttetes Material wird mit nicht brennbaren absorbierenden Materialien wie etwa Sand, Erde, Vermiculit und Diatomeenerde eingedämmt und gemäß den geltenden Regeln in Behältern gesammelt und entsorgt.

Die Reinigung erfolgt soweit möglich mit Reinigungsmitteln. Lösungsmittel sind zu vermeiden.

6.4. Verweis auf andere Abschnitte

Siehe Abschnitt 13 "Hinweise zur Entsorgung" zur Handhabung von Abfällen.

Für Schutzmaßnahmen siehe Abschnitt 8 "Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen".

ABSCHNITT 7: HANDHABUNG UND LAGERUNG

7.1. Schutzmaßnahmen zur sicheren Handhabung

Direkten Kontakt mit dem Produkt vermeiden.
Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.
Siehe Abschnitt 8 zum Persönliche Schutzausrüstungen.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Geöffnete Behälter sorgfältig verschließen und aufrecht lagern, um jegliches Auslaufen zu verhindern.
In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren.

Geeigneten Verpackung:

Nur in Originalverpackung aufbewahren.

Lagerklasse:

Lagerklasse LK 8 (Ätzende und korrosive Verbindungen)

Lagerbedingungen:

Trocken, kühl und gut belüftet.

Unverträgliche Materialien:

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

7.3. Spezifische Endanwendungen

Dieses Produkt sollte nur für Anwendungen in Abschnitt 1.2 verwendet werden.

ABSCHNITT 8: BEGRENZUNG UND ÜBERWACHUNG DER EXPOSITION/PERSÖNLICHE SCHUTZAUSRÜSTUNGEN

8.1. Zu überwachende Parameter

Kaliumhydroxid;Ätzkali
Arbeitsplatzgrenzwert (8 Stunden) (mg/m³): 2 einatembarer Staub(Gesamtstaub)

Natriumhydroxid;Ätznatron
Arbeitsplatzgrenzwert (8 Stunden) (mg/m³): 2 einatembarer Staub(Gesamtstaub)
Kurzzeitwert (15 Minuten) (mg/m³): 2 einatembarer Staub(Gesamtstaub)

Bemerkungen:

SSC = Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

Grenzwerte am Arbeitsplatz: MAK-/BAT-Werte (Erläuterungen), physikalische Einwirkungen, physische Belastungen.
(Publikationsnummer 1903.d)

DNEL

Kaliumhydroxid;Ätzkali

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m ³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m ³

Natriumhydroxid;Ätznatron

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Systemische Auswirkungen - Allgemeine Bevölkerung	Dermal	2 %
Langfristig – Systemische Auswirkungen - Arbeiter	Dermal	<2 %

Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m ³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m ³

PNEC

Natriumhydroxid;Ätznatron

Expositionswege:	Dauer der Aussetzung:	PNEC:
Erde		0.853 mg/kg TG
Kläranlagen		51 mg/L
Pulsierende Freisetzung		3.1 mg/L
Pulsierende Freisetzung (Seewasser)		2.3 mg/kg TG
Seewasser		0.64 mg/L
Süßwasser		6.4 mg/L
Süßwassersedimente		23 mg/kg TG

8.2. Begrenzung und Überwachung der Exposition

Es wird empfohlen die Einhaltung der angegebenen Grenzwerte regelmäßig zu kontrollieren.

Allgemeine Hinweise:

Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.

Expositionsszenarien:

Für dieses Produkt wurden keine Expositionsszenarien implementiert.

Expositionsgrenzwerte:

Für berufliche Benutzer gelten in Bezug auf die maximalen Expositionskonzentrationen die gesetzlichen Vorschriften zu Arbeitshygiene. Siehe die obigen arbeitshygienische Grenzwerte.

Zusätzliche Hinweise zur Gestaltung technischer Anlagen:

Dampfbildung muss auf ein Minimum reduziert werden und unter den aktuellen Grenzwerten liegen (siehe oben).
Wenn der reguläre Luftstrom im Arbeitsraum nicht ausreichend ist, wird die Installation eines lokalen Abluftsystems empfohlen. Not- und Augenduschen müssen deutlich gekennzeichnet sind.
Stellen Sie sicher, dass Augenspülstationen und Notduschen leicht erreichbar sind.
Es gelten die üblichen Vorkehrungsmaßnahmen bei der Verwendung des Produkts. Einatmen von Dämpfen vermeiden.

Hygienemaßnahmen:

Bei jeder Pause in der Produktnutzung und bei Ende der Arbeiten sind exponierte Körperteile zu waschen.
Besonders auf Hände, Unterarme und Gesicht achten.

Begrenzung der Umweltexposition:

Bei Arbeiten mit dem Produkt dafür sorgen, dass Auffangmaterial in unmittelbarer Nähe zur Verfügung steht.
Während der Arbeit möglichst Auffangbehälter verwenden.

Individuelle Schutzmaßnahmen

Allgemeine Schutzmaßnahmen:

Nur Schutzausrüstung mit CE-Kennzeichnung verwenden.

Atemschutz:

Typ	Klasse	Farbe	Normen	
Atemschutz ist im Falle ausreichender Belüftung nicht notwendig.				

Körperschutz:

Empfohlen	Typ/Kategorien	Normen	
Es ist besondere Arbeitskleidung zu tragen.	-	-	

Handschutz:

Arbeitssituation	Material	Minimale Schichtdicke (mm)	Durchbruchzeit (min.)	Normen	
Im Falle längere Exposition oder bei hoher Konzentration	Nitrilkautschuk	0,4	> 480	EN374-2, EN16523-1, EN388	
Im Falle von kurzzeitiger Exposition oder bei niedriger Konzentration	Nitrilkautschuk	1,5	> 30	EN374-2, EN16523-1, EN388	

Augenschutz:

Typ	Normen	
Schutzbrille mit Seitenschutz tragen	EN166	

ABSCHNITT 9: PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Form:

Flüssig

Farbe:

Hellgelb

▼ **Geruch / Geruchsschwelle (ppm):**

Mild

pH:

13.5

Dichte (g/cm³):

1.29 (20 °C)

Kinematische Viskosität:

Es liegen keine Daten vor.

Partikeleigenschaften:

Gilt nicht für Flüssigkeiten.

Zustandsänderungen

Schmelzpunkt/Gefrierpunkt (°C):

Es liegen keine Daten vor.

Erweichungspunkt/-bereich (°C):

Gilt nicht für Flüssigkeiten.

Siedepunkt (°C):

100

Dampfdruck:

Es liegen keine Daten vor.

Relative Dampfdichte:

Es liegen keine Daten vor.

Zersetzungstemperatur (°C):

Es liegen keine Daten vor.

Explosions und Feuer Daten

Flammpunkt (°C):

Es liegen keine Daten vor.

Entzündbarkeit (°C):

Es liegen keine Daten vor.

Zündtemperatur (°C):

Es liegen keine Daten vor.

Explosionsgrenzen (% v/v):

Es liegen keine Daten vor.

Löslichkeit

Löslichkeit in Wasser:

Vollständig löslich

n-Octanol/Wasser Verteilungskoeffizient (LogKow):

Es liegen keine Daten vor.

Löslichkeit in Fett (g/L):

Es liegen keine Daten vor.

9.2. Sonstige Angaben

Weitere physikalische und chemische Parameter:

Es liegen keine Daten vor.

Brandfördernde Eigenschaften:

Es liegen keine Daten vor.

ABSCHNITT 10: STABILITÄT UND REAKTIVITÄT

10.1. Reaktivität

Es liegen keine Daten vor.

10.2. Chemische Stabilität

Das Produkt ist unter den in Abschnitt 7 aufgeführten Bedingungen stabil.

10.3. Möglichkeit gefährlicher Reaktionen

Keine bekannt.

10.4. Zu vermeidende Bedingungen

Keine bekannt.

10.5. Unverträgliche Materialien

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

10.6. Gefährliche Zersetzungsprodukte

Bei thermischer Zersetzung können ätzende Dämpfe entstehen.

ABSCHNITT 11: TOXIKOLOGISCHE ANGABEN

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Akute Toxizität

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Spezies:	Ratte, männlichen
Expositionswegen:	Oral
Test:	LD50
Ergebnis:	333 - 388 mg/kg

Produkt / Substanz	Natriumhydroxid;Ätznatron
Ergebnis:	45.4 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Kaninchen
Test:	LD lo
Ergebnis:	500 mg/kg

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Ätz-/Reizwirkung auf die Haut

Produkt / Substanz	iT.33 laundry booster pro
Ergebnis:	Schädliche Wirkungen beobachtet (Stark reizend)

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Ergebnis:	Schädliche Wirkungen beobachtet (Ätzend)

Produkt / Substanz	Natriumhydroxid;Ätznatron
Ergebnis:	Schädliche Wirkungen beobachtet (Reizend)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Schwere Augenschädigung/-reizung

Produkt / Substanz	iT.33 laundry booster pro
Ergebnis:	Schädliche Wirkungen beobachtet (Verursacht schwere Augenschäden)

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Ergebnis:	Schädliche Wirkungen beobachtet (Stark ätzend)

Produkt / Substanz	Natriumhydroxid;Ätznatron
Prüfmethode:	OECD 405
Spezies:	Kaninchen
Ergebnis:	Schädliche Wirkungen beobachtet (Ätzend)

Verursacht schwere Augenschäden.

Sensibilisierung der Atemwege

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Ergebnis:	Keine schädlichen Wirkungen beobachtet (nicht sensibilisierend)

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Sensibilisierung der Haut

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Keimzell-Mutagenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Karzinogenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Reproduktionstoxizität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei einmaliger Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei wiederholter Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Aspirationsgefahr

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.2. Angaben über sonstige Gefahren

Zusätzliche toxikologische Hinweise

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Gesundheit hormonstörende Eigenschaften aufweisen.

Sonstige Angaben

Keine bekannt.

ABSCHNITT 12: UMWELTBEZOGENE ANGABEN

12.1. Toxizität

Produkt / Substanz	iT.33 laundry booster pro
Spezies:	Andere waterorganismen, Leuciscus idus
Umwelt-kompartiment :	Wasser
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Bakterien, Pseudomonas putida
Test:	EC0
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Wasserflöhe, Ceriodaphnia dubia
Prüfdauer:	48 Stunden
Ergebnis:	40.4 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Prüfmethode:	OECD 203
Spezies:	Fisch, Oncorhynchus mykiss
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	45.4 mg/L

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.2. Persistenz und Abbaubarkeit

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.3. Bioakkumulationspotenzial

Produkt / Substanz Natriumhydroxid;Ätznatron
Ergebnis: Bioakkumulation nicht erwartet

12.4. Mobilität im Boden

Es liegen keine Daten vor.

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

12.6. Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Umwelt endokrinschädigende Eigenschaften aufweisen.

12.7. Andere schädliche Wirkungen

Keine bekannt.

ABSCHNITT 13: HINWEISE ZUR ENTSORGUNG

13.1. Verfahren der Abfallbehandlung

Das Produkt sollte als gefährlicher Abfall behandelt werden. (*)

HP 8 - Ätzend

Inhalt/Behälter zugelassenem Entsorger oder kommunaler Sammelstelle zuführen.

VERORDNUNG (EU) Nr. 1357/2014 der Kommission vom 18. Dezember 2014 über Abfälle.

Abfallschlüsselnr. (EWC):

20 01 29* Reinigungsmittel, die gefährliche Stoffe enthalten

Ungereinigte Verpackungen

Verpackungen mit Produktrückständen sind nach den gleichen Bedingungen zu entsorgen, wie das Produkt selbst.

ABSCHNITT 14: ANGABEN ZUM TRANSPORT

	14.1 UN	14.2 Ordnungsgemäße UN- Versandbezeichnung	14.3 Transportgefahrenklassen	14.4 PG*	14.5. Env**	Weitere Angaben:
ADR	UN1719	ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (Kaliumhydroxid;Ätzkali, Natriumhydroxid;Ätznatron)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L Tunnelbeschränkung code: (E) Nähere Informationen siehe unten.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L EmS: F-A S-B Nähere Informationen

	14.1 UN	14.2 Ordnungsgemäße UN- Versandbezeichnung	14.3 Transportgefahrenklassen	14.4 PG*	14.5. Env**	Weitere Angaben:
						nen siehe unten.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Nähere Informatio nen siehe unten.

* Verpackungsgruppe

** Umweltgefahren

Anderes

Das Produkt fällt unter die Gefahrgutkonventionen.

ADR / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle A, Abschnitt 3.2.1. Schriftliche Anweisungen zur Schadensvermeidung bei transportbezogenen Un- oder Zwischenfällen siehe Abschnitt 5.4.3.

IMDG / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Abschnitt 3.2.1.

IATA / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle 4.2.

14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Nicht zutreffend.

14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten

Es liegen keine Daten vor.

ABSCHNITT 15: RECHTSVORSCHRIFTEN

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Nutzungsbeschränkungen:

Nur für gewerbliche Anwender.

Bedarf für spezielle Schulung:

Keine besonderen Anforderungen.

Der Störfallverordnung - Gefahrenkategorien / Namentlich aufgeführte gefährliche Stoffe:

Gesundheitsgefahren (H311, H312, H314, H332 oder H371), Mengenschwelle = 20.000 kg

WGK-Einstufung:

Wassergefährdungsklasse: WGK 1

Anderes:

Nicht zutreffend.

Verwendete Quellen:

Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – ArbSchG).

SR 814.81 Verordnung zur Reduktion von Risiken beim Umgang mit bestimmten besonders gefährlichen Stoffen, Zubereitungen und Gegenständen (Chemikalien-Risikoreduktions-Verordnung, ChemRRV) vom 18. Mai 2005 (Anhang 2.1)

SR 814.12 Verordnung über den Schutz vor Störfällen (Störfallverordnung, StFV) vom 27. Februar 1991 (Stand am 1. August 2019)

SR 814.610 Verordnung über den Verkehr mit Abfällen (VeVA) vom 22. Juni 2005 (Stand am 1. Januar 2020)

SR 814.610.1 Verordnung des UVEK über Listen zum Verkehr mit Abfällen vom 18. Oktober 2005 (Stand am 1. Januar 2018)

SR 813.11 Verordnung über den Schutz vor gefährlichen Stoffen und Zubereitungen (Chemikalienverordnung, ChemV) vom 5. Juni 2015 (Stand am 1. April 2020)

15.2. Stoffsicherheitsbeurteilung

Nein

ABSCHNITT 16: SONSTIGE ANGABEN

H-Sätze (Abschnitt 3)

H290, Kann gegenüber Metallen korrosiv sein.

H302, Gesundheitsschädlich bei Verschlucken.

H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H315, Verursacht Hautreizungen.

H318, Verursacht schwere Augenschäden.

H319, Verursacht schwere Augenreizung.

Abkürzungen und Akronyme

ADN = Europäisches Übereinkommen über die internationale Beförderung von gefährlichen Gütern auf Binnenwasserstrassen

ADR = Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Strasse

ak = andere kontrollpflichtige Abfälle

akb = andere kontrollpflichtige Abfälle mit Begleitscheinplicht

ATE = Schätzwert akute Toxizität

BCF = Biokonzentrationsfaktor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (Europäische Konformität)

CLP = Verordnung über die Einstufung, Kennzeichnung und Verpackung [Verordnung (EG) Nr. 1272/2008]

CSA = Stoffsicherheitsbeurteilung

CSR = Stoffsicherheitsbericht

DMEL = Abgeleiteter Minimaler-Effekt-Grenzwert

DNEL = Abgeleiteter Nicht-Effekt-Grenzwert

EAK = Europäischer Abfallkatalog

EINECS = Altstoffverzeichnis

ES = Expositionsszenario EUH-Satz = CLP-spezifischer Gefahrenhinweis

EuPCS = Europäisches Produktkategorisierungssystem

GHS = Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien

GWP = Potenzial zur Erwärmung der Erdatmosphäre

IATA = Internationale Flug-Transport-Vereinigung

IBC = Intermediate Bulk Container

IMDG = Gefährliche Güter im internationalen Seeschiffsverkehr

LogPow = Dekadischer Logarithmus des Oktanol-Wasser-Verteilungskoeffizienten

MARPOL = Internationales Übereinkommen von 1973 zur Verhütung der Meeresverschmutzung durch Schiffe in der Fassung des Protokolls von 1978. ("Marpol" = marine pollution)

nwg = Nicht wassergefährdend

OECD = Organisation für wirtschaftliche Zusammenarbeit und Entwicklung

PBT = Persistent, bioakkumulierbar und toxisch

PNEC = Abgeschätzte Nicht-Effekt-Konzentration

RID = Regelung zur internationalen Eisenbahnbeförderung gefährlicher Güter

RRN = REACH Registriernummer

S = Sonderabfälle

SCL = Spezifischen Konzentrationsgrenzwert.

SVHC = Besonders besorgniserregende Substanzen

STOT-RE = Spezifische Zielorgan-Toxizität - Wiederholte Exposition

STOT-SE = Spezifische Zielorgan-Toxizität - Einmalige Exposition

UN = Vereinigte Nationen

UVCB = Stoffe mit unbekannter oder variabler Zusammensetzung, komplexe Reaktionsprodukte und biologische Materialien.

VOC = Flüchtige organische Verbindungen

vPvB = Sehr persistent und sehr bioakkumulierbar

WGK = Wassergefährdungsklasse

Anderes

Die Klassifizierung der Mischung hinsichtlich der Gesundheitsgefahren entspricht den von der Verordnung (EU) Nr. 1272/2008 (CLP) vorgegebenen Berechnungsmethoden.

Sicherheitsdatenblatt abgenommen durch

Quality & Compliance

Anderes

Änderungen im Verhältnis zur letzten umfassenden Revision (erste Ziffer in der SDS-Version, s. Abschnitt 1) dieses Sicherheitsdatenblatts sind mit einem Dreieck markiert.

Angaben in diesem Sicherheitsdatenblatt gelten nur für das Produkt in Abschnitt 1 und gelten nicht unbedingt bei Einsatz zusammen mit anderen Produkten.

Es wird empfohlen, dem tatsächlichen Produktbenutzer dieses Sicherheitsdatenblatt auszuhändigen. Die erwähnten Angaben sind nicht als Produktspezifikation zu verwenden.

Land-sprache: CH-de

HOJAS DE DATOS DE SEGURIDAD

iT.33 laundry booster pro

SECCIÓN 1. IDENTIFICACIÓN DE LA SUSTANCIA O MEZCLA Y DE LA SOCIEDAD O EMPRESA

Nombre de la sustancia química peligrosa o mezcla

Nombre comercial:
iT.33 laundry booster pro

Uso recomendado de la sustancia química peligrosa o mezcla, y restricciones de uso

Usos pertinentes identificados de la sustancia o de la mezcla:
Agentes de lavado y limpieza (incluso a base de disolventes)
Reservado exclusivamente a usuarios profesionales.

Usos desaconsejados:
Ningunos conocidos.

Datos del proveedor o fabricante

Nombre y dirección de la empresa:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Correo electrónico:
info@hygeniq.com

HDS diseñada el:
14-08-2025

Versión HDS:
2.0

Fecha de la emisión anterior:
28-07-2025 (1.0)

Número de teléfono en caso de emergencia

CITUC Información Toxicológica
Emergencias químicas: Tel: +56 2 2 247 3600 (24h/365 días)
Consulte la sección 4 para obtener información sobre primeros auxilios.

SECCIÓN 2. IDENTIFICACIÓN DEL PELIGRO O LOS PELIGROS

Clasificado de acuerdo con Reglamento de clasificación, etiquetado y notificación de sustancias químicas y mezclas peligrosas.

▼ Clasificación de la sustancia o de la mezcla

Met. Corr. 1; H290, Puede ser corrosivo para los metales.

Skin Corr. 1A; H314, Provoca quemaduras graves en la piel y lesiones oculares graves.

Eye Dam. 1; H318, Provoca lesiones oculares graves.

Elementos de la señalización

Pictogramas de precaución:



Palabra de advertencia:

Peligro

▼ Indicaciones de peligro:

Puede ser corrosivo para los metales. (H290)

Provoca quemaduras graves en la piel y lesiones oculares graves. (H314)

Consejos de prudencia:

▼ Generalidades:

No aplicable.

Prevención:

No respirar los vapores/la niebla. (P260)

Llevar gafas/guantes/prendas de protección. (P280)

Intervención:

EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua o ducharse. (P303+P361+P353)

EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. (P305+P351+P338)

Almacenamiento:

Almacenar en un recipiente con revestimiento interior resistente. (P406)

Eliminación:

Eliminar el contenido/el recipiente De conformidad con la normativa local (P501)

Identificación de las sustancias principalmente responsables de los riesgos graves para la salud:

hidróxido de potasio;potasa cáustica

hidróxido de sodio

Etiquetado adicional:

No aplicable.

SECCIÓN 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

Sustancias

No aplicable. Este producto es una mezcla.

▼ Mezclas

Producto / ingrediente	Identificadores	% w/w	Clasificación	Notas
hidróxido de potasio;potasa cáustica	Nº CAS: 1310-58-3 Nº CE: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1, H314 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %)	

			Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hidróxido de sodio	Nº CAS: 1310-73-2 Nº CE: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1, H314 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

La redacción completa de las frases H se encuentra en la sección 16. Los límites de las condiciones laborales correctas se mencionan en la sección 8, siempre y cuando sean accesibles.

Otra información

-

SECCIÓN 4. PRIMEROS AUXILIOS

Descripción de los primeros auxilios

General:

En caso de accidente: Póngase en contacto con el médico o vaya a emergencias. Llévase la etiqueta o esta hoja de datos de seguridad.

Si los síntomas son permanentes o si tiene alguna duda sobre la situación del accidentado, consulte a un médico.

Nunca dé agua ni nada parecido a una persona inconsciente.

Inhalación:

En caso de dificultades respiratorias o irritación del tracto respiratorio: Lleve a la persona a un lugar en el que pueda respirar aire fresco y no la deje sin supervisión.

Contacto con la piel:

Enjuague el área expuesta con agua durante mucho tiempo, al menos 30 minutos. Puede ser necesario enjuagar durante varias horas. Use una temperatura de agua cómoda (20-30 °C). Comuníquese con Información sobre intoxicaciones/médico/hospital para obtener más consejos sobre el seguimiento y el tratamiento.

Retire enseguida la ropa y calzado contaminado. Lave bien con agua y jabón la piel que haya estado en contacto con el material. Puede utilizar productos de higiene cutánea. NO utilice disolventes ni diluyentes.

En caso de irritación cutánea: Consultar a un médico.

Contacto con los ojos:

En caso de contacto con los ojos: Y enjuáguese los ojos con agua abundante (20-30 °C) hasta que la irritación desaparezca, y al menos durante 30 minutos. Quítense las lentes de contacto. Asegúrese de enjuagar bien los párpados. A continuación consulte a un médico. Busque asistencia médica inmediatamente y continúe enjuagando durante el transporte.

Ingestión:

En caso de ingestión avise inmediatamente a un médico. Dé agua al accidentado si recupera la consciencia. No intente provocar el vómito a no ser que el médico lo recomiende. Coloque la cabeza baja de modo que si vomita, no se trague el vómito. Para prevenir shocks mantenga al accidentado caliente y tranquilo. Si deja de respirar, hágale la respiración artificial. Si pierde la consciencia coloque al accidentado en posición lateral de seguridad. Llame a una ambulancia.

Quemadura:

No aplicable.

Síntomas y efectos más importantes, agudos y crónicos

Efectos sobre los tejidos: El producto contiene sustancias corrosivas. Si se inhalan vapores o aerosoles puede provocar daños a los pulmones e irritación y escozor en el sistema respiratorio, así como tos. La sustancia corrosiva provoca daños irreversibles en los ojos y daña la piel.

Indicación de la necesidad de recibir atención médica inmediata y, en su caso, tratamiento especial

EN CASO DE exposición manifiesta o presunta:

Consultar a un médico inmediatamente.

Explicación para el médico

Lleve esta hoja de datos de seguridad o la etiqueta del material.

SECCIÓN 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

Medios de extinción apropiados

No aplicable.

Peligros específicos de las sustancias químicas peligrosas o mezclas

En caso de incendio se genera un humo denso. La exposición a productos en descomposición puede representar un peligro para la salud. Los contenedores cerrados expuestos al fuego deben enfriarse con agua. No deje que el agua utilizada para apagar el fuego se vierta en la alcantarillado ni cursos de agua.

Si el producto queda expuesto a altas temperaturas, por ejemplo en caso de incendio, pueden generarse productos en descomposición peligrosos. En concreto:

Algunos óxidos metálicos

Medidas especiales que deberán seguir los grupos de combate contra incendio

Indumentaria normal de extinción y protección respiratoria total. En caso de contacto directo con la sustancia química el jefe de equipo deberá ponerse en contacto con el CITUC, Teléfono: +56 2 2 247 3600 para recibir instrucciones.

SECCIÓN 6. MEDIDAS QUE DEBEN TOMARSE EN CASO DE VERTIDO/DERRAME ACCIDENTAL

Precauciones personales, equipos de protección y procedimientos de emergencia

Evite el contacto directo con el producto vertido.

Asegure una ventilación adecuada, especialmente en áreas confinadas.

Las áreas contaminadas pueden ser resbaladizas.

Precauciones relativas al medio ambiente

Evite los vertidos en lagos, ríos, alcantarillas y demás.

Mantenga a las personas no autorizadas alejadas del derrame.

Métodos y materiales para la contención y limpieza de derrames o fugas

Contenga y recoja los derrames con material absorbente no combustible, por ejemplo: arena, tierra, vermiculita o tierra de diatomeas y colocar en un recipiente para su eliminación de acuerdo con las normas locales.

Siempre que sea posible, efectúe la limpieza con detergentes. Evite utilizar disolventes.

Referencia a otras secciones

Consulte la sección 13 "Consideraciones relativas a la eliminación" sobre el manejo de desechos.

Consulte la sección 8 "Controles de exposición/protección individual" para conocer las disposiciones de seguridad.

SECCIÓN 7. MANIPULACIÓN Y ALMACENAMIENTO

Precauciones que se deben tomar para garantizar un manejo seguro

Evite el contacto directo con el producto.

No está permitido fumar, comer ni beber en el lugar de trabajo.

Consulte la sección "Controles de exposición/protección individual" para conocer las disposiciones de seguridad personal.

Condiciones de almacenamiento seguro, incluida cualquier incompatibilidad

Los envases abiertos deben cerrarse perfectamente con cuidado y mantenerse en posición vertical para evitar derrames.

Almacenar en un recipiente con revestimiento interior resistente.

Consulte el Reglamento de almacenamiento de sustancias peligrosas (Decreto 78) para obtener más orientación.

Compatibilidades de embalaje:

Conservar únicamente en el embalaje original.

Temperatura de almacenamiento:

Conservar en lugar fresco, seco y bien ventilado

Materiales incompatibles:

Ácidos fuertes, alcalinos fuertes, oxidantes fuertes y agentes reductores fuertes.

Usos específicos finales

Este producto sólo debe utilizarse para los fines descritos en la sección 1.2.

SECCIÓN 8. CONTROLES DE EXPOSICIÓN/PROTECCIÓN PERSONAL

Parámetros de control

hidróxido de sodio

Ceiling value (mg/m³): 2

Reglamento sobre condiciones sanitarias y ambientales básicas en los lugares de trabajo. Decreto supremo n°594/99.

Controles de la exposición

Compruebe regularmente que no se superan los valores límite indicados.

Medidas de precaución generales:

No está permitido fumar, comer ni beber en el lugar de trabajo.

Escenarios de exposición:

No hay escenarios de exposición implementados para este producto.

Límites de exposición:

Los usuarios profesionales quedan cubiertos a las normas de la legislación medioambiental relativa a máximas concentraciones de exposición. Consulte los límites laborales a arriba.

Controles técnicos apropiados:

La formación de vapor se debe mantener al mínimo y por debajo de los valores del límite de corriente (ver arriba).

Se recomienda instalar un sistema de extracción local si el flujo de aire normal en la sala de trabajo no es suficiente. Asegúrese de que los limpiadores de ojos y las duchas de emergencia estén claramente indicadas.

Asegúrese de que las estaciones de lavado de ojos y las duchas de seguridad estén ubicadas en un lugar de fácil acceso.

Tome precauciones estándar durante el uso de este producto. Evite la inhalación de vapores.

Disposiciones higiénicas:

En cada pausa del uso del producto y al finalizar el trabajo limpie las zonas del cuerpo expuestas. Preste especial atención a las manos, los antebrazos y la cara.

Disposiciones para limitar la exposición del entorno:

Asegúrese de disponer de medios de contención en las inmediaciones al trabajar con el producto. Si es posible, utilice bandejas de rebose durante el trabajo.

Medidas de protección individual, como equipo de protección personal, EPP

General:

Solamente utilizar equipos de protección con la marca CE.

Protección de las vías respiratorias:

Tipo	Clase	Color	Normas	
No se necesita protección respiratoria en caso de ventilación adecuada.				

Protección de la piel:

Recomendado	Tipo/Categoría	Normas	
Debería utilizarse ropa de trabajo específica.	-	-	

Manos:

La situación de trabajo	Material	Espesura mínima de capa (mm)	Tiempo de penetración (min.)	Normas	
En caso de exposición prolongada o de altas concentraciones	Caucho de nitrilo	0,4	> 480	EN374-2, EN16523-1, EN388	
En caso de exposición por breve tiempo o a bajas concentraciones	Caucho de nitrilo	1,5	> 30	EN374-2, EN16523-1, EN388	

Protección de los ojos y la cara:

Tipo	Normas	
Use gafas de seguridad con protección lateral.	EN166	

SECCIÓN 9. PROPIEDADES FÍSICAS Y QUÍMICAS

Información sobre propiedades físicas y químicas básicas

Estado físico:

Líquido

Color:

Amarillo claro

▼ Olor:

Suave

Umbral del olor (ppm):

No se dispone de datos.

Potencial de hidrógeno, pH:

13,5

Densidad (g/cm³):

1,29 (20 °C)

Viscosidad:

No se dispone de datos.

Cambio de estado y vapores

Punto de fusión/punto de congelación (°C):

No se dispone de datos.

El punto o intervalo/reblandecimiento (°C):

No se aplica a los líquidos.

Punto inicial e intervalo de ebullición (°C):

100

Presión de vapor:

No se dispone de datos.

Densidad de vapor:

No se dispone de datos.

Temperatura de descomposición (°C):

No se dispone de datos.

Tasa de evaporación (acetato de n-butilo = 100):

Datos de riesgo de incendio y explosión

Inflamabilidad (°C):

No se dispone de datos.

Inflamabilidad (°C):

No se dispone de datos.

Temperatura de ignición espontánea (°C):

No se dispone de datos.

Límite superior/inferior de inflamabilidad o explosividad (% v/v):

No se dispone de datos.

Solubilidad

Solubilidad en agua:

Completamente soluble

Coefficiente de partición n-octanol/agua:

No se dispone de datos.

Solubilidad en grasa (g/L):

No se dispone de datos.

Otros datos relevantes

Otros parámetros físicos y químicos:

No se dispone de datos.

Propiedades oxidantes:

No se dispone de datos.

SECCIÓN 10. ESTABILIDAD Y REACTIVIDAD

Reactividad

No se dispone de datos.

Estabilidad química

El producto es estable bajo las condiciones indicadas en la sección 7 "Manipulación y almacenamiento".

Posibilidad de reacciones peligrosas

Ningunos conocidos.

Condiciones que deberán evitarse

Ningunos conocidos.

Materiales incompatibles

Ácidos fuertes, alcalinos fuertes, oxidantes fuertes y agentes reductores fuertes.

Productos de descomposición peligrosos

La descomposición térmica puede producir vapores corrosivos.

SECCIÓN 11. INFORMACIÓN TOXICOLÓGICA

Información sobre los efectos toxicológicos

Toxicidad aguda

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Especies:	Rata, macho
Vía de exposición:	Oral
Prueba:	DL50
Resultado:	333 - 388 mg/kg

Producto / ingrediente	hidróxido de sodio
Resultado:	45.4 mg/L

Producto / ingrediente	hidróxido de sodio
Especies:	Conejo
Prueba:	LD lo
Resultado:	500 mg/kg

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas

Producto / ingrediente	iT.33 laundry booster pro
Resultado:	Se observan efectos adversos (Altamente irritante)

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Resultado:	Se observan efectos adversos (Corrosivo)

Producto / ingrediente	hidróxido de sodio
Resultado:	Se observan efectos adversos (Irritante)

Provoca quemaduras graves en la piel y lesiones oculares graves.

Lesiones o irritación ocular graves

Producto / ingrediente	iT.33 laundry booster pro
Resultado:	Se observan efectos adversos (Provoca lesiones oculares graves)

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Resultado:	Se observan efectos adversos (Altamente corrosivo)

Producto / ingrediente	hidróxido de sodio
Método de ensayo:	OCDE 405
Especies:	Conejo
Resultado:	Se observan efectos adversos (Corrosivo)

Provoca lesiones oculares graves.

Sensibilización respiratoria

Producto / ingrediente hidróxido de potasio;potasa cáustica
Resultado: No se observan efectos adversos (no sensibilizantes)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Sensibilización cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Mutagenicidad en células germinales

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Carcinogenicidad

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad para la reproducción

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad sistémica específica del órgano blanco - Exposición única

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad sistémica específica del órgano blanco - Exposiciones repetidas

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Peligro por aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Efectos a largo plazo

Efectos sobre los tejidos: El producto contiene sustancias corrosivas. Si se inhalan vapores o aerosoles puede provocar daños a los pulmones e irritación y escozor en el sistema respiratorio, así como tos. La sustancia corrosiva provoca daños irreversibles en los ojos y daña la piel.

SECCIÓN 12. INFORMACIÓN ECOTOXICOLÓGICA

Toxicidad

Producto / ingrediente iT.33 laundry booster pro
Especies: Andere waterorganismen, Leuciscus idus
Compartimento
medioambiental: Agua
Duración: 96 horas
Prueba: CL50
Resultado: >100 mg/L

Producto / ingrediente hidróxido de sodio
Especies: Bacterias, Pseudomonas putida
Prueba: CE0
Resultado: >100 mg/L

Producto / ingrediente hidróxido de sodio
Especies: Daphnia, Ceriodaphnia dubia
Duración: 48 horas
Resultado: 40.4 mg/L

Producto / ingrediente hidróxido de sodio
Método de ensayo: OCDE 203
Especies: Pez, Oncorhynchus mykiss
Duración: 96 horas
Prueba: CL50
Resultado: 45.4 mg/L

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Persistencia y degradabilidad

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Potencial de bioacumulación

Producto / ingrediente: hidróxido de sodio
Conclusión: No se espera bioacumulación

Movilidad en el suelo

No se dispone de datos.

Resultados de la valoración PBT y mPmB

No se considera que esta combinación/producto contenga sustancias que cumplan los criterios de clasificación como PBT y/o mPmB.

Otros efectos adversos

Ningunos conocidos.

SECCIÓN 13. INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LA SUSTANCIA O MEZCLA

Métodos para el tratamiento de residuos

Eliminar el contenido/el recipiente en un punto de recogida de residuos especiales.
El producto está bajo las Reglamento sanitario sobre manejo de residuos peligrosos.

Contenedor contaminado

Los embalajes con restos del producto deben eliminarse siguiendo el mismo procedimiento que el resto del producto.

SECCIÓN 14. INFORMACIÓN RELATIVA AL TRANSPORTE

	14.1 ONU	14.2 Designación oficial de transporte	14.3 Clase(s) de peligro	14.4 PG*	14.5. Env**	Otra información:
ADR	UN1719	LÍQUIDO ALCALINO CAÚSTICO N.E.P. (hidróxido de potasio; potasa cáustica, hidróxido de sodio)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Cantidades limitadas: 1 L Código de restricción en túneles: (E) Véase a continuación para obtener información adicional
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash, sodium hydroxide; caustic soda)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Cantidades limitadas: 1 L EmS: F-A S-B Véase a continuación para obtener

	14.1 ONU	14.2 Designación oficial de transporte	14.3 Clase(s) de peligro	14.4 PG*	14.5. Env**	Otra información:
						información adicional
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Véase a continuación para obtener información adicional

* Grupo de embalaje

** Peligros para el medio ambiente

Otros

El producto está cubierto por las convenciones relativas a productos peligrosos.

NCh382 / Consultar la tabla A, sección 3.2.1, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte. Consultar la sección 5.4.3 para obtener instrucciones por escrito sobre la mitigación de daños en relación con incidentes o accidentes durante el transporte.

IMGD / Consultar la sección 3.2.1, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte.

IATA / Consultar la tabla 4.2, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte.

Hazchem Code: 2R

Precauciones especiales para el usuario

No aplicable.

Transporte a granel con arreglo al anexo II de MARPOL 73/78 y al Código CIQ (IBC por sus siglas en inglés).

No se dispone de datos.

SECCIÓN 15. INFORMACIÓN SOBRE LA REGLAMENTACIÓN

Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla

Limitaciones de uso:

Reservado exclusivamente a usuarios profesionales.

El producto no puede ser utilizado profesionalmente por menores de 18 años.

Requisitos de formación específica:

No tiene requisitos específicos.

Otra información:

No aplicable.

Fuentes:

Decreto 148. Aprueba reglamento sanitario sobre manejo de residuos peligrosos ministerio de salud (Fecha Publicación: 16-jun-2004).

Decreto 78, Reglamento de almacenamiento de sustancias peligrosas (11-Sep-2010)

Reglamento sobre condiciones sanitarias y ambientales básicas en los lugares de trabajo. Decreto supremo n°594/99.

Código del Trabajo, Dirección del Trabajo, Octubre 2018 (Ley 18.620)

Reglamento sobre prevención de riesgos profesionales (Decreto Supremo N° 40 de 1969)

Reglamento de clasificación, etiquetado y notificación de sustancias químicas y mezclas peligrosas. Núm. 57, Santiago, 26 de noviembre de 2019.

Evaluación de la seguridad química

No

SECCIÓN 16. OTRAS INFORMACIONES

Redacción completa de las frases H descrita en la sección 3

H290, Puede ser corrosivo para los metales.
H302, Nocivo en caso de ingestión.
H314, Provoca quemaduras graves en la piel y lesiones oculares graves.
H315, Provoca irritación cutánea.
H318, Provoca lesiones oculares graves.
H319, Provoca irritación ocular grave.

Redacción completa de los usos identificados mencionados de la sección 1

Ningunos conocidos.

Siglas o abreviaturas

CAS = Servicio de Resúmenes Químicos
COV = Compuestos Orgánicos Volátiles
DOF = Diario Oficial de la Federación
EINECS = Inventario Europeo de Sustancias Químicas Existentes Comercializadas
ETA = Estimación de Toxicidad Aguda
FBC = Factor de Bioconcentración
GHS = Sistema Globalmente Armonizado de Clasificación y Etiquetado de Productos Químicos (SGA)
IARC = Agência Internacional de Pesquisa em Câncer
IATA = Asociación de Transporte Aéreo Internacional
IBC = Contenedor intermedio para productos a granel
IMDG = Código Marítimo Internacional de Mercancías Peligrosas
Log K_{oc} = coeficiente de adsorción del suelo
Log K_{ow} = logaritmo del coeficiente de reparto octanol/agua
MARPOL = Convenio Internacional para Prevenir la Contaminación por los Buques, 1973 con el Protocolo de 1978.
("Marpol" = polución marina)
mPmB = Muy Persistente y Muy Bioacumulativa
NCh = Normas Chilenas
OCDE = Organización de Cooperación y Desarrollo Económico
ONU = Organización de las Naciones Unidas
PBT = Persistente, Bioacumulativo y Tóxico
RID = Reglamento de Transporte Internacional de Mercancías Peligrosas por Ferrocarril
SCL = Límite de concentración específico (LCE).
SGA = Sistema Globalmente Armonizado
STOT-RE = Toxicidad Específica en Determinados Órganos - Exposiciones Repetidas
STOT-SE = Toxicidad Específica en Determinados Órganos - Exposición Única
STPS = Secretario del Trabajo y Previsión Social
UVCB = Significa sustancias de composición desconocida o variable, productos de reacción complejos y materiales biológicos

Otra información

La clasificación de la mezcla en relación a los riesgos para la salud se conforme a los métodos de cálculo que se indican en el Reglamento de clasificación, etiquetado y notificación de sustancias químicas y mezclas peligrosas.

Ficha de datos de seguridad es validada por

Quality & Compliance

Otros

Las modificaciones en relación a la presente revisión (primera cifra en la Versión FDS, véase sección 1) de esta hoja de datos de seguridad se marcan con un triángulo.

La información que contiene esta hoja de la ficha de datos de seguridad se aplica únicamente al producto indicado en la sección 1 y no tiene por qué ser aplicable si se utiliza con otros productos.

Se recomienda entregar esta hoja de la ficha de datos de seguridad al usuario del producto. La información indicada no se puede utilizar como ficha técnica del producto.

País-idioma: CL-es

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against:

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

National Poison Control Center, Chinese Center for Disease Control and Prevention: +86-10-12320 (24 h emergency call)

SECTION 2: HAZARDS IDENTIFICATION

Classified according to the chemical classification standards: GB 30000.2-2013 to GB 30000.29-2013.

2.1. ▼ Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	

sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call Shang Hai center of toxic chemicals information & consultation (+86 400-6267-911) and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact National Poison Control Center, Chinese Center for Disease Control and Prevention: +86-10-12320 in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed in GBZ 2.1-2019 with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient:

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50

According to China GHS Standards: GB/T 16483-2008 and GB/T 17519-2013

Result: 333 - 388 mg/kg

Product/substance sodium hydroxide;caustic soda
Result: 45.4 mg/L

Product/substance sodium hydroxide;caustic soda
Species: Rabbit
Test: LD lo
Result: 500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance iT.33 laundry booster pro
Result: Adverse effect observed (Highly irritating)

Product/substance potassium hydroxide;caustic potash
Result: Adverse effect observed (Corrosive)

Product/substance sodium hydroxide;caustic soda
Result: Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance iT.33 laundry booster pro
Result: Adverse effect observed (Causes serious eye damage)

Product/substance potassium hydroxide;caustic potash
Result: Adverse effect observed (Highly corrosive)

Product/substance sodium hydroxide;caustic soda
Test method: OECD 405
Species: Rabbit
Result: Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance potassium hydroxide;caustic potash
Result: No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

According to China GHS Standards: GB/T 16483-2008 and GB/T 17519-2013

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

IECSC:

potassium hydroxide;caustic potash is listed

sodium hydroxide;caustic soda is listed

Sources:

Regulations on the Safety Administration of Dangerous Chemicals (No.591)

GB30000.1-2024 Rules for classification and labelling of chemicals

GB13690-2009 General rule for classification and hazard communication of chemicals

List of hazardous chemicals (2015)

GB15258-2009 General rules for preparation of precautionary label for chemicals

GB/T 16483-2008 Safety data sheet for chemical products- Content and order of sections

GB/T 17519-2013 Guidance on the compilation of safety data sheet for chemical products

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the chemical classification standards: GB 30000.2-2013 to GB 30000.29-2013

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: CN-en

产品安全技术说明书

iT.33 laundry booster pro

第一部分 物质/制剂及公司/企业标识

1.1. 化学品标识

产品名称:

iT.33 laundry booster pro

1.2. 化学品的推荐用途和限制用途

已验明的用途:

清洁剂和清洁剂 (包括溶剂型清洁剂)
仅用于工业用途。

不推荐用途:

未知。

1.3. 安全技术说明书供应商详情

公司详细信息:

Hygieniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygieniq.com

电子邮件:

info@hygieniq.com

发行日期:

2025/8/14

SDS 版本:

2.0

上次发行日期:

2025/7/28 (1.0)

1.4. 应急电话号码

中国国内紧急联系电话: +86-10-12320 (二十四小时应急电话)

第2部分 危险性概述

基于化学品分类标准进行分类: GB 30000.2-2013~GB 30000.29-2013。

2.1. ▼ 危险性类别

Met. Corr. 1; H290, 可能腐蚀金属

Skin Corr. 1A; H314, 造成严重皮肤灼伤和眼损伤

Eye Dam. 1; H318, 造成严重眼损伤

2.2. 标签要素

象形图:



信号词:

危险

▼ 危险性说明:

可能腐蚀金属 (H290)

造成严重皮肤灼伤和眼损伤 (H314)

防范说明:

▼ 概要:

不适用。

预防:

不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾。(P260)

戴眼睛保护/防护手套/防护服。(P280)

反应:

如皮肤(或头发)沾染:立即脱掉所有沾染的衣服。用水清洗皮肤/淋浴。(P303+P361+P353)

如进入眼睛:用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出,取出隐形眼镜。继续冲洗。(P305+P351+P338)

贮存:

贮存于抗腐蚀/带抗腐蚀衬里的容器中。(P406)

废弃处置:

处置内装物/容器 当地法规 (P501)

危险成分:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

附加标示:

不适用。

第3部分 成分/组成信息

3.1. 物质

本产品是一种混合物

3.2. ▼ 混合物

产品/成份名称	标识符	%	分类	备注
potassium hydroxidecaustic potash	CAS 号: 1310-58-3 EC: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxidecaustic soda	CAS 号: 1310-73-2 EC: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %)	

			Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

参见第 16 节 H-语句全文。第 8 节列出了职业接触限值（如适用）。

其他信息

第4部分 急救措施

4.1. 急救措施说明

概要:

发生事故时：请联系医生或急诊室——带上标签或安全数据表。

如果对伤者的情况有疑问或症状持续存在，请就医。切勿给无意识的人喝水或其他饮料。

吸入:

发生呼吸困难或呼吸道刺激时：将患者转移到新鲜空气处，并进行陪伴。

皮肤接触:

用水长时间冲洗暴露部位 - 至少30分钟。必要时，可能需要冲洗数小时。使用舒适的水温（20-30 °C）。联系毒物资料中心/医生/医院，以获取后续治疗的进一步建议。

立即脱掉被污染的衣服和鞋子。确保用水和肥皂彻底清洗暴露的皮肤。可以使用皮肤清洁剂。切勿使用溶剂或稀释剂。

如发生皮肤刺激：求医/就诊。

眼睛接触:

如进入眼睛：用大量的水或盐水（20-30 °C）冲洗眼睛至少 30 分钟，并持续冲洗至刺激感消失。摘除隐形眼镜。确保上下眼睑冲洗干净。立即寻求医疗救助并继续冲洗。

摄入:

如果摄入，请立即联系医生并带上安全数据表或标签。若患者有意识，给他们水喝。除非医生建议，否则请勿进行催吐。头朝下，防止呕吐物流回口腔和喉咙。保证伤者保温、情绪平静，以防休克。若呼吸停止，请立即进行心肺复苏。如果患者无意识，应将其移至恢复体位。叫救护车。

烧伤:

不适用。

4.2. 最重要的症状和效应，包括急性的和延迟的

组织损伤效应：本品含有皮肤腐蚀性物质。吸入的蒸汽或气溶胶可能对肺部产生不良影响，刺激和灼伤呼吸道，以及引起咳嗽。皮肤接触和眼睛接触会造成不可逆的影响。

4.3. 需要任何即时的医疗关注和特殊处理

如接触到或有疑虑：

立即求医/就诊。

对医生的特别提示

携带本安全数据表。

第5部分 消防措施

5.1. 灭火介质

不适用。

5.2. 从物质或混合物产生的特殊危害

火会导致出现浓烟。接触燃烧产物可能会有害健康。暴露在火中的密闭容器应用水进行冷却。请勿让灭火用水排入进入污水系统和附近的地表水。

如果产品暴露在高温下（如发生火灾），会产生危险的分解代谢物质。包括：
某些金属氧化物。

5.3. 对消防员的建议

穿戴自给式呼吸器和防护服，防止接触。直接暴露后，联 拨打 职业卫生与中毒控制: +86-10-12320，以获取更多建议。

第6部分 泄漏应急处理

6.1. 人员防护措施、防护装备和应急处置程序

避免直接接触溢出物。
污染区域可能湿滑。

6.2. 环境保护措施

避免向湖泊、溪流、下水道等排放废水。
未经允许的人员不得进入溢溅区

6.3. 泄漏化学品的收容、清除方法及所使用的处置材料

使用不可燃的吸收材料（如沙子、泥土、蛭石或硅藻土）围堵并收集溢出物，将其置入容器中并依据当地/国家法规进行弃置处理。
尽可能使用普通清洁剂进行清洁。避免使用溶剂。

6.4. 其他部分的参照

参见第13部分的其他废物处理信息。
参见第8部分的合适的个人防护装备信息。

第7部分 操作处置与储存

7.1. 安全搬运的防范措施

避免直接接触本产品。
不得在工作室吸烟、储存烟草、食用和储存食品或液体。
参见第8部分的合适的个人防护装备信息。

7.2. 安全存储的条件，包括任何不相容性

打开的容器必须仔细重新密封并保持直立，以防泄漏。
贮存于抗腐蚀/带抗腐蚀衬里的容器中。

推荐储存材料:

只能在原容器中存放。

储存温度:

干燥、凉爽通风良好

禁配物:

强酸、强碱、强氧化剂和强还原剂。

7.3. 特定的最终用途

本产品只适用于第 1.2 节中所述的应用。

第8部分 接触控制和个体防护

8.1. 控制参数

没有 GBZ 2.1-2019 中列出的规定了职业暴露限值的物质。

8.2. 接触控制

采取常规控制措施，防止不必要的暴露。

一般建议:

不得在工作室吸烟、储存烟草、食用和储存食品或液体。

接触情况:

本品没有相应实施的接触场景。

最高容许浓度:

尚未对本产品中的物质确定职业接触限值。

工程控制:

确保洗眼器和安全喷淋装置设在方便触及的地方。

在使用该产品的过程中采取标准的预防措施。避免吸入蒸汽。

卫生措施:

在不使用产品及工作日结束时，应对身体所有暴露部位进行彻底清洗。特别注意手、前臂和脸部。

环境接触控制:

在工作场所附近放置围堵材料。如果可能，在工作期间收集溢出物。

个人防护措施

概要:

只能使用带有 CE 标识的防护设备。

呼吸系统防护:

推荐	等级	颜色	材料	
在通风良好的情况下，无需进行呼吸防护				

身体防护:

材料	推荐	标准	
专用工作服	-	-	

手部防护:

工作情况	材料	手套厚度 (mm)	穿透时间 (min.)	标准	
在长时间暴露或高浓度情况下	丁腈橡胶	0.4	> 480	EN374-2, EN16523-1, EN388	
在短时间暴露或低浓度情况下	丁腈橡胶	1,5	> 30	EN374-2, EN16523-1, EN388	

眼睛/面部防护:

推荐	标准	
带侧罩的安全眼镜	EN166	

第9部分 理化特性

9.1. 基础理化特性信息

物理状态:

液体

颜色:

浅黄色

▼ 气味:

温和

气味阈值 (ppm) :

无可用的数据。

pH值:

13.5

相对密度 (g/cm³):

1.29 (20 °C)

运动粘度:

无可用的数据。

颗粒特性:

不适用于液体

物相变化

熔点/凝固点 (°C):

无可用的数据。

软化点/范围 (°C):

不适用于液体

沸点/沸程 (°C):

100

蒸气压:

无可用的数据。

蒸气密度:

无可用的数据。

分解温度 (°C):

无可用的数据。

蒸发速率:

火灾和爆炸危险数据

闪点 (°C):

无可用的数据。

着火温度 (°C):

无可用的数据。

自燃温度 (°C):

无可用的数据。

爆炸 (燃烧) 上限和下限:

无可用的数据。

可溶性

水溶性:

完全溶解

n-辛醇/水分配系数 (LogKow):

无可用的数据。

脂溶性 (克/升) :

无可用数据。

9.2. 其他信息

其它物理和化学参数:

无可用数据。

氧化性:

无可用数据。

第10部分 稳定性和反应性

10.1. 活动性

无可用数据。

10.2. 稳定性

基于“7 操作处置与储存”一节的内容，本产品在常规条件下处于稳定状态。

10.3. 危险反应

未知。

10.4. 应避免的条件

未知。

10.5. 禁配物

强酸、强碱、强氧化剂和强还原剂。

10.6. 危险的分解产物

热分解可能产生腐蚀性蒸气。

第11部分 毒理学信息

11.1. 毒理效应信息

急性毒性

产品/成份名称	potassium hydroxidecaustic potash
种类:	大鼠, 雄
接触途径:	口服
测试:	LD50
结果:	333 - 388 mg/kg

产品/成份名称	sodium hydroxidecaustic soda
结果:	45.4 mg/L

产品/成份名称	sodium hydroxidecaustic soda
种类:	兔子
测试:	LD lo
结果:	500 mg/kg

基于可用数据，其不满足分类标准。

刺激或腐蚀

产品/成份名称	iT.33 laundry booster pro
结果:	有观察到的不良作用 (高度刺激性)

产品/成份名称	potassium hydroxidecaustic potash
结果:	有观察到的不良作用 (有腐蚀性)

产品/成份名称 sodium hydroxidecaustic soda
结果: 有观察到的不良作用 (有刺激性)

造成严重皮肤灼伤和眼损伤

严重眼睛损伤/刺激

产品/成份名称 iT.33 laundry booster pro
结果: 有观察到的不良作用 (造成严重眼损伤)

产品/成份名称 potassium hydroxidecaustic potash
结果: 有观察到的不良作用 (强腐蚀性)

产品/成份名称 sodium hydroxidecaustic soda
测试方法: OECD 405
种类: 兔子
结果: 有观察到的不良作用 (有腐蚀性)

造成严重眼损伤

呼吸道致敏性

产品/成份名称 potassium hydroxidecaustic potash
结果: 无观察到的不良作用 (不敏感)

基于可用数据, 其不满足分类标准。

皮肤致敏性

基于可用数据, 其不满足分类标准。

生殖细胞致突变性

基于可用数据, 其不满足分类标准。

致癌性

基于可用数据, 其不满足分类标准。

生殖毒性

基于可用数据, 其不满足分类标准。

特异性靶器官系统毒性-一次接触

基于可用数据, 其不满足分类标准。

特异性靶器官系统毒性-反复接触

基于可用数据, 其不满足分类标准。

吸入危害

基于可用数据, 其不满足分类标准。

潜在的慢性健康影响

组织损伤效应: 本品含有皮肤腐蚀性物质。吸入的蒸汽或气溶胶可能对肺部产生不良影响, 刺激和灼伤呼吸道, 以及引起咳嗽。皮肤接触和眼睛接触会造成不可逆的影响。

其他信息

未知。

第12部分 生态学信息

12.1. 毒性

产品/成份名称 iT.33 laundry booster pro
种类: Andere waterorganismen, Leuciscus idus
环境: 水
暴露: 96 小时
测试: LC50

结果: >100 mg/L

产品/成份名称: sodium hydroxidecaustic soda
种类: 菌, Pseudomonas putida
测试: EC0
结果: >100 mg/L

产品/成份名称: sodium hydroxidecaustic soda
种类: 水蚤, Ceriodaphnia dubia
暴露: 48 小时
结果: 40.4 mg/L

产品/成份名称: sodium hydroxidecaustic soda
测试方法: OECD 203
种类: 鱼类, Oncorhynchus mykiss
暴露: 96 小时
测试: LC50
结果: 45.4 mg/L

基于可用数据，其不满足分类标准。

12.2. 持久性和降解性

基于可用数据，其不满足分类标准。

12.3. 潜在的生物累积性

产品/成份名称: sodium hydroxidecaustic soda
结论: 预计不会发生生物累积

12.4. 土壤中的迁移性

无可用数据。

12.5. PBT和vPvB评估结果

本混合物/产品不含任何被认定符合分类为 PBT 及/或 vPvB 的标准的物质。

12.6. 其他环境有害作用

未知。

第13部分 废弃处置

废物处理方法

处置内装物/容器 至获批准的废物处理厂

特定标示

包装

针对含有产品残留物的包装，必须采用与产品处理方法相似的方式进行处理。

第14部分 运输信息

	14.1 UN号	14.2 正确运输名称	14.3 类别	14.4 PG*	14.5 Env**	其他信息:
ADR	UN1719	苛性碱液体 未另作规定的 (potassium hydroxidecaustic potash, sodium hydroxidecaustic soda)	类别: 8 标志: 8 分类 代码: C5	II	否	有限 数量: 1 L 隧道限制代码: (E)

	14.1 UN号	14.2 正确运输名称	14.3 类别	14.4 PG*	14.5 Env**	其他信息:
						更多信息请参见下文。
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	类别: 8 标志: 8 分类 代码: C5 	II	否	有限 数量: 1 L EmS: F-A S-B 更多信息请参见下文。
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	类别: 8 标志: 8 分类 代码: C5 	II	否	更多信息请参见下文。

* 包装类别

** 环境危害

其他信息

本产品危险货物运输规定的范围内。

ADR / 参见表 A 第 3.2.1 小节，了解与运输有关的特殊规定、要求或警告的信息。参见第 5.4.3 小节，关于运输过程中发生事故或意外时减轻损失的书面指示。

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. 运输注意事项

不适用。

14.7. 基于MARPOL的附录II和IBC准则按散装运输

无可用数据。

第15部分 法规信息

15.1. 安全、健康和环境法规/物质或混合物特定的立法

应用限制:

仅用于工业用途。

未满 18 岁的人员不得接触本产品。

特殊教育需求:

无特殊要求。

其他信息:

不适用。

中国现有化学物质名录:

potassium hydroxidecaustic potash 被列出

sodium hydroxidecaustic soda 被列出

中国法律/法规:

危险化学品安全管理条例 (第591号)

GB 30000.1-2024 化学品分类和标签规范 第1部分：通则

GB13690-2009化学品分类和危险性公示通则
危险化学品目录 (2015版)
GB15258-2009化学品安全标签编写规定
GB/T 16483-2008化学品安全技术说明书内容和项目顺序
GB/T 17519-2013化学品安全技术说明书编写指南

15.2. 15.2.化学安全评估

否

第16部分 其他信息

H 语句全文：见第 3 节

H290, 可能腐蚀金属
H302, 吞咽有害
H314, 造成严重皮肤灼伤和眼损伤
H315, 造成皮肤刺激
H318, 造成严重眼损伤
H319, 造成严重眼刺激

已验明用途的全文见第 1 节

未知。

缩略语和首字母缩写

ACGIH = 美国政府工业卫生专家协会，颁发有毒产品暴露标准的机构。
BCF = 生物富集系数
CAS = 化学提取物服务注册号码
CE = 符合欧洲标准
DNEL = 衍生无效应水平
EC_x = 产生 x % 反应的浓度
EC₅₀ = 引起 50 % 最大反应的物质有效浓度
GHS = 全球协调制度
IARC = 国际癌症研究机构
IATA = 国际航空协会，颁发货物空运相关规定的组织。
IMDG = 国际海事组织规则，货物海运规则。
ICAO = 国际民航组织。
K_{ow} = 正辛醇/ 水分配系
LC₅₀ = 半数致死浓度
LD₅₀ = 急性经毒性 (半数致死剂量)
NOEC = 无观察效应浓度
OECD = 经济合作与发展组织
PBT = 持久性生物累积性有毒物质
PC-STEEL = 短时间接触容许浓度
PC-TWA = 时间加权平均容许浓度
PNEC = 预计无效应浓度
REACH = 欧盟关于化学品注册、评估、授权和限制法规。
SCL = 具有特定浓度限制
SDS = 安全技术说明书
STEL = 短期暴露限制
PC-TWA = 时间加权平均数
UN Number = 联合国编号，联合国危险货物运输专家委员会指定的四位数码。
UVCB = 成分未知或可变的物质，复杂反应产物或生物材料
vPvB = 高残留性、高生物浓缩性物质

其他信息

混合物对健康危害按照化学分类标准给出的计算方法进行分类：GB 30000.2-2013 至 GB 30000.29-2013

安全数据表由以下人员验证

Quality & Compliance

其他

更改（与最后一次基本更改（SDS 版本中的第一个密码，见第 1 节）成比例）用蓝色三角形标记。

本安全数据表中的信息仅适用于本特定产品（第 1 节所述），不一定适用于其他化学品/产品。

建议将此安全数据表移交给产品的实际用户。本安全数据表中的信息不能用作产品说明书。

国家-语言: CN-zh

BEZPEČNOSTNÍ LIST

iT.33 laundry booster pro

ODDÍL 1: IDENTIFIKACE LÁTKY/SMĚSI A SPOLEČNOSTI/PODNIKU

1.1. Identifikátor výrobku

Obchodní název:

iT.33 laundry booster pro

Jednoznačný identifikační kód vzorce (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Příslušná určená použití látky nebo směsi a nedoporučená použití

Relevantní identifikované využití látky nebo směsi:

Detergenty a detergenty (včetně na bázi rozpouštědel)

Pouze pro profesionální uživatele.

Nedoporučená použití:

Není známo.

1.3. Podrobné údaje o dodavateli bezpečnostního listu

Firma a adresa:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revize:

14.08.2025

Verze BL:

2.0

Datum předchozího vydání:

28.07.2025 (1.0)

1.4. Telefonní číslo pro naléhavé situace

Toxikologické informační středisko. Telefon: +420 224 919 293, +420 224 915 402 (www.tis-cz.cz)

Viz oddíl 4 "Pokyny pro první pomoc"

ODDÍL 2: IDENTIFIKACE NEBEZPEČNOSTI

Klasifikováno podle nařízení (ES) č. 1272/2008 (CLP).

2.1. Klasifikace látky nebo směsi

Met. Corr. 1; H290, Může být korozivní pro kovy.
Skin Corr. 1A; H314, Způsobuje těžké poleptání kůže a poškození očí.
Eye Dam. 1; H318, Způsobuje vážné poškození očí.

2.2. Prvky označení

Piktogram(y) rizik(a):



Signální slova:

Nebezpečí

Prohlášení rizik(a):

Může být korozivní pro kovy. (H290)

Způsobuje těžké poleptání kůže a poškození očí. (H314)

Bezpečnostní věta (věty):

▼ Obecně:

Netýká se.

Prevence:

Nevdechujte páry/mlha. (P260)

Používejte ochranné brýle/ochranné rukavice/ochranný oděv. (P280)

▼ Reakce:

PŘI STYKU S KŮŽÍ (nebo s vlasy): Veškeré kontaminované části oděvu okamžitě svlékněte. Opláchněte kůži vodou nebo osprchujte. (P303+P361+P353)

PŘI ZASAŽENÍ OČÍ: Několik minut opatrně vyplachujte vodou. Vyjměte kontaktní čočky, jsou-li nasazeny a pokud je lze vyjmout snadno. Pokračujte ve vyplachování. (P305+P351+P338)

Okamžitě volejte TOXIKOLOGICKÉ INFORMAČNÍ STŘEDISKO/lékaře. (P310)

Skladování:

Skladujte v obalu s odolnou vnitřní vrstvou. (P406)

Likvidace:

Odstraňte obsah/obal podle místních předpisů (P501)

Identifikace látek primárně odpovědných za hlavní zdravotní rizika:

hydroxid draselný

hydroxid sodný;hydroxid sodný

Další označení:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Další nebezpečnost

Další varování:

Tato směs/výrobek neobsahuje žádné látky považované za splňující kritéria klasifikace jakožto PBT či vPvB.

Tento produkt neobsahuje žádné látky, které jsou podle kritérií, stanovených nařízením Komise v přenesené pravomoci (EU) 2017/2100 nebo nařízením Komise (EU) 2023/707, považovány za endokrinní disruptory.

ODDÍL 3: SLOŽENÍ/INFORMACE O SLOŽKÁCH

3.1. Látky

Netýká se. Tento produkt je směs.

3.2. ▼ Směsi

Název složky	Identifikátory	% w/w	Klasifikace	Název složky
hydroxid draselný	Č. CAS: 1310-58-3 Č. ES: 215-181-3 REACH: Indexová č.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hydroxid sodný;hydroxid sodný	Č. CAS: 1310-73-2 Č. ES: 215-185-5 REACH: 01-2119457892-27-XXXX Indexová č.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Viz plný text H-vět v oddíl 16. Limity profesní expozice uvádí oddíl 8. Pokud jsou dostupné.

Další informace

-

ODDÍL 4: POKYNY PRO PRVNÍ POMOC

4.1. Popis první pomoci

Obsah informací:

V případě nehody: kontaktujte lékaře nebo úrazové oddělení - předejte SDS nebo štítek z obalu produktu. Pokud si nejste jisti stavem postiženého nebo pokud symptomy přetrvávají, kontaktujte lékaře. Nepodávejte vodu apod. osobě v bezvědomí.

Vdechnutí:

Při dýchacích obtížích nebo podráždění dýchacího traktu: Dopravte postiženého na čerstvý vzduch a zůstaňte s ním.

Zasažení pokožky:

Exponovanou oblast oplachujte po delší dobu vodou - alespoň 30 minut. Může být zapotřebí oplachovat i několik hodin. Použijte příjemně teplou vodu (20-30 °C). Potřebujete-li další rady ohledně sledování a léčby, obraťte se na informace o otravách/lékaře/nemocnici. Okamžitě sejměte potřísněný oděv a obuv. Zasaženou pokožku důkladně omyjte vodou a mýdlem. Lze použít čistící prostředek na pokožku. NEPOUŽÍVEJTE ředidla a rozpouštědla. Při podráždění kůže: Vyhledejte lékařskou pomoc/ošetření.

Zasažení očí:

Při zasažení očí: Oči nejméně 30 minut proplachujte vodou (20-30 °C) a pokračujte, dokud podráždění nezmizí. Vyjměte kontaktní čočky. Ujistěte se, že vyplachujete pod dolním i horním víčkem. Okamžitě volejte lékaře. Okamžitě vyhledejte pomoc lékaře a během transportu dále provádějte výplach.

Požítí:

V případě požití okamžitě volejte lékaře. Pokud je postižený při vědomí, poskytněte mu vodu. NEVYVOLÁVEJTE zvracení pokud to nedoporučí lékař. Držte hlavu dole, aby se zvratky nedostaly zpět do úst a hrdla. Předejděte šoku zajištěním klidu a tepla. Pokud postižený přestane dýchat, poskytněte umělé dýchání. Osobu v bezvědomí uložte do stabilizované polohy na boku. Přivolejte záchrannou službu.

Popálení:

Netýká se.

4.2. Nejdůležitější akutní a opožděné symptomy a účinky

Poškození tkáně: tento produkt obsahuje látky, které jsou žíravé. V případě vdechnutí par nebo aerosolů hrozí poškození plic, podráždění a poleptání dýchacích cest a kašel. Žíravé látky způsobují nevratné poškození očí a poleptání pokožky.

4.3. Pokyn týkající se okamžité lékařské pomoci a zvláštního ošetření

Při expozici nebo podezření na ni:

Okamžitě vyhledejte lékařskou pomoc/ošetření.

Informace pro lékařský personál

Předějte tento SDS nebo štítek z obalu produktu.

ODDÍL 5: OPATŘENÍ PRO HAŠENÍ POŽÁRU

5.1. Hasiva

Netýká se.

5.2. Zvláštní nebezpečnost vyplývající z látky nebo směsi

V případě požáru vzniká hustý dým. Vdechnutí produktů rozkladu nebo kontakt s nimi může poškodit zdraví. Uzavřené obaly vystavené požáru chlaďte vodou. Zabraňte vniknutí vody z hašení do kanalizace, vodních toků/ploch. Pokud je produkt vystaven vysoké teplotě, například při požáru, vznikají nebezpečné produkty rozkladu: oxidy jistých kovů

5.3. Pokyny pro hasiče

Zabraňte kontaktu, používejte dýchací přístroj s vlastním zdrojem vzduchu a ochranný oděv.

ODDÍL 6: OPATŘENÍ V PŘÍPADĚ NÁHODNÉHO ÚNIKU

6.1. Opatření na ochranu osob, ochranné prostředky a nouzové postupy

Vyhnete se přímému kontaktu s uniklou látkou.

Zajistěte dostatečné větrání, zejména v klimatizovaných prostorách.

Kontaminovaná místa mohou klouzat.

6.2. Opatření na ochranu životního prostředí

Zabraňte únikům do vodních ploch/toků, kanalizace atd.

Dbejte na to, aby k rozlité kapalině neměly přístup nepovolané osoby.

6.3. Metody a materiál pro omezení úniku a pro čištění

Uniklý materiál zachyťte a posbírejte pomocí nehořlavého absorpčního materiálu, například písku, zeminy, vermikulitu nebo křemeliny, a umístěte jej do nádoby k likvidaci, v souladu s místními předpisy.

K čištění využijte v maximální míře běžné čisticí prostředky. Vyhnete se použití rozpouštědel.

6.4. Odkaz na jiné oddíly

Viz oddíl 13 "Pokyny pro odstraňování" o nakládání s odpadem.

Ochranná opatření viz oddíl 8 "Omezování expozice/osobní ochranné prostředky".

ODDÍL 7: ZACHÁZENÍ A SKLADOVÁNÍ

7.1. Opatření pro bezpečné zacházení

Vyhnete se přímému kontaktu s produktem.

Na pracovišti je zakázáno kouření, jídlo a pití včetně skladování tabáku, potravin a nápojů.

Informace o ochraně osob viz "Omezování expozice/osobní ochranné prostředky".

7.2. Podmínky pro bezpečné skladování látek a směsí včetně neslučitelných látek a směsí

Otevřené obaly je nutno dokonale uzavřít a skladovat nastojato, aby nedošlo k úniku.

Skladujte v obalu s odolnou vnitřní vrstvou.

Slučitelnosti obalů:

Uchovávejte pouze v původním balení.

Podmínky skladování:

Suché, chladné, dobře větrané

Neslučitelné materiály:

Silné kyseliny, silné zásady, silná oxidační činidla a silná rozkladná činidla.

7.3. Specifické konečné/specifická konečná použití

Tento produkt smí být použit pouze k účelům uvedeným v oddíl 1.2.

ODDÍL 8: OMEZOVÁNÍ EXPOZICE/OSOBNÍ OCHRANNÉ PROSTŘEDKY

8.1. Kontrolní parametry

hydroxid draselný

Nejvyšší přípustná koncentrace (15 minut) (NPK-P) (mg/m³): 2

Přípustný expoziční limit (8 hodin) (PEL) (mg/m³): 1

Poznámky:

I = dráždí sliznice (oči, dýchací cesty) resp. kůže.

hydroxid sodný;hydroxid sodný

Nejvyšší přípustná koncentrace (15 minut) (NPK-P) (mg/m³): 2

Přípustný expoziční limit (8 hodin) (PEL) (mg/m³): 1

Poznámky:

I = dráždí sliznice (oči, dýchací cesty) resp. kůže.

Nařízení vlády, ze dne 3. října 2018, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů.

DNEL

hydroxid draselný

Délka:	Trasa podání:	DNEL:
Dlouhodobé - lokální účinky - obecná populace	Vdechnutí	1 mg/m ³
Dlouhodobé - lokální účinky - Pracovník	Vdechnutí	1 mg/m ³

hydroxid sodný;hydroxid sodný

Délka:	Trasa podání:	DNEL:
Dlouhodobé - systémové účinky - obecná populace	Kožní	2 %
Dlouhodobé - systémové účinky - Pracovník	Kožní	<2 %
Dlouhodobé - lokální účinky - obecná populace	Vdechnutí	1 mg/m ³
Dlouhodobé - lokální účinky - Pracovník	Vdechnutí	1 mg/m ³

PNEC

hydroxid sodný;hydroxid sodný

Trasa podání:	Doba expozice:	PNEC:
Čistírný odpadních vod		51 mg/L
Mořské vody		0.64 mg/L
Občasné vydání		3.1 mg/L
Občasné vydání (tořskou vodu)		2.3 mg/kg TG

Půda		0.853 mg/kg TG
Sladké vody		6.4 mg/L
Sladkovodní sedimenty		23 mg/kg TG

8.2. Omezování expozice

Je nutno pravidelně kontrolovat dodržování předepsaných limitů expozice.

Obecná doporučení:

Na pracovišti je zakázáno kouření, jídlo a pití včetně skladování tabáku, potravin a nápojů.

Scénáře expozice:

Pro tento produkt nejsou zavedeny žádné scénáře expozice

Limity expozice:

Profesionálních uživatelů se týkají limity BOZP stanovující maximální koncentrace na pracovišti. Viz výše uvedené prahové hodnoty BOZP.

Vhodná technická opatření:

Je třeba udržovat vytváření páry na minimu a pod současnými limitními hodnotami (viz výše). Pokud na pracovišti není dostatečné proudění vzduchu, doporučuje se nainstalovat místní systém odsávání. Zajistěte, aby byly jasné označeny stanice pro výplach očí a nouzové sprchy.

Dbejte na to, aby byly v blízkosti umístěny stanice pro výplach očí a bezpečnostní sprchy.

Při používání produktu aplikujte standardní preventivní opatření. Dbejte na to, aby nedošlo k inhalaci výparů.

Hygienická opatření:

Při každé pauze v používání produktu a po skončení práce s produktem si omyjte všechny exponované části těla. Věnujte zvláštní pozornost rukám, předloktí a obličeji.

Opatření k zabránění ohrožení prostředí:

Poblíž pracoviště mějte připravené materiály k přehrazení. Úniky během práce pokud možno likvidujte.

Osobní ochranná opatření, například osobní ochranné pomůcky

Obecně:

Používejte pouze ochranné pomůcky s označením CE.

Ochrana dýchacích cest:

Typ	Třída	Barva	Normy	
Ochrana dýchacích orgánů není nutná v případě dostatečného větrání				

Ochrana pokožky:

Doporučený	Typ/Kategorie	Normy	
Používejte speciální pracovní oděv	-	-	

Ochrana rukou:

Pracovní situace	Materiál	Minimální tloušťka vrstvy (mm)	Doba průniku (min.)	Normy	
V případě dlouhodobé expozice nebo vysokých koncentrací	Nitrilová pryž	0.4	> 480	EN374-2, EN16523-1, EN388	

Pracovní situace	Materiál	Minimální tloušťka vrstvy (mm)	Doba průniku (min.)	Normy	
V případě krátkodobé expozice nebo nízkých koncentrací	Nitrilová pryž	1,5	> 30	EN374-2, EN16523-1, EN388	

Ochrana očí:

Typ	Normy	
Noste bezpečnostní brýle s bočními kryty.	EN166	

ODDÍL 9: FYZIKÁLNÍ A CHEMICKÉ VLASTNOSTI

9.1. Informace o základních fyzikálních a chemických vlastnostech

Skupenství:

Kapalina

Barva:

Bledě žlutý

▼ Zápach / Prahová hodnota zápachu (ppm):

Mírný

pH:

13.5

Hustota (g/cm³):

1,29 (20 °C)

Kinematická viskozita:

Data nejsou k dispozici.

Charakteristiky částic:

Nevztahuje se na kapaliny.

Změny skupenství

Bod tání/bod tuhnutí (°C):

Data nejsou k dispozici.

Bod/rozsah bodu měknutí (°C):

Nevztahuje se na kapaliny.

Bod varu (°C):

100

Tlak par:

Data nejsou k dispozici.

Relativní hustota páry:

Data nejsou k dispozici.

Teplota rozkladu (°C):

Data nejsou k dispozici.

Informace o riziku požáru a výbuchu

Bod vznícení (°C):

Data nejsou k dispozici.

Hořlavost (°C):

Data nejsou k dispozici.

Teplota samovznícení (°C):

Data nejsou k dispozici.

Limity expozice (% v/v):

Data nejsou k dispozici.

Rozpustnost

Rozpustnost ve vodě:

Zcela rozpustné

Koeficient n-oktanol/voda (LogKow):

Data nejsou k dispozici.

Rozpustnost v tuku (g/L):

Data nejsou k dispozici.

9.2. Další informace

Další fyzikální a chemické parametry:

Data nejsou k dispozici.

Oxidační vlastnosti:

Data nejsou k dispozici.

ODDÍL 10: STÁLOST A REAKTIVITA

10.1. Reaktivita

Data nejsou k dispozici.

10.2. Chemická stabilita

Produkt je stabilní za podmínek uvedených v oddíl 7 "Zacházení a skladování".

10.3. Možnost nebezpečných reakcí

Není známo.

10.4. Podmínky, kterým je třeba zabránit

Není známo.

10.5. Neslučitelné materiály

Silné kyseliny, silné zásady, silná oxidační činidla a silná rozkladná činidla.

10.6. Nebezpečné produkty rozkladu

Při tepelné dekompozici mohou vzniknout korozivní výpary.

ODDÍL 11: TOXIKOLOGICKÉ INFORMACE

11.1. Informace o třídách nebezpečnosti vymezených v nařízení (ES) č. 1272/2008

Akutní toxicita

Název složky	hydroxid draselný
Druh:	Krysa, samice
Trasa podání:	Orální
Test:	LD50
Výsledek:	333 - 388 mg/kg

Název složky	hydroxid sodný;hydroxid sodný

Výsledek: 45.4 mg/L

Název složky hydroxid sodný;hydroxid sodný
Druh: Králík
Test: LD lo
Výsledek: 500 mg/kg

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Žíravost/ dráždivost pro kůži

Název složky iT.33 laundry booster pro
Výsledek: Pozorovány nepříznivé účinky (Výrazně dráždivé)

Název složky hydroxid draselný
Výsledek: Pozorovány nepříznivé účinky (Žíravé)

Název složky hydroxid sodný;hydroxid sodný
Výsledek: Pozorovány nepříznivé účinky (Dráždivé)

Způsobuje těžké poleptání kůže a poškození očí.

Vážné poškození očí / podráždění očí

Název složky iT.33 laundry booster pro
Výsledek: Pozorovány nepříznivé účinky (Způsobuje vážné poškození očí)

Název složky hydroxid draselný
Výsledek: Pozorovány nepříznivé účinky (Výrazně žíravé)

Název složky hydroxid sodný;hydroxid sodný
Zkušební metoda: OECD 405
Druh: Králík
Výsledek: Pozorovány nepříznivé účinky (Žíravé)

Způsobuje vážné poškození očí.

Senzibilizace dýchacích cest

Název složky hydroxid draselný
Výsledek: Nepozorovány žádné nepříznivé účinky (není senzibilizující)

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Senzibilizace kůže

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Mutagenita v zárodečných buňkách

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Karcinogenita

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Toxicita pro reprodukci

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Toxicita pro specifické cílové orgány – jednorázová expozice

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Toxicita pro specifické cílové orgány – opakovaná expozice

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

Nebezpečnost při vdechnutí

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

11.2. Informace o další nebezpečnosti

Dlouhodobé účinky

Poškozování tkáně: tento produkt obsahuje látky, které jsou žíravé. V případě vdechnutí par nebo aerosolů hrozí poškození plic, podráždění a poleptání dýchacích cest a kašel. Žíravé látky způsobují nevratné poškození očí a poleptání pokožky.

Vlastnosti vyvolávající narušení činnosti endokrinního systému

Tato směs/tento výrobek neobsahuje žádné látky, které jsou považovány za látky narušující hormonální funkce s ohledem na zdraví.

Další informace

Není známo.

ODDÍL 12: EKOLOGICKÉ INFORMACE

12.1. Toxicita

Název složky	iT.33 laundry booster pro
Druh:	Andere waterorganismen, Leuciscus idus
Složka životního prostředí:	Voda
Délka:	96 hodin
Test:	LC50
Výsledek:	>100 mg/L

Název složky	hydroxid sodný;hydroxid sodný
Druh:	Bakterie, Pseudomonas putida
Test:	EC0
Výsledek:	>100 mg/L

Název složky	hydroxid sodný;hydroxid sodný
Druh:	Daphnia, Ceriodaphnia dubia
Délka:	48 hodin
Výsledek:	40.4 mg/L

Název složky	hydroxid sodný;hydroxid sodný
Zkušební metoda:	OECD 203
Druh:	Ryba, Oncorhynchus mykiss
Délka:	96 hodin
Test:	LC50
Výsledek:	45.4 mg/L

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

12.2. Perzistence a rozložitelnost

Na základě dostupných údajů nejsou kritéria pro klasifikaci splněna.

12.3. Bioakumulační potenciál

Název složky	hydroxid sodný;hydroxid sodný
Závěr:	Bioakumulace se nepředpokládá

12.4. Mobilita v půdě

Data nejsou k dispozici.

12.5. Výsledky posouzení PBT a vPvB

Tato směs/výrobek neobsahuje žádné látky považované za splňující kritéria klasifikace jakožto PBT či vPvB.

12.6. Vlastnosti vyvolávající narušení činnosti endokrinního systému

Tato směs/tento výrobek neobsahuje žádné látky, které jsou považovány za látky narušující endokrinní systém ve vztahu k životnímu prostředí.

12.7. Jiné nepříznivé účinky

Není známo.

ODDÍL 13: POKYNY PRO ODSTRAŇOVÁNÍ

13.1. Metody nakládání s odpady

Tento produkt podléhá předpisům o nebezpečném odpadu. (*)

HP 8 - Žíravé

Odstraňte obsah/obal k schválenému odpadišti.

Nařízení Komise (EU) č. 1357/2014 ze dne 18. prosince 2014 o odpadech.

Kód EWC:

20 01 29*

Detergenty obsahující nebezpečné látky

Kontaminovaný obal

Obaly se zbytky produktu je nutno likvidovat stejným způsobem jako produkt.

ODDÍL 14: INFORMACE PRO PŘEPRUVU

	14.1 UN	14.2 Oficiální (OSN) pojmenování pro přepravu	14.3 Třída/třídy nebezpečnosti pro přepravu	14.4 PG*	14.5 Env **	Další informace:
ADR	UN1719	LÁTKA ŽÍRAVÁ, ALKALICKÁ, KAPALNÁ, J.N. (hydroxid draselný, hydroxid sodný;hydroxid sodný)	Třída: 8 Bezpečnostní značky: 8 Klasifikační kód: C5 	II	Ne	Omezené množství: 1 L Kód omezení pro tunely: (E) Další informace viz níže.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Třída: 8 Bezpečnostní značky: 8 Klasifikační kód: C5 	II	Ne	Omezené množství: 1 L EmS: F-A S-B Další informace viz níže.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Třída: 8 Bezpečnostní značky: 8 Klasifikační kód: C5 	II	Ne	Další informace viz níže.

* Obalová skupina

** Nebezpečnost pro životní prostředí

Další informace

Tento produkt podléhá dohodám o nebezpečném zboží.

ADR / Viz Tabulka A, oddíl 3.2.1, kde naleznete veškeré informace týkající se zvláštních ustanovení, požadavků nebo výstrah, spojených s přepravou. Viz oddíl 5.4.3, kde naleznete písemné pokyny týkající se zmírnění škod v souvislosti s

mimořádnými událostmi nebo nehodami během přepravy.

IMDG / Viz oddíl 3.2.1, kde naleznete veškeré informace týkající se zvláštních ustanovení, požadavků nebo výstrah, spojených s přepravou.

IATA / Viz Tabulka 4.2, kde naleznete veškeré informace týkající se zvláštních ustanovení, požadavků nebo výstrah, spojených s přepravou.

14.6. Zvláštní bezpečnostní opatření pro uživatele

Netýká se.

14.7. Námořní hromadná přeprava podle nástrojů IMO

Data nejsou k dispozici.

ODDÍL 15: INFORMACE O PŘEDPISECH

15.1. Předpisy týkající se bezpečnosti, zdraví a životního prostředí/specifické právní předpisy týkající se látky nebo směsi

Omezení aplikace:

Pouze pro profesionální uživatele.

Osoby do 18 let věku nesmí být vystaveny působení tohoto produktu.

Požadavek specifického vzdělání:

Žádné zvláštní požadavky.

SEVESO - Kategorie nebezpečnosti / Nebezpečné látky jmenovitě uvedené:

Netýká se.

Další informace:

Netýká se.

Zdroje:

Pracovní parvo vyhláška o zakázaných pracích a pracovištích č. 180/2015 Sb.

Nařízení Evropského parlamentu a Rady (ES) č. 648/2004 ze dne 31. března 2004 o detergentech.

Nařízení Komise (EU) č. 1357/2014 ze dne 18. prosince 2014 o odpadech.

Nařízení Evropského parlamentu a Rady (ES) č. 1272/2008 ze dne 16. prosince 2008 o klasifikaci, označování a balení látek a směsí (CLP).

Nařízení Evropského parlamentu a Rady (ES) č. 1907/2006 ze dne 18. prosince 2006 o registraci, hodnocení, povolování a omezování chemických látek (REACH).

15.2. Posouzení chemické bezpečnosti

Ne

ODDÍL 16: DALŠÍ INFORMACE

Plný text H-vět dle oddílu 3

H290, Může být korozivní pro kovy.

H302, Zdraví škodlivý při požití.

H314, Způsobuje těžké poleptání kůže a poškození očí.

H315, Dráždí kůži.

H318, Způsobuje vážné poškození očí.

H319, Způsobuje vážné podráždění očí.

Zkratky

ADN = Mezinárodní předpisy pro přepravu nebezpečných věcí na vnitrozemských vodních cestách

ADR = Evropská dohoda týkající se silniční přepravy nebezpečných věcí

ATE = odhad akutní toxicity

BCF = biokoncentrační faktor

CAS = CAS registr

CE = Evropská shoda

CLP = Nařízení o klasifikaci, označování a balení látek a směsí [nařízení (ES) 1272/2008]

CSA = posouzení chemické bezpečnosti

CSR = zpráva o chemické bezpečnosti

DMEL = odvozená minimální úroveň, při které dochází k nepříznivým účinkům

DNEL = odvozená úroveň, při které nedochází k nepříznivým účinkům

EINECS = Evropský seznam existujících obchodovaných chemických látek

ES = scénář expozice

EuPCS = Evropský systém kategorizace výrobků

EWC = Evropský katalog odpadů

GHS = Globálně harmonizovaný systém klasifikace a označování chemických látek a směsí

GWP = Potenciálem globálního oteplování

H nařízení Evropské unie = CLP - specifické nařízení nebezpečnosti

IATA = Asociace pro mezinárodní leteckou dopravu

IBC = IBC kontejner

IMDG = námořní přeprava nebezpečných věcí dle IMDG

LogPow = logaritmus rozdělovacího koeficientu oktanol/voda

MARPOL = Mezinárodní úmluva o zabránění znečištění z lodí z roku 1973 ve znění protokolu z roku 1978. ("MARPOL" = znečištění moří)

OECD = Organizace pro ekonomickou spolupráci a rozvoj

PBT = perzistentní, bioakumulativní a toxická/é

PNEC = odhad koncentrace, při níž nedochází k nepříznivým účinkům

RID = Nařízení o mezinárodní přepravě nebezpečného zboží po železnici

RRN = Registrační číslo REACH

SCL = určitý limit koncentrace.

STOT-RE = specifický cílový orgán toxicity - opakovaná expozice

STOT-SE = specifický cílový orgán toxicity - jednorázová expozice

SVHC = látky vyvolávající velmi velké obavy

TWA = Vážený průměr v čase

UN = Organizace spojených národů (OSN)

UVCB = Jsou látky s neznámým nebo proměnlivým složením, komplexní reakční produkty nebo biologické materiály.

VOC = těkavé organické látky

vPvB = vysoce perzistentní a vysoce bioakumulativní

Další informace

Klasifikace směsi s ohledem na rizika pro zdraví jsou v souvislosti s výpočtovými metodami nařízení (EC) č. 1272/2008 (CLP).

BL ověřil

Quality & Compliance

Ostatní

Změna oproti poslední velké revizi (první číslice verze SDS) je označena trojúhelníkem.

Informace v tomto SDS se týkají pouze tohoto konkrétního produktu (zmíněnému v oddíl 1) a nemusí být přesné, pokud jde o jiné chemikálie/produkty.

Doporučujeme předat tento SDS skutečnému uživateli produktu. Informace v tomto SDS neslouží jako specifikace produktu.

Země-jazyk: CZ-cs

SICHERHEITSDATENBLATT

iT.33 laundry booster pro

ABSCHNITT 1: BEZEICHNUNG DES STOFFS BEZIEHUNGSWEISE DES GEMISCHS UND DES UNTERNEHMENS

1.1. Produktidentifikator

Handelsname:

iT.33 laundry booster pro

Eindeutiger Rezepturidentifikator (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird

Relevante identifizierte Verwendungen des Stoffs oder Gemischs:

Wasch- und Reinigungsmittel (einschließlich Produkte auf Lösungsmittelbasis)
Nur für gewerbliche Anwender.

Verwendungen, von denen abgeraten wird:

Keine bekannt.

1.3. Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt

Firmenname und Adresse:

Hygeniq B.V.

Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Email:

info@hygeniq.com

Überarbeitet am:

14.08.2025

SDB Version:

2.0

Datum der letzten Ausgabe:

28.07.2025 (1.0)

1.4. Notrufnummer

Notfall: Rufen Sie 112 an, fordern Sie die Informationen zur Giftnotrufzentrale an. 24 Stunden am Tag geöffnet.
Giftnotrufzentrale Berlin, Notfallrufnummer: +49 30 19240 (Tag und Nacht)
Siehe auch Abschnitt 4 zu Erste-Hilfe-Maßnahmen

ABSCHNITT 2: MÖGLICHE GEFAHREN

Eingestuft gemäß der Verordnung (EG) Nr. 1272/2008 (CLP).

2.1. Einstufung des Stoffs oder Gemischs

Met. Corr. 1; H290, Kann gegenüber Metallen korrosiv sein.

Skin Corr. 1A; H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Eye Dam. 1; H318, Verursacht schwere Augenschäden.

2.2. Kennzeichnungselemente

Gefahrenpiktogramme:



Signalwort:

Gefahr

Gefahrenhinweise:

Kann gegenüber Metallen korrosiv sein. (H290)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden. (H314)

Sicherheitshinweise:

▼ Allgemeines:

Nicht zutreffend.

Prävention:

Dampf/Nebel nicht einatmen. (P260)

Augenschutz/Schutzhandschuhe/Schutzkleidung tragen. (P280)

▼ Reaktion:

BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen oder duschen. (P303+P361+P353)

BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen. (P305+P351+P338)

Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen. (P310)

Lagerung:

In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren. (P406)

Entsorgung:

Inhalt/Behälter gemäß lokalen Vorschriften zuführen. (P501)

Enthält:

Kaliumhydroxid;Ätzkali

Natriumhydroxid;Ätznatron

Andere Kennzeichnungen:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Sonstige Gefahren

Anderes:

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

Dieses Produkt enthält keine Stoffe, die gemäß den Kriterien der Delegierten Verordnung (EU) 2017/2100 der Kommission oder der Verordnung (EU) 2023/707 der Kommission als endokrine Disruptoren gelten.

ABSCHNITT 3: ZUSAMMENSETZUNG/ANGABEN ZU BESTANDTEILEN

3.1. Stoffe

Nicht zutreffend. Dieses Produkt ist ein Gemisch.

3.2. ▼ Gemische

Produkt / Substanz	Identifikatoren	% w/w	Einstufung	Anm.
Kaliumhydroxid;Ätzkali	CAS-Nr.: 1310-58-3 EG-Nr.: 215-181-3 REACH: Indexnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
Natriumhydroxid;Ätznatron	CAS-Nr.: 1310-73-2 EG-Nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Indexnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Vollständiger Text der H-Sätze - siehe Abschnitt 16. Die Grenzwerte für die Exposition am Arbeitsplatz sind, wenn verfügbar, in Abschnitt 8 wiedergegeben.

Weitere Angaben

-

ABSCHNITT 4: ERSTE-HILFE-MASSNAHMEN

4.1. Beschreibung der Erste-Hilfe-Maßnahmen

Allgemeine Hinweise:

Bei Unfällen: Arzt oder Erste-Hilfe-Raum aufsuchen - das Etikett oder dieses Sicherheitsdatenblatt mitbringen.
Bei anhaltenden Symptomen oder Zweifel über den Zustand des Geschädigten ist ärztliche Hilfe aufzusuchen.
Einem Bewusstlosen nie Wasser o.Ä. verabreichen.

Nach Einatmen:

Bei Atembeschwerden oder Reizung der Atemwege: Betroffenen an die frische Luft bringen und beaufsichtigen.

Nach Hautkontakt:

Betroffenen Bereich über einen längeren Zeitraum spülen – mindestens 30 Minuten. Eventuell wird ein Ausspülen über mehrere Stunden erforderlich. Angenehme Wassertemperatur nutzen (20 bis 30 °C).
Giftinformationsstelle/Arzt/Krankenhaus für nähere Beratung zur Nachverfolgung und Behandlung kontaktieren.
Verunreinigte Kleidung und Schuhe entfernen. Haut, die mit dem Material in Kontakt gekommen ist, ist gründlich mit Wasser und Seife zu waschen. Es kann ein Hautreinigungsmittel verwendet werden. KEIN Lösungsmittel oder Verdünner verwenden.
Bei Hautreizung: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Nach Augenkontakt:

Bei Kontakt mit den Augen: Augen sofort mit viel Wasser (20-30 °C) mindestens 30 Minuten lang spülen, bis die Reizung aufhört. Ggf. Kontaktlinsen herausnehmen. Unter dem oberen und unteren Lid spülen. Sofort Arzt aufsuchen. Während des Transports weiter spülen.

Nach Verschlucken:

Bei Einnahme: mit einem Arzt Kontakt. Dem Geschädigten Wasser zu trinken geben, wenn er bei Bewusstsein ist. KEIN Erbrechen erzwingen, es sei denn, der Arzt empfiehlt es. Kopf nach unten halten, um zu vermeiden, dass Erbrochenes zurück in Mund und Hals läuft. Schock vermeiden und den Geschädigten warm und ruhig halten.

Wenn die Atmung aufhört, künstlich beatmen. Bei Bewusstlosigkeit den Geschädigten in die stabile Seitenlage bringen. Krankenwagen rufen.

Verbrennung:

Nicht zutreffend.

4.2. Wichtigste akute und verzögert auftretende Symptome und Wirkungen

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

4.3. Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung

BEI Exposition oder falls betroffen:

Sofort ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.

Hinweise für den Arzt

Dieses Sicherheitsdatenblatt oder das Etikett des Produktes mitbringen.

ABSCHNITT 5: MASSNAHMEN ZUR BRANDBEKÄMPFUNG

5.1. Löschmittel

Nicht zutreffend.

5.2. Besondere vom Stoff oder Gemisch ausgehende Gefahren

Bei Feuer bildet sich dichter Rauch. Abbauproduktexposition kann eine gesundheitliche Gefahr bedeuten. Geschlossene, dem Feuer ausgesetzte Behälter sind mit Wasser zu kühlen. Löschwasser nicht in Kanalisation und Fließgewässer gelangen lassen.

Wenn das Produkt hohen Temperaturen ausgesetzt wird, beispielsweise bei Feuer, kann es zu gefährlichen Abbauprodukten kommen. Dabei handelt es sich um:

Einige Metalloxide

5.3. Hinweise für die Brandbekämpfung

Normale Einsatzbekleidung und voller Atemschutz.

ABSCHNITT 6: MASSNAHMEN BEI UNBEABSICHTIGTER FREISETZUNG

6.1. Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren

Direkten Kontakt mit dem ausgetretenen Stoff vermeiden.

Kontaminierte Bereiche können rutschig sein.

6.2. Umweltschutzmaßnahmen

Einleitung in Seen, Bäche, Kanalisationen usw. vermeiden.

Halten Sie Unbefugte von dem verschütteten Produkt fern.

6.3. Methoden und Material für Rückhaltung und Reinigung

Verschüttetes Material wird mit nicht brennbaren absorbierenden Materialien wie etwa Sand, Erde, Vermiculit und Diatomeenerde eingedämmt und gemäß den geltenden Regeln in Behältern gesammelt und entsorgt.

Die Reinigung erfolgt soweit möglich mit Reinigungsmitteln. Lösungsmittel sind zu vermeiden.

6.4. Verweis auf andere Abschnitte

Siehe Abschnitt 13 "Hinweise zur Entsorgung" zur Handhabung von Abfällen.

Für Schutzmaßnahmen siehe Abschnitt 8 "Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen".

ABSCHNITT 7: HANDHABUNG UND LAGERUNG

7.1. Schutzmaßnahmen zur sicheren Handhabung

Direkten Kontakt mit dem Produkt vermeiden.

Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.

Siehe Abschnitt 8 zum Persönliche Schutzausrüstungen.

7.2. Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten

Geöffnete Behälter sorgfältig verschließen und aufrecht lagern, um jegliches Auslaufen zu verhindern.

In Behälter mit widerstandsfähiger Innenauskleidung aufbewahren.

Zusammenlagerung ist erlaubt für Produkte der Lagerklassen: 2A, 2B, 3, 4.1B, 5.1B, 6.1A, 6.1B, 6.1C, 6.1D, 8A, 8B, 10, 11, 12, 13.

Zusammenlagerung ist mit Einschränkungen erlaubt für Produkte der Lagerklassen: 4.1A, 4.2, 4.3, 5.1C.

Separatlagerung ist erforderlich für Produkte aller übrigen Lagerklassen.

Geeigneten Verpackung:

Nur in Originalverpackung aufbewahren.

Lagerklasse:

Lagerklasse 8 B (Nichtbrennbare ätzende Stoffe).

TRGS 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern.

Lagerbedingungen:

Trocken, kühl und gut belüftet.

Unverträgliche Materialien:

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

7.3. Spezifische Endanwendungen

Dieses Produkt sollte nur für Anwendungen in Abschnitt 1.2 verwendet werden.

ABSCHNITT 8: BEGRENZUNG UND ÜBERWACHUNG DER EXPOSITION/PERSÖNLICHE SCHUTZAUSRÜSTUNGEN

8.1. Zu überwachende Parameter

Das Produkt enthält keine Substanzen, die in der deutschen Stoffliste mit geltendem Arbeitsplatzgrenzwert enthalten sind.

DNEL

Kaliumhydroxid;Ätzkali

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m ³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m ³

Natriumhydroxid;Ätznatron

Prüfdauer:	Expositionswege:	DNEL:
Langfristig – Systemische Auswirkungen - Allgemeine Bevölkerung	Dermal	2 %
Langfristig – Systemische Auswirkungen - Arbeiter	Dermal	<2 %
Langfristig – Örtliche Auswirkungen - Allgemeine Bevölkerung	Inhalation	1 mg/m ³
Langfristig – Örtliche Auswirkungen - Arbeiter	Inhalation	1 mg/m ³

PNEC

Natriumhydroxid;Ätznatron

Expositionswege:	Dauer der Aussetzung:	PNEC:
Erde		0.853 mg/kg TG
Kläranlagen		51 mg/L

Pulsierende Freisetzung		3.1 mg/L
Pulsierende Freisetzung (Seewasser)		2.3 mg/kg TG
Seewasser		0.64 mg/L
Süßwasser		6.4 mg/L
Süßwassersedimente		23 mg/kg TG

8.2. Begrenzung und Überwachung der Exposition

Generelle Kontrolle zum Verhindern unnötiger Freisetzung anwenden.

Allgemeine Hinweise:

Rauchen, Verzehr von Lebensmitteln und Getränken sind im Arbeitsbereich nicht zulässig.

Expositionsszenarien:

Für dieses Produkt wurden keine Expositionsszenarien implementiert.

Expositionsgrenzwerte:

Für die Inhaltsstoffe des Produktes liegen keine Expositionsgrenzen vor.

Zusätzliche Hinweise zur Gestaltung technischer Anlagen:

Stellen Sie sicher, dass Augenspülstationen und Notduschen leicht erreichbar sind.

Es gelten die üblichen Vorkehrungsmaßnahmen bei der Verwendung des Produkts. Einatmen von Dämpfen vermeiden.

Hygienemaßnahmen:

Bei jeder Pause in der Produktnutzung und bei Ende der Arbeiten sind exponierte Körperteile zu waschen.

Besonders auf Hände, Unterarme und Gesicht achten.

Begrenzung der Umweltexposition:

Bei Arbeiten mit dem Produkt dafür sorgen, dass Auffangmaterial in unmittelbarer Nähe zur Verfügung steht.

Während der Arbeit möglichst Auffangbehälter verwenden.

Individuelle Schutzmaßnahmen

Allgemeine Schutzmaßnahmen:

Nur Schutzausrüstung mit CE-Kennzeichnung verwenden.

Atemschutz:

Typ	Klasse	Farbe	Normen	
Atemschutz ist im Falle ausreichender Belüftung nicht notwendig.				

Körperschutz:

Empfohlen	Typ/Kategorien	Normen	
Es ist besondere Arbeitskleidung zu tragen.	-	-	

Handschutz:

Arbeitssituation	Material	Minimale Schichtdicke (mm)	Durchbruchzeit (min.)	Normen	
Im Falle längere Exposition oder bei hoher Konzentration	Nitrilkautschuk	0.4	> 480	EN374-2, EN16523-1, EN388	

Arbeitssituation	Material	Minimale Schichtdicke (mm)	Durchbruchzeit (min.)	Normen	
Im Falle von kurzzeitiger Exposition oder bei niedriger Konzentration	Nitrilkautschuk	1,5	> 30	EN374-2, EN16523-1, EN388	

Augenschutz:

Typ	Normen	
Schutzbrille mit Seitenschutz tragen	EN166	

ABSCHNITT 9: PHYSIKALISCHE UND CHEMISCHE EIGENSCHAFTEN

9.1. Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften

Form:

Flüssig

Farbe:

Hellgelb

▼ **Geruch / Geruchsschwelle (ppm):**

Mild

pH:

13.5

Dichte (g/cm³):

1,29 (20 °C)

Kinematische Viskosität:

Es liegen keine Daten vor.

Partikeleigenschaften:

Gilt nicht für Flüssigkeiten.

Zustandsänderungen

Schmelzpunkt/Gefrierpunkt (°C):

Es liegen keine Daten vor.

Erweichungspunkt/-bereich (°C):

Gilt nicht für Flüssigkeiten.

Siedepunkt (°C):

100

Dampfdruck:

Es liegen keine Daten vor.

Relative Dampfdichte:

Es liegen keine Daten vor.

Zersetzungstemperatur (°C):

Es liegen keine Daten vor.

Explosions und Feuer Daten

Flammpunkt (°C):

Es liegen keine Daten vor.

Entzündbarkeit (°C):

Es liegen keine Daten vor.

Zündtemperatur (°C):

Es liegen keine Daten vor.

Explosionsgrenzen (% v/v):

Es liegen keine Daten vor.

Löslichkeit

Löslichkeit in Wasser:

Vollständig löslich

n-Octanol/Wasser Verteilungskoeffizient (LogKow):

Es liegen keine Daten vor.

Löslichkeit in Fett (g/L):

Es liegen keine Daten vor.

9.2. Sonstige Angaben

Weitere physikalische und chemische Parameter:

Es liegen keine Daten vor.

Brandfördernde Eigenschaften:

Es liegen keine Daten vor.

ABSCHNITT 10: STABILITÄT UND REAKTIVITÄT

10.1. Reaktivität

Es liegen keine Daten vor.

10.2. Chemische Stabilität

Das Produkt ist unter den in Abschnitt 7 aufgeführten Bedingungen stabil.

10.3. Möglichkeit gefährlicher Reaktionen

Keine bekannt.

10.4. Zu vermeidende Bedingungen

Keine bekannt.

10.5. Unverträgliche Materialien

Starke Säuren, starke Basen, starke Oxidationsmittel und starke Reduktionsmittel.

10.6. Gefährliche Zersetzungsprodukte

Bei thermischer Zersetzung können ätzende Dämpfe entstehen.

ABSCHNITT 11: TOXIKOLOGISCHE ANGABEN

11.1. Angaben zu den Gefahrenklassen im Sinne der Verordnung (EG) Nr. 1272/2008

Akute Toxizität

Produkt / Substanz	Kaliumhydroxid;Ätzkali
Spezies:	Ratte, männlichen
Expositionswegen:	Oral
Test:	LD50
Ergebnis:	333 - 388 mg/kg

Produkt / Substanz	Natriumhydroxid;Ätznatron

Ergebnis: 45.4 mg/L

Produkt / Substanz Natriumhydroxid;Ätznatron
Spezies: Kaninchen
Test: LD 10
Ergebnis: 500 mg/kg

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Ätz-/Reizwirkung auf die Haut

Produkt / Substanz iT.33 laundry booster pro
Ergebnis: Schädliche Wirkungen beobachtet (Stark reizend)

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Schädliche Wirkungen beobachtet (Ätzend)

Produkt / Substanz Natriumhydroxid;Ätznatron
Ergebnis: Schädliche Wirkungen beobachtet (Reizend)

Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

Schwere Augenschädigung/-reizung

Produkt / Substanz iT.33 laundry booster pro
Ergebnis: Schädliche Wirkungen beobachtet (Verursacht schwere Augenschäden)

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Schädliche Wirkungen beobachtet (Stark ätzend)

Produkt / Substanz Natriumhydroxid;Ätznatron
Prüfmethode: OECD 405
Spezies: Kaninchen
Ergebnis: Schädliche Wirkungen beobachtet (Ätzend)

Verursacht schwere Augenschäden.

Sensibilisierung der Atemwege

Produkt / Substanz Kaliumhydroxid;Ätzkali
Ergebnis: Keine schädlichen Wirkungen beobachtet (nicht sensibilisierend)

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Sensibilisierung der Haut

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Keimzell-Mutagenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Karzinogenität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Reproduktionstoxizität

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei einmaliger Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Spezifische Zielorgan-Toxizität bei wiederholter Exposition

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Aspirationsgefahr

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

11.2. Angaben über sonstige Gefahren

Zusätzliche toxikologische Hinweise

Gewebezerstörende Wirkungen: Das Produkt enthält ätzende Stoffe. Wenn Dampf oder Sprühnebel eingeatmet wird, kann dies zu Lungenschäden führen und Reizung und Brennen der Atmungsorgane sowie Husten auslösen. Ätzende Stoffe verursachen unumkehrbare Schäden der Augen. Verätzt die Haut.

Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Gesundheit hormonstörende Eigenschaften aufweisen.

Sonstige Angaben

Keine bekannt.

ABSCHNITT 12: UMWELTBEZOGENE ANGABEN

12.1. Toxizität

Produkt / Substanz	iT.33 laundry booster pro
Spezies:	Andere waterorganismen, Leuciscus idus
Umwelt-kompartiment :	Wasser
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Bakterien, Pseudomonas putida
Test:	EC0
Ergebnis:	>100 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Spezies:	Wasserflöhe, Ceriodaphnia dubia
Prüfdauer:	48 Stunden
Ergebnis:	40.4 mg/L

Produkt / Substanz	Natriumhydroxid;Ätznatron
Prüfmethode:	OECD 203
Spezies:	Fisch, Oncorhynchus mykiss
Prüfdauer:	96 Stunden
Test:	LC50
Ergebnis:	45.4 mg/L

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.2. Persistenz und Abbaubarkeit

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

12.3. Bioakkumulationspotenzial

Produkt / Substanz	Natriumhydroxid;Ätznatron
Ergebnis:	Bioakkumulation nicht erwartet

12.4. Mobilität im Boden

Es liegen keine Daten vor.

12.5. Ergebnisse der PBT- und vPvB-Beurteilung

Diese Mischung/dieses Produkt enthält keine Substanzen, die den Kriterien für eine Klassifizierung als PBT- und/oder vPvB-Stoff entsprechen.

12.6. Endokrinschädlichen Eigenschaften

Diese Mischung/dieses Produkt enthält keine Substanzen, von denen angenommen wird, dass sie in Bezug auf die Umwelt endokrinschädigende Eigenschaften aufweisen.

12.7. Andere schädliche Wirkungen

Keine bekannt.

ABSCHNITT 13: HINWEISE ZUR ENTSORGUNG

13.1. Verfahren der Abfallbehandlung

Das Produkt sollte als gefährlicher Abfall behandelt werden. (*)

HP 8 - Ätzend

Inhalt/Behälter zugelassenem Entsorger oder kommunaler Sammelstelle zuführen.

VERORDNUNG (EU) Nr. 1357/2014 der Kommission vom 18. Dezember 2014 über Abfälle.

Abfallschlüsselnr. (EWC):

20 01 29* Reinigungsmittel, die gefährliche Stoffe enthalten

Ungereinigte Verpackungen

Verpackungen mit Produktrückständen sind nach den gleichen Bedingungen zu entsorgen, wie das Produkt selbst.

ABSCHNITT 14: ANGABEN ZUM TRANSPORT

	14.1 UN	14.2 Ordnungsgemäße UN- Versandbezeichnung	14.3 Transportgefahrenklassen	14.4 PG*	14.5. Env**	Weitere Angaben:
ADR	UN1719	ÄTZENDER ALKALISCHER FLÜSSIGER STOFF, N.A.G. (Kaliumhydroxid;Ätzkali, Natriumhydroxid;Ätznatron)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L Tunnelbeschränkungs code: (E) Nähere Informationen siehe unten.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Begrenzte Mengen: 1 L EmS: F-A S-B Nähere Informationen siehe unten.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportgefahren-klassen: 8 Gefahrzettel: 8 Klassifizierungscode: C5 	II	Nein	Nähere Informationen siehe unten.

* Verpackungsgruppe

** Umweltgefahren

Anderes

Das Produkt fällt unter die Gefahrgutkonventionen.

ADR / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle A, Abschnitt 3.2.1. Schriftliche Anweisungen zur Schadensvermeidung bei transportbezogenen Un- oder Zwischenfällen siehe Abschnitt 5.4.3.

IMDG / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Abschnitt 3.2.1.

IATA / Information zu besonderen Vorkehrungen, Bedingungen oder Warnungen in Bezug auf den Transport siehe Tabelle 4.2.

14.6. Besondere Vorsichtsmaßnahmen für den Verwender

Nicht zutreffend.

14.7. Massengutbeförderung auf dem Seeweg gemäß IMO-Instrumenten

Es liegen keine Daten vor.

ABSCHNITT 15: RECHTSVORSCHRIFTEN

15.1. Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch

Nutzungsbeschränkungen:

Nur für gewerbliche Anwender.

Das Produkt darf erwerbsmäßig nicht von jungen Menschen unter 18 Jahren eingesetzt werden.

Bedarf für spezielle Schulung:

Keine besonderen Anforderungen.

Der Störfallverordnung - Gefahrenkategorien / Namentlich aufgeführte gefährliche Stoffe:

Nicht zutreffend.

WGK-Einstufung:

Wassergefährdungsklasse: WGK 1

Anderes:

Nicht zutreffend.

Verwendete Quellen:

Gesetz zum Schutz der arbeitenden Jugend (Jugendarbeitsschutzgesetz – JArbSchG).

VERORDNUNG (EG) Nr. 648/2004 des Europäischen Parlaments und des Rates vom 31. März 2004 über Detergenzien.

VERORDNUNG (EU) Nr. 1357/2014 der Kommission vom 18. Dezember 2014 über Abfälle.

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV).

VERORDNUNG (EG) Nr. 1272/2008 des Europäischen Parlaments und des Rates vom 16. Dezember 2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (CLP).

Verordnung (EG) Nr. 1907/2006 des Europäischen Parlaments und des Rates vom 18. Dezember 2006 zur Registrierung, Bewertung, Zulassung und Beschränkung chemischer Stoffe (REACH).

15.2. Stoffsicherheitsbeurteilung

Nein

ABSCHNITT 16: SONSTIGE ANGABEN

H-Sätze (Abschnitt 3)

H290, Kann gegenüber Metallen korrosiv sein.

H302, Gesundheitsschädlich bei Verschlucken.

H314, Verursacht schwere Verätzungen der Haut und schwere Augenschäden.

H315, Verursacht Hautreizungen.

H318, Verursacht schwere Augenschäden.

H319, Verursacht schwere Augenreizung.

Abkürzungen und Akronyme

ADN = Europäisches Übereinkommen über die internationale Beförderung von gefährlichen Gütern auf Binnenwasserstrassen
ADR = Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Strasse
ak = andere kontrollpflichtige Abfälle
akb = andere kontrollpflichtige Abfälle mit Begleitscheinpflicht
ATE = Schätzwert akute Toxizität
BCF = Biokonzentrationsfaktor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (Europäische Konformität)
CLP = Verordnung über die Einstufung, Kennzeichnung und Verpackung [Verordnung (EG) Nr. 1272/2008]
CSA = Stoffsicherheitsbeurteilung
CSR = Stoffsicherheitsbericht
DMEL = Abgeleiteter Minimaler-Effekt-Grenzwert
DNEL = Abgeleiteter Nicht-Effekt-Grenzwert
EAK = Europäischer Abfallkatalog
EINECS = Altstoffverzeichnis
ES = Expositionsszenario EUH-Satz = CLP-spezifischer Gefahrenhinweis
EuPCS = Europäisches Produktkategorisierungssystem
GHS = Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien
GWP = Potenzial zur Erwärmung der Erdatmosphäre
IATA = Internationale Flug-Transport-Vereinigung
IBC = Intermediate Bulk Container
IMDG = Gefährliche Güter im internationalen Seeschiffsverkehr
LogPow = Dekadischer Logarithmus des Oktanol-Wasser-Verteilungskoeffizienten
MARPOL = Internationales Übereinkommen von 1973 zur Verhütung der Meeresverschmutzung durch Schiffe in der Fassung des Protokolls von 1978. ("Marpol" = marine pollution)
nwg = Nicht wassergefährdend
OECD = Organisation für wirtschaftliche Zusammenarbeit und Entwicklung
PBT = Persistent, bioakkumulierbar und toxisch
PNEC = Abgeschätzte Nicht-Effekt-Konzentration
RID = Regelung zur internationalen Eisenbahnbeförderung gefährlicher Güter
RRN = REACH Registriernummer
S = Sonderabfälle
SCL = Spezifischen Konzentrationsgrenzwert.
SVHC = Besonders besorgniserregende Substanzen
STOT-RE = Spezifische Zielorgan-Toxizität - Wiederholte Exposition
STOT-SE = Spezifische Zielorgan-Toxizität - Einmalige Exposition
UN = Vereinigte Nationen
UVCB = Stoffe mit unbekannter oder variabler Zusammensetzung, komplexe Reaktionsprodukte und biologische Materialien.
VOC = Flüchtige organische Verbindungen
vPvB = Sehr persistent und sehr bioakkumulierbar
WGK = Wassergefährdungsklasse

Anderes

Die Klassifizierung der Mischung hinsichtlich der Gesundheitsgefahren entspricht den von der Verordnung (EU) Nr. 1272/2008 (CLP) vorgegebenen Berechnungsmethoden.

Sicherheitsdatenblatt abgenommen durch

Quality & Compliance

Anderes

Änderungen im Verhältnis zur letzten umfassenden Revision (erste Ziffer in der SDS-Version, s. Abschnitt 1) dieses Sicherheitsdatenblatts sind mit einem Dreieck markiert.

Angaben in diesem Sicherheitsdatenblatt gelten nur für das Produkt in Abschnitt 1 und gelten nicht unbedingt bei Einsatz zusammen mit anderen Produkten.

Es wird empfohlen, dem tatsächlichen Produktbenutzer dieses Sicherheitsdatenblatt auszuhändigen. Die erwähnten Angaben sind nicht als Produktspezifikation zu verwenden.

Land-sprache: DE-de

SIKKERHEDSDATABLAD

iT.33 laundry booster pro

PUNKT 1: IDENTIFIKATION AF STOFFET/BLANDINGEN OG AF SELSKABET/VIRKSOMHEDEN

1.1. Produktidentifikator

Handelsnavn:

iT.33 laundry booster pro

Unik formelidentifikator (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevante identificerede anvendelser for stoffet eller blandingen samt anvendelser, der frarådes

Relevante identificerede anvendelser for stoffet eller blandingen:

Vask- og rengøringsprodukt (indeholdende opløsningsmiddelbaserede produkter)

Udelukkende til erhvervsmæssig brug.

Anvendelser der frarådes :

Ingen kendte.

1.3. Nærmere oplysninger om leverandøren af sikkerhedsdatabladet

Firmanavn og adresse:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revision:

14.08.2025

SDS Version:

2.0

Dato for forrige udgave:

28.07.2025 (1.0)

1.4. Nødtelefon

Kontakt Giftlinjen på telefon +45 82 12 12 12 (åbent 24 timer i døgnet).

Se punkt 4 om førstehjælpsforanstaltninger.

PUNKT 2: FAREIDENTIFIKATION

Klassificeret i henhold til Europa-Parlamentets og Rådets forordning (EF) nr. 1272/2008 (CLP).

I overensstemmelse med Forordning (EF) nr. 1907/2006 (REACH), bilag II, med senere tilpasning i henhold til Forordning (EU) nr. 2020/878

2.1. Klassificering af stoffet eller blandingen

Met. Corr. 1; H290, Kan ætse metaller.

Skin Corr. 1A; H314, Forårsager svære ætsninger af huden og øjenskader.

Eye Dam. 1; H318, Forårsager alvorlig øjenskade.

2.2. Mærkningselementer

Farepiktogram:



Signalord:

Fare

Faresætninger:

Kan ætse metaller. (H290)

Forårsager svære ætsninger af huden og øjenskader. (H314)

Sikkerhedssætning(er):

▼ Generelt:

Ikke relevant.

Forebyggelse:

Indånd ikke damp/tåge. (P260)

Bær øjenbeskyttelse/beskyttelseshandsker/beskyttelsestøj. (P280)

▼ Reaktion:

VED KONTAKT MED HUDEN (eller håret): Tilsmudset tøj tages straks af/fjernes. Skyl eller brus huden med vand. (P303+P361+P353)

VED KONTAKT MED ØJNE: Skyl forsigtigt med vand i flere minutter. Fjern eventuelle kontaktlinser, hvis dette kan gøres let. Fortsæt skylning. (P305+P351+P338)

Ring omgående til GIFTLINJEN/læge. (P310)

Opbevaring:

Opbevares i beholder med modstandsdygtig foring. (P406)

Bortskaffelse:

Indholdet/beholderen bortskaffes i overensstemmelse med lokale regler. (P501)

Oplysningspligtige indholdsstoffer:

kaliumhydroxid

natriumhydroxid

Anden mærkning:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Andre farer

Andet:

Blandingen/produktet indeholder ingen stoffer, som opfylder kriterierne for at skulle klassificeres som et PBT- og/eller vPvB-stof.

Produktet indeholder ingen stoffer, der er vurderet til at være hormonforstyrrende i overensstemmelse med kriterierne i Kommissionens delegerede forordning (EU) 2017/2100 eller Kommissionens forordning (EU) 2023/707.

PUNKT 3: SAMMENSÆTNING AF/OPLYSNING OM INDHOLDSTOFFER

3.1. Stoffer

I overensstemmelse med Forordning (EF) nr. 1907/2006 (REACH), bilag II, med senere tilpasning i henhold til Forordning (EU) nr. 2020/878

Finder ikke anvendelse. Dette produkt er en blanding.

3.2. ▼ Blandinger

Produkt/Substans	Identifikatorer	% w/w	Klassificering	Bem.
kaliumhydroxid	CAS nr: 1310-58-3 EF nr: 215-181-3 REACH: Indeksnr: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natriumhydroxid	CAS nr: 1310-73-2 EF nr: 215-185-5 REACH: 01-2119457892-27-XXXX Indeksnr: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Den fulde ordlyd af H-sætningerne findes i punkt 16. Arbejdshygieniske grænseværdier er nævnt i punkt 8, såfremt de er tilgængelige.

Andre oplysninger

-

PUNKT 4: FØRSTEHJÆLPSFORANSTALTNINGER

4.1. Beskrivelse af førstehjælpsforanstaltninger

Generelt:

Ved uheld: Kontakt læge eller skadestue - medbring etiketten eller dette sikkerhedsdatablad. Lægen kan rette henvendelse til Arbejds- og miljømedicinsk klinik, Bispebjerg Hospital, tlf. 38 63 61 72.

Ved vedvarende symptomer eller ved tvivl om den tilskadekomnes tilstand skal der søges lægehjælp. Giv aldrig en bevidstløs person vand eller lignende.

Indånding:

Ved åndedrætsbesvær eller anden irritation af luftvejene: Bring personen ud i frisk luft og hold personen under opsyn.

Hudkontakt:

Det er vigtigt at skylle længe – mindst 30 minutter. Det kan være nødvendigt at skylle i flere timer. Brug en behagelig vandtemperatur (20-30 °C). Kontakt Giftinformation/læge/hospital for yderligere rådgivning om opfølgning og behandling.

Forurenet tøj og sko fjernes. Hud, der har været i kontakt med materialet vaskes grundigt med vand og sæbe.

Hudrensemiddel kan anvendes. Brug IKKE opløsningsmidler eller fortyndere.

Ved hudirritation: Søg lægehjælp.

Øjenkontakt:

Ved kontakt med øjnene: Skyl straks øjnene med rigelige mængder vand eller saltvand (20-30 °C) indtil irritationen ophører og mindst i 30 minutter. Fjern evt. kontaktlinser. Sørg for at skylle under øvre og nedre øjenlåg. Søg straks lægehjælp og fortsæt skyllingen under transporten derhen.

Indtagelse:

Ved indtagelse, kontakt omgående læge. Giv den tilskadekomne vand at drikke hvis vedkommende er ved bevidsthed. Forsøg IKKE at fremkalde opkastning medmindre lægen anbefaler det. Sænk hovedet, således at opkast ikke vil løbe tilbage i munden og halsen. Forebyg chok ved at holde den tilskadekomne varm og i ro. Giv

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kunstigt åndedræt hvis åndedrættet ophører. Ved bevidstløshed; anbring den tilskadekomne i aflåst sideleje. Tilkald ambulance.

Forbrænding:

Ikke relevant.

4.2. Vigtigste symptomer og virkninger, både akutte og forsinkede

Vævsødelæggende virkninger: Produktet indeholder stoffer som er ætsende. Hvis damp eller aerosoler indåndes kan det give skader på lunger og forårsage irritation og svie i åndedrætsorganerne samt hoste. Ætsende stoffer forårsager irreversible skader på øjne. Ætser huden.

4.3. Angivelse af om øjeblikkelig lægehjælp og særlig behandling er nødvendig

VED eksponering eller mistanke om eksponering:

Søg omgående lægehjælp.

Oplysning til lægen

Medbring dette sikkerhedsdatablad eller etiketten fra materialet.

PUNKT 5: BRANDBEKÆMPELSE

5.1. Slukningsmidler

Ikke relevant.

5.2. Særlige farer i forbindelse med stoffet eller blandingen

Brand vil udvikle tæt røg. Udsættelse for nedbrydningsprodukter kan udgøre en sundhedsfare. Lukkede beholdere, der udsættes for ild, afkøles med vand. Lad ikke vand fra brandslukning løbe ud i kloakker og vandløb.

Hvis produktet udsættes for høje temperaturer, fx i tilfælde af brand, kan der dannes farlige nedbrydningsprodukter.

Disse er:

Nogle metaloxider

5.3. Anvisninger for brandmandskab

Brug fuld åndedrætsbeskyttelse og beskyttelsesbeklædning for at forhindre kontakt. Ved direkte kontakt med kemikaliet kan indsatsleder kontakte kemikalieberedskabsvagten på telefon 72 85 20 00 (døgnvagt), med henblik på yderligere rådgivning.

PUNKT 6: FORHOLDSREGLER OVER FOR UDSLIP VED UHELD

6.1. Personlige sikkerhedsforanstaltninger, personlige værnemidler og nødprocedurer

Undgå direkte kontakt med spildt stof.

Sørg for tilstrækkelig ventilation, især i lukkede områder.

Forurenede arealer kan være glatte.

6.2. Miljøbeskyttelsesforanstaltninger

Undgå udledning til søer, åer, kloakker mv.

Hold uautoriserede personer væk fra spildet

6.3. Metoder og udstyr til inddæmning og oprensning

Spild begrænses og opsamles med ikke-brandbart absorberende materiale, f.eks. sand, jord, vemiculite, diatomejord og placeres i beholder og bortskaffes i overensstemmelse med gældende regler.

Rengøring foretages så vidt muligt med rengøringsmidler. Opløsningsmidler bør undgås.

6.4. Henvisning til andre punkter

Se punkt 13 "Bortskaffelse" om håndtering af affald.

Se punkt 8 "Eksponeringskontrol/personlige værnemidler" for beskyttelsesforanstaltninger.

PUNKT 7: HÅNTERING OG OPBEVARING

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7.1. Forholdsregler for sikker håndtering

Undgå direkte kontakt med produktet.
Rygning samt indtagelse af mad og drikke er ikke tilladt i arbejdslokaler.
Se punktet "Eksponeringskontrol/personlige værnemidler" for oplysning om personlig beskyttelse.

7.2. Betingelser for sikker opbevaring, herunder eventuel uforenelighed

Åbnet emballage skal lukkes omhyggeligt og opbevares oprejst for at forebygge lækage.
Opbevares i beholder med modstandsdygtig foring.

Anbefalet opbevaringsmateriale:

Opbevares kun i originalemballagen.

Opbevaringsbetingelser:

Tørt, køligt og velventileret

Materialer, der skal undgås:

Stærke syrer, stærke baser, stærke oxidationsmidler og stærke reduktionsmidler.

7.3. Særlige anvendelser

Produktet bør kun bruges til anvendelser beskrevet i punkt 1.2.

PUNKT 8: EKSPONERINGSKONTROL/PERSONLIGE VÆRNEMIDLER

8.1. Kontrolparametre

kaliumhydroxid

Grænseværdi (15 minutter) (mg/m³): 2

natriumhydroxid

Grænseværdi (15 minutter) (mg/m³): 2

Anmærkninger:

L = Grænseværdien er en loftsværdi, som ikke på noget tidspunkt må overskrides.

Bekendtgørelse nr. 1619 om grænseværdier for stoffer og materialer af 19/12/2024.

DNEL

kaliumhydroxid

Varighed:	Eksponeringsvej:	DNEL:
På lang sigt – lokale virkninger - arbejdere	Indånding	1 mg/m ³
På lang sigt – lokale virkninger - forbruger	Indånding	1 mg/m ³

natriumhydroxid

Varighed:	Eksponeringsvej:	DNEL:
På lang sigt – systemiske virkninger - arbejdere	Dermal	<2 %
På lang sigt – systemiske virkninger - forbruger	Dermal	2 %
På lang sigt – lokale virkninger - arbejdere	Indånding	1 mg/m ³
På lang sigt – lokale virkninger - forbruger	Indånding	1 mg/m ³

PNEC

natriumhydroxid

Eksponeringsvej:	Varighed af eksponering:	PNEC:
Ferskvand		6.4 mg/L
Ferskvandssediment		23 mg/kg TG

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Hawand		0.64 mg/L
Jord		0.853 mg/kg TG
Periodisk udslip		3.1 mg/L
Periodisk udslip (hawand)		2.3 mg/kg TG
Spildevandsbehandlingsanlæg		51 mg/L

8.2. Eksponeringskontrol

Overholdelse af de angivne grænseværdier bør kontrolleres regelmæssigt. Se evt. At-vejledning D.7.1, maj 2001.

Generelle forholdsregler:

Rygning samt indtagelse af mad og drikke er ikke tilladt i arbejdslokaler.

Eksponeringsscenarier:

Der er ikke implementeret nogen eksponeringsscenarier for dette produkt.

Eksponeringsgrænse:

Erhvervsmæssige brugere er omfattet af arbejdsmiljølovgivningens regler om maksimumkoncentrationer for eksponering. Se arbejdshygiejniske grænseværdier ovenfor.

Tekniske tiltag:

Udvikling af dampe skal holdes lavest muligt og under de pågældende grænseværdier (se ovenfor). Brug eventuelt punktudsugning såfremt almindelig luftgennemstrømning i arbejdslokalet ikke er tilstrækkeligt. Sørg for synlig skiltning af øjenskyl og nødbruiser.

Sørg for, at øjensskyllestation og sikkerhedsbruser er placeret inden for rækkevidde.

Udvis almindelig forsigtighed ved brug af produktet. Undgå indånding af dampe.

Hygiejniske foranstaltninger:

Ved hver pause i brug af produktet og ved arbejdets ophør skal eksponerede områder af kroppen afvaskes. Vær særlig opmærksom på hænder, underarme og ansigt.

Foranstaltninger til begrænsning af eksponering af miljøet:

Sørg for, at der ved arbejde med produktet forefindes opdæmningsmateriale i umiddelbar nærhed. Brug om mulig spildbakker under arbejdet.

Individuelle beskyttelsesforanstaltninger

Generelt:

Anvend kun CE-mærket værneudstyr.

Luftvejene:

Type	Klasse	Farve	Standarder	
Ved tilstrækkelig ventilation er åndedrætsværn ikke nødvendigt.				

Hud og krop:

Type	Type/Kategori	Standarder	
Særligt arbejdstøj bør anvendes.	-	-	

Hænder:

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Arbejdssituation	Materiale	Handsketykkelse (mm)	Gennembrudstid (min.)	Standarder	
I tilfælde af langvarig eksponering eller høje koncentrationer	Nitrilgummi	0.4	> 480	EN374-2, EN16523-1, EN388	
I tilfælde af kort eksponering eller lav koncentration	Nitrilgummi	1,5	> 30	EN374-2, EN16523-1, EN388	

Øjne:

Type	Standarder	
Beskyttelsesbriller med sideskjold	EN166	

PUNKT 9: FYSISKE OG KEMISKE EGENSKABER

9.1. Oplysninger om grundlæggende fysiske og kemiske egenskaber

Fysisk form:

Flydende

Farve:

Svagt gul

▼ *Lugt / Lugttærskel (ppm):*

Mild

pH:

13.5

Massefylde (g/cm³):

1,29 (20 °C)

Kinematisk viskositet:

Ingen data tilgængelige.

Partikelegenskaber:

Finder ikke anvendelse på væsker.

Tilstandsændring og dampe

Smeltepunkt/frysepunkt (°C):

Ingen data tilgængelige.

Blødgøringspunkt/-interval (°C):

Finder ikke anvendelse på væsker.

Kogepunkt (°C):

100

Damptryk:

Ingen data tilgængelige.

Relativ dampmassefylde:

Ingen data tilgængelige.

Nedbrydningstemperatur (°C):

Ingen data tilgængelige.

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Data for brand- og eksplosionsfare

Flammepunkt (°C):

Ingen data tilgængelige.

Antændelighed (°C):

Ingen data tilgængelige.

Selvantændelsestemperatur (°C):

Ingen data tilgængelige.

Øvre og nedre eksplosionsgrænse (% v/v):

Ingen data tilgængelige.

Opløselighed

Opløselighed i vand:

Fuldt opløseligt

n-octanol/vand koefficient (LogKow):

Ingen data tilgængelige.

Opløselighed i fedt (g/L):

Ingen data tilgængelige.

9.2. Andre oplysninger

Andre fysiske og kemiske parametre:

Ingen data tilgængelige.

Oxiderende egenskaber:

Ingen data tilgængelige.

PUNKT 10: STABILITET OG REAKTIVITET

10.1. Reaktivitet

Ingen data tilgængelige.

10.2. Kemisk stabilitet

Produktet er stabilt under de betingelser, som er angivet i punkt 7 "Håndtering og opbevaring".

10.3. Risiko for farlige reaktioner

Ingen kendte.

10.4. Forhold, der skal undgås

Ingen kendte.

10.5. Materialer, der skal undgås

Stærke syrer, stærke baser, stærke oxidationsmidler og stærke reduktionsmidler.

10.6. Farlige nedbrydningsprodukter

Termisk nedbrydning kan producere ætsende dampe.

PUNKT 11: TOKSIKOLOGISKE OPLYSNINGER

11.1. Oplysninger om fareklasser som defineret i forordning (EF) nr. 1272/2008

Akut toksicitet

Produkt/Substans	kaliumhydroxid
Art:	Rotte, hanner
Eksponeringsvej:	Oral
Test:	LD50

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Resultat:	333 - 388 mg/kg

Produkt/Substans Resultat:	natriumhydroxid 45.4 mg/L

Produkt/Substans Art: Test: Resultat:	natriumhydroxid Kanin LD 10 500 mg/kg

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Hudætsning/-irritation

Produkt/Substans Resultat:	iT.33 laundry booster pro Skadelige virkninger observeret (Meget irriterende)

Produkt/Substans Resultat:	kaliumhydroxid Skadelige virkninger observeret (Ætsende)

Produkt/Substans Resultat:	natriumhydroxid Skadelige virkninger observeret (Irriterende)

Forårsager svære ætsninger af huden og øjenskader.

Alvorlig øjenskade/øjenirritation

Produkt/Substans Resultat:	iT.33 laundry booster pro Skadelige virkninger observeret (Forårsager alvorlig øjenskade)

Produkt/Substans Resultat:	kaliumhydroxid Skadelige virkninger observeret (Meget ætsende)

Produkt/Substans Forsøgsmetode: Art: Resultat:	natriumhydroxid OECD 405 Kanin Skadelige virkninger observeret (Ætsende)

Forårsager alvorlig øjenskade.

Respiratorisk sensibilisering

Produkt/Substans Resultat:	kaliumhydroxid Ingen skadelige virkninger observeret (ikke sensibiliserende)

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Hudsensibilisering

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Kimcellemutagenicitet

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Kræftfremkaldende egenskaber

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Reproduktionstoksicitet

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Enkel STOT-eksponering

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

Gentagne STOT-eksponeringer

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

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Aspirationsfare

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

11.2. Oplysninger om andre farer

Langtidsvirkninger

Vævsødelæggende virkninger: Produktet indeholder stoffer som er ætsende. Hvis damp eller aerosoler indåndes kan det give skader på lunger og forårsage irritation og svie i åndedrætsorganerne samt hoste. Ætsende stoffer forårsager irreversible skader på øjne. Ætser huden.

Hormonforstyrrende egenskaber

Blandingen/produktet indeholder ingen stoffer, som er vurderet til at have hormonforstyrrende egenskaber i forhold til sundhed.

Andre oplysninger

Ingen kendte.

PUNKT 12: MILJØOPLYSNINGER

12.1. Toksicitet

Produkt/Substans	iT.33 laundry booster pro
Art:	Andere waterorganismen, Leuciscus idus
Delmiljø:	Vand
Varighed:	96 timer
Test:	LC50
Resultat:	>100 mg/L

Produkt/Substans	natriumhydroxid
Art:	Bakterie, Pseudomonas putida
Test:	EC0
Resultat:	>100 mg/L

Produkt/Substans	natriumhydroxid
Art:	Dafnier, Ceriodaphnia dubia
Varighed:	48 timer
Resultat:	40.4 mg/L

Produkt/Substans	natriumhydroxid
Forsøgsmetode:	OECD 203
Art:	Fisk, Oncorhynchus mykiss
Varighed:	96 timer
Test:	LC50
Resultat:	45.4 mg/L

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

12.2. Persistens og nedbrydelighed

På grundlag af de foreliggende data anses kriterierne for klassificering ikke for at være opfyldt.

12.3. Bioakkumuleringspotentiale

Produkt/Substans	natriumhydroxid
Konklusion:	Bioakkumulering er ikke forventeligt

12.4. Mobilitet i jord

Ingen data tilgængelige.

12.5. Resultater af PBT- og vPvB-vurdering

Blandingen/produktet indeholder ingen stoffer, som opfylder kriterierne for at skulle klassificeres som et PBT- og/eller vPvB-stof.

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12.6. Hormonforstyrrende egenskaber

Blandingen/produktet indeholder ingen stoffer, som er vurderet til at have hormonforstyrrende egenskaber i forhold til miljøet.

12.7. Andre negative virkninger

Ingen kendte.

PUNKT 13: BORTSKAFFELSE

13.1. Metoder til affaldsbehandling

Produktet er omfattet af reglerne om farligt affald. (*)

HP 8 - Ætsende

Indhold/beholder bortskaffes i henhold til lokale affaldsregulativer.

Kommissionens Forordning (EU) nr. 1357/2014 af 18. december 2014 om affald.

EAK-kode:

20 01 29* Detergenter indeholdende farlige stoffer

Affaldsgruppe:

Gr. Z Affald, som ikke kan placeres i øvrige grupper

Særlig mærkning

Ikke relevant.

Forurennet emballage

Emballager, med restindhold af produktet, bortskaffes efter samme betingelser som produktet.

PUNKT 14: TRANSPORTOPLYSNINGER

	14.1 UN	14.2 UN-forsendelsesbetegnelse	14.3 Transportfareklasse(r)	14.4 PG*	14.5. Env**	Andre oplysninger:
ADR	UN1719	ÆTSENDE ALKALISK VÆSKE, N.O.S. (kaliumhydroxid, natriumhydroxid)	Transportfareklasse: 8 Faresedler: 8 Klassifikationskode: C5 	II	Nej	Begrænsede mængder: 1 L Tunnelrestriktionskode: (E) Se i øvrigt yderligere information nedenfor.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transportfareklasse: 8 Faresedler: 8 Klassifikationskode: C5 	II	Nej	Begrænsede mængder: 1 L EmS: F-A S-B Se i øvrigt yderligere information nedenfor.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash,	Transportfareklasse: 8 Faresedler: 8	II	Nej	Se i øvrigt yderligere

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	14.1 UN	14.2 UN-forsendelsesbetegnelse	14.3 Transportfareklasse(r)	14.4 PG*	14.5. Env**	Andre oplysninger:
		sodium hydroxide;caustic soda)	Klassifikationskode: C5 			information nedenfor.

* Emballagegruppe

** Miljøfarer

Anden information

Produktet er omfattet af konventionerne om farligt gods.

ADR / Se Tabel A, sektion 3.2.1 for eventuelle oplysninger om særlige forhold, krav og advarsler i forbindelse med transport. Se Skriftlige Anvisninger, sektion 5.4.3, med henblik på minimering af skader i forbindelse med uheld eller ulykker under transport.

IMDG / Se sektion 3.2.1 for eventuelle oplysninger om særlige forhold, krav og advarsler i forbindelse med transport.

IATA / Se Tabel 4.2, for eventuelle oplysninger om særlige forhold, krav og advarsler i forbindelse med transport.

14.6. Særlige forsigtighedsregler for brugeren

Ikke relevant.

14.7. Bulktransport til søs i henhold til IMO-instrumenter

Ingen data tilgængelige.

PUNKT 15: OPLYSNINGER OM REGULERING

15.1. Særlige bestemmelser/særlig lovgivning for stoffet eller blandingen med hensyn til sikkerhed, sundhed og miljø

Anvendelsesbegrænsninger:

Udelukkende til erhvervsmæssig brug.

Produktet må ikke anvendes erhvervsmæssigt af unge under 18 år. Se Arbejdstilsynets bekendtgørelse nr. 1049 af 30. maj 2021 om unges arbejde for evt. undtagelser.

Krav om særlig uddannelse:

Ingen særlige krav.

SEVESO - Farekategorier / Navngivne farlige stoffer:

Ikke relevant.

Andet:

Ikke relevant.

Kilder:

Arbejdstilsynets bekendtgørelse nr. 1049 af 30. maj 2021 om unges arbejde. Baseret på Rådets direktiv 94/33/EF af 22. juni 1994 om beskyttelse af unge på arbejdspladsen.

Europa-Parlamentets og Rådets forordning nr. 648/2004 af 31. marts 2004 om vaske- og rengøringsmidler.

Kommissionens Forordning (EU) nr. 1357/2014 af 18. december 2014 om affald.

Europa-Parlamentets og Rådets forordning (EF) nr. 1272/2008 af 16. december 2008 om klassificering, mærkning og emballering af stoffer og blandinger (CLP).

Europa-Parlamentets og Rådets forordning (EF) nr. 1907/2006 af 18. december 2006 om registrering, vurdering og godkendelse af samt begrænsninger for kemikalier (REACH).

15.2. Kemikaliesikkerhedsvurdering

Nej

PUNKT 16: ANDRE OPLYSNINGER

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Den fulde ordlyd af H-sætninger omtalt i punkt 3

H290, Kan ætse metaller.
H302, Farlig ved indtagelse.
H314, Forårsager svære ætsninger af huden og øjenskader.
H315, Forårsager hudirritation.
H318, Forårsager alvorlig øjenskade.
H319, Forårsager alvorlig øjenirritation.

Forkortelser og initialord

ADN = Europæiske Bestemmelser vedrørende International Transport af Farligt Gods ad Indre Vandveje
ADR = Europæisk Konvention om International Transport af Farligt Gods ad Vej
ATE = Vurdering af Akut Toksicitet
BCF = Biokoncentrationsfaktor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (den europæiske konformitetskomite)
CLP = Lovgivning om Klassificering, Mærkning og Emballering af stoffer og blandinger [Europaparlamentets og Rådets Forordning (EF) Nr. 1272/2008]
CSA = Kemikaliesikkerhedsvurderinger
CSR = Kemikaliesikkerhedsrapport
DNEL = Derived-No-Effect-Level
EINECS = Europæisk Fortegnelse over Eksisterende Markedsførte Kemiske Stoffer
ES = Eksponeringsscenario
EUH sætning = CLP-specificeret faresætning
EuPCS = Det europæiske produktkategoriseringssystem
EWC = Europæisk Affaldskatalog
FN = Forenede Nationer
GHS = Globalt harmoniseret system til klassificering og mærkning af kemikalier
GWP = Potentiale for global opvarmning
IARC = Internationale agentur for kræftforskning
IATA = International Air Transport Association
IMDG = Den Internationale Kode for Søtransport af Farligt Gods
LogPow = Logaritme af oktanol/vand-fordelingskoefficienten
MARPOL = Den Internationale Konvention om Forebyggelse af Forurening Fra Skibe, 1973 som modificeret ved Protokollen af 1978.
OECD = Organisationen for Økonomisk Samarbejde og Udvikling
PBT = Persistent, Bioakkumulerende og Toksisk
PNEC = Predicted-No-Effect-Concentration
RID = Lovgivningen om International Transport af Farligt Gods på Bane
RRN = REACH Registreringsnummer
SCL = Specifik koncentrationsgrænse.
STOT-RE = Specifik Målgangstoksicitet — Gentagen Eksponering
STOT-SE = Specifik Målgangstoksicitet — Enkelt Eksponering
SVHC = Substances of Very High Concern
TWA = Tidsvægtet gennemsnit
VOC = Flygtige Organiske Bestanddele
vPvB = Meget Persistent og Meget Bioakkumulerende

Anden information

Klassificeringen af blandingen for sundhedsfarer er baseret på beregningsmetoderne i CLP.

Sikkerhedsdatabladet er valideret af

Quality & Compliance

Andet

Ændringer i forhold til sidste væsentlige revision (første ciffer i SDS Version, se punkt 1) af dette sikkerhedsdatablad er markeret med en blå trekant.

I overensstemmelse med Forordning (EF) nr. 1907/2006 (REACH), bilag II, med senere tilpasning i henhold til Forordning (EU) nr. 2020/878

Oplysningerne i dette sikkerhedsdatablad gælder kun produktet nævnt i punkt 1 og er ikke nødvendigvis gældende ved brug sammen med andre produkter.

Det anbefales at udlevere dette sikkerhedsdatablad til den faktiske bruger af produktet. Den nævnte information kan ikke bruges som produktspecifikation.

Land-sprog: DK-da

OHUTUSKAART

iT.33 laundry booster pro

1. JAGU. AINE/SEGU NING ÄRIÜHINGU/ETTEVÕTJA IDENTIFITSEERIMINE

1.1. Tootetähis

Nimetus:

iT.33 laundry booster pro

Unikaalse koostise identifitseerija (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Aine või segu asjaomased kindlaksmääratud kasutusalaad ning kasutusalaad, mida ei soovitata

Kemikaali või segu asjakohased määratud kasutuseesmärgid:

Detergendid ja puhastusvahendid (sh lahustipõhised)

Üksnes kutsealaseks kasutamiseks.

Kasutusalaad, mida ei soovitata:

Keegi pole tuttav.

1.3. Andmed ohutuskaardi tarnija kohta

Ettevõtte ja aadress:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Muudetud:

14.08.2025

Ohutuskaardi versioon::

2.0

Eelmise väljaande kuupäev:

28.07.2025 (1.0)

1.4. Hädaabitelefoni number

Häirekeskus: 112

Mürgistuskeskuse infotelefon 16662 Eesti piires töötab 24/7 ja on kõigile helistajatele tasuta. ja (+372) 7943 794 välismaalt helistamiseks.

Kaitsemeetmeid vt jaotisest „Esmabimeetmed“.

2. JAGU. OHTUDE IDENTIFITSEERIMINE

Klassifitseeritud vastavalt määrusele (EÜ) nr 1272/2008 (CLP).

2.1. Aine või segu klassifitseerimine

Met. Corr. 1; H290, Võib söövitada metalle.

Skin Corr. 1A; H314, Põhjustab rasket nahasöövitust ja silmakahjustusi.

Eye Dam. 1; H318, Põhjustab raskeid silmakahjustusi.

2.2. Märgistuselemendid

Ohupiktogrammidest:



Tunnussõna:

Ettevaatust

Ohulause:

Võib söövitada metalle. (H290)

Põhjustab rasket nahasöövitust ja silmakahjustusi. (H314)

Hoiatuslaused:

▼ Üldised:

Ei kohaldu.

Ohtu ennetavad:

auru/udu ainet mitte sisse hingata. (P260)

Kanda kaitseprille/kaitsekindaid/kaitserõivastust. (P280)

▼ Reageerimise kohta:

NAHALE (või juustele) SATTUMISE KORRAL: kõik saastunud rõivad viivitamata seljast võtta. Loputada nahka veega või loputada duši all. (P303+P361+P353)

SILMA SATTUMISE KORRAL: loputada mitme minuti jooksul ettevaatlikult veega. Eemaldada kontaktläätsed, kui neid kasutatakse ja kui neid on kerge eemaldada. Loputada veel kord. (P305+P351+P338)

Võtta viivitamata ühendust MÜRGIKUSTEABEKESKUSE/arstiga. (P310)

Säilitamise kohta:

Hoida sööbekindla sisevooderdisega mahutis. (P406)

Kõrvaldamise kohta:

Sisu/mahuti kõrvaldada vastavalt kohalikele eeskirjadele (P501)

Sisaldab:

Kaaliumhüdroksiid;Kaaliumhüdroksiid

Naatriumhüdroksiid;Naatriumhüdroksiid

Muu märgistus:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Muud ohud

Muu:

See segu/toode ei sisalda aineid, mis vastavad kategooriasse PBT ja/või vPvB liigitamiseks nõutavatele tingimustele.

See toode ei sisalda aineid, mida käsitletakse vastavalt komisjoni delegeeritud määruses (EL) 2017/2100 või komisjoni määruses (EL) 2023/707 sätestatud kriteeriumidele endokriinseid häireid põhjustavate ainetena.

3. JAGU. KOOSTIS/TEAVE KOOSTISAINETE KOHTA

3.1. Ained

Ei rakendu. See toode on kokku segatud.

3.2. ▼ Segud

Toode/koostisosa	Identifitseerijad	% w/w	Klassifikatsioon	Märksed
Kaaliumhüdroksiid;Kaaliumhüdroksiid	CASi nr: 1310-58-3 EÜ nr: 215-181-3 REACH: Indeksir: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
Naatriumhüdroksiid;Naatriumhüdroksiid	CASi nr: 1310-73-2 EÜ nr: 215-185-5 REACH: 01-2119457892-27-XXXX Indeksir: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

H-lauset täielikku teksti vaadake jaotisest 16. Kokkupuute piirväärtused on loetletud jaotisest 8, kui need on kättesaadavad.

Muu info

-

4. JAGU. ESMAABIMEETMED

4.1. Esmaabimeetmete kirjeldus

Üldinfo:

Õnnetuse korral pöörduda arsti või erakorralise meditsiini osakonna pooleni - näidata toote etiketti või kemikaali ohutuskaarti. Selline lause lähtetekstis puudub.

Pöörduda arsti poole, kui kannatanu seisukorra osas on kahtlusi või kui sümptomid püsivad. Mitte kunagi ei tohi anda teadvuseta inimesele vett või muud vedelikku.

Sissehingamisel:

Hingamisraskuste või hingamisteede ärrituse korral: Viia kannatanu värske õhu kätte ja jääda tema juurde.

Kokkupuutel nahaga:

Loputage kokkupuutunud piirkonda veega pika aja jooksul - vähemalt 30 minutit. Võib osutada vajalikuks loputada mitme tunni jooksul. Kasutage mugavat veetemperatuuri (20-30 °C). Täiendavate nõuannete saamiseks järelkontrolli ja ravi kohta võtke ühendust mürgistusteabega/arstiga/haiglaga.

Võtta ära saastunud rõivad ja jalanõud. Nahaga kokkupuute korral pesta rohke vee ja seebiga. Kasutada võib nahapuhastusvahendeid. MITTE KASUTADA orgaanilisi lahusteid või vedeldajaid.

Nahaärrituse korral: pöörduda arsti poole.

Silma sattumisel:

SILMA SATTUMISE KORRAL: Loputada silmi rohke veega (20-30 °C), kuni valu lakkab või vähemalt 30 minuti jooksul. Võtta ära kontaktläätsed. Loputada kindlasti ülemiste ja alumiste silmalaugude alt. Pöörduda viivitamatult arsti poole ja jätkake loputamist.

Allaneelamisel:

Allaneelamisel pöörduda viivitamatult arsti poole. Kui isik on teadvusel, siis anda talle juua. MITTE PÜÜDA esile kutsuda oksendamist, juhul kui arst seda ei soovi. Aseta kannatanu pea asendisse, mis väldib okse tagasivalgumist suhu ja kurku. Vältida šokki, hoides kannatanut soojas ja rahus. Kui inimene lakkab hingamast, teha suust-suhu hingamist. Kui kannatanu on teadvuseta, panna ta looteasendisse. Kutsuda kiirabi.

Põletus:

Ei kohaldu.

4.2. Olulisemad akuutsed ja hilisemad sümptomid ning mõju

Kudesid kahjustav toime. Toode sisaldab nahka söövitavaid aineid. Auru või aerosoolide sissehingamisel võib esineda kopsukahjustusi, ärritust ja hingamisteede söövitust ja köha. Kokkupuutel naha või silmadega võib tekkida pöördumatuid toimeid.

4.3. Märges igasuguse vältimatu meditsiiniabi ja eriravi vajalikkuse kohta

Kokkupuute või kokkupuutekahtluse korral:

Pöörduda viivitamata arsti poole.

Info meditsiinitöötajatele

Võtta kaasa käesolev ohutuskaart või kemikaali etikett.

5. JAGU. TULEKUSTUTUSMEETMED

5.1. Tulekustutusvahendid

Ei kohaldu.

5.2. Aine või seguga seotud erilised ohud

Tulekahju korral tekib tihe suits. Pikemaajaline kokkupuude laguproduktidega võib ohustada tervist. Tulekahju mõjualas olevaid suletud mahuteid tuleb jahutada veega. Tule kustutamiseks kasutatud vett ei tohi lasta kanalisatsiooni ega ümbruse pinnavette.

Kui toodet mõjutab kõrge temperatuur, näiteks tulekahju puhul, moodustuvad ohtlikud lagusaadused. Need on:

Mõned metalloksiidid

5.3. Nõuanded tuletõrjujatele

Kokkupuute vältimiseks kanda suruõhuhingamisaparaati ja kaitseriietust. Otsekontakti korral pöörduda nõu saamiseks riikliku mürgistuskeskuse poole.

6. JAGU. MEETMED JUHUSLIKU SATTUMISE KORRAL KESKKONDA

6.1. Isikukaitsemeetmed, kaitsevahendid ja toimimine hädaolukorras

Vältida otsest kokkupuudet lekkinud ainega.

Tagage piisav ventilatsioon, eriti suletud kohtades.

Saastunud alad võivad olla libedad.

6.2. Keskkonnakaitse meetmed

Vältige järvedesse, vooluveekogudesse ja kanalisatsiooni pääsemist.

Hoidke volitamata isikud leketest eemal

6.3. Tõkestamis- ning puhastamismeetodid ja -vahendid

Sulgege ja koguge maha sattunud aine mittesüttiva, absorbeeriva materjaliga, nt liiv, muld, vermikuliit või kobediatomiit, ja pange utiliseerimismahutisse vastavalt kohalikele määrustele.

Võimalusel puhastada tavapäraste puhastusvahenditega. Vältida lahusteid.

6.4. Viited muudele jagudele

Jäätmekäitlust vt jaotisest 13 „Jäätmekäitlus“.

Kaitsemeetmeid vt jaotisest 8 „Kokkupuute ohjamine / isikukaitse“.

7. JAGU. KÄITLEMINE JA LADUSTAMINE

7.1. Ohutu käitlemise tagamiseks vajalikud ettevaatusabinõud

Vältida otsest kokkupuudet tootega.

Suitsetamine, söömine, joomine ja tubaka, toiduainete ja jookide hoidmine ruumis on keelatud.

Infot isikukaitsevahendite kohta vt jaotisest „Kokkupuute ohjamine / isikukaitse“.

7.2. Ohutu ladustamise tingimused, sealhulgas sobimatud ladustamistingimused

Avatud mahutid tuleb hoolikalt uuesti sulgeda ja neid lekete vältimiseks püstises asendis hoida. Hoida sööbekindla sisevooderdisega mahutis.

Pakendi sobivusega seotud nõuded:

Hoida üksnes originaalpakendis.

Säilitustingimused:

Kuiv, jahe, hea ventilatsiooniga

Kokkusobimatud materjalid:

Tugevad happed, tugevad alused, tugevalt oksüdeerivad ained ja tugevalt redutseerivad ained.

7.3. Eriksutus

Seda toodet tohib kasutada ainult jaotises 1.2 kirjeldatud eesmärkidel.

8. JAGU. KOKKUPUUTE OHJAMINE/ISIKUKAITSE

8.1. Kontrolliparameetrid

Kaaliumhüdroksiid;Kaaliumhüdroksiid

Piirnorm (8-tunnise) (mg/m³): 2

Naatriumhüdroksiid;Naatriumhüdroksiid

Piirnorm (8-tunnise) (mg/m³): 1

Lühiajaline kokkupuute piirmäär (15-minutilise) (mg/m³): 2 (P5)

Märkused:

P5 = Lühiajalise kokkupuute piirnorm, arvutatud 5-minutilise kokkupuuteajale

Vabariigi Valitsuse 20. märtsi 2001. a määrus nr 105 „Töökeskonna keemiliste ohutegurite piirnormid“.

DNEL

Kaaliumhüdroksiid;Kaaliumhüdroksiid

Period:	Suund:	DNEL:
Pikaajaline – kohalik toime – töötajad	Sissehingamine	1 mg/m ³
Pikaajaline – kohalik toime – üldine rahvastik	Sissehingamine	1 mg/m ³

Naatriumhüdroksiid;Naatriumhüdroksiid

Period:	Suund:	DNEL:
Pikaajaline – süsteemne toime – töötajad	Nahakaudne	<2 %
Pikaajaline – süsteemne toime – üldine rahvastik	Nahakaudne	2 %
Pikaajaline – kohalik toime – töötajad	Sissehingamine	1 mg/m ³
Pikaajaline – kohalik toime – üldine rahvastik	Sissehingamine	1 mg/m ³

PNEC

Naatriumhüdroksiid;Naatriumhüdroksiid

Suund:	Kokkupuute aeg:	PNEC:
Agevee setted		23 mg/kg TG
Agevesi		6.4 mg/L
Merevesi		0.64 mg/L
Pinnas		0.853 mg/kg TG

Reoveepuhasti		51 mg/L
Vahelduv vabastamine		3.1 mg/L
Vahelduv vabastamine (merevesi)		2.3 mg/kg TG

8.2. Kokkupuute ohjamine

Regulaarselt tuleb kontrollida vastavust kutsealase kokkupuute piirväärtustele.

Üldised soovitusel:

Suitsetamine, söömine, joomine ja tubaka, toiduainete ja jookide hoidmine ruumis on keelatud.

Kokkupuute stsenaariumid:

Selle toote jaoks ei ole koostatud kokkupuute stsenaariume.

Kokkupuute piirväärtused:

Professionaalsetel kasutajatel tuleb järgida töökeskkonda puudutavaid eeskirju kutsealase kokkupuute maksimaalsete piirväärtuste kohta. Töötervishoiu piirväärtusi vaadata eelnevast tekstist.

Insenertehnilised meetmed:

Aurude moodustumine peab olema minimaalne ja allpool praeguseid piirväärtusi (vt eespool). Kui tavaline õhuvool tööruumis ei ole piisav, on soovitatav paigaldada kohalik väljalaskesüsteem. Veenduge, et hädaolukorra silmapesu kohad ja -dušid oleksid selgelt märgistatud.

Tagage, et silmapesupunktid ja esmaabidušid oleks oleks kergesti kättesaadavad.

Rakendage toote kasutamise ajal standardseid ettevaatusabinõusid. Vältige aurude sissehingamist.

Hügieenimeetmed:

Toote kasutamise vaheaegadel ja töö lõppedes tuleb kõiki tootega kokku puutunud kehaosi põhjalikult pesta.

Pöörake erilist tähelepanu kätele, käsivartele ja näole.

Kokkupuute ohjamine keskkonnas:

Hoida tõkestavaid materjale töökoha läheduses. Võimalusel koguda mahaloksunud kemikaal töö käigus kokku.

Isiklikud kaitsemeetmed, nagu isikukaitsevahendid

Üldteave:

Kasutada ainult CE-märgistusega kaitsevahendeid.

Hingamisteede kaitse:

Tüüp	Klass	Värvus	Standardid	
Piisava ventilatsiooni korral ei ole hingamiskaitse vajalik				

Naha kaitse:

Soovitav	Tüüp/Kategooria	Standardid	
Kasutada tuleb spetsiaalseid tööriivaid	-	-	

Käte kaitse:

Tööolukord	Materjal	Minimaalne kihi paksus (mm)	Läbimisaeg (min.)	Standardid	
Pikaajalise kokkupuute või kõrgete kontsentratsioonide korral	Nitriilkummi	0.4	> 480	EN374-2, EN16523-1, EN388	

Tööolukord	Materjal	Minimaalne kihi paksus (mm)	Läbimisaeg (min.)	Standardid	
Lühiajalise kokkupuute või madalate kontsentratsioonide korral	Nitriilkummi	1,5	> 30	EN374-2, EN16523-1, EN388	

Silmade kaitse:

Tüüp	Standardid	
Kasutage külgsaitmetega kaitseprille.	EN166	

9. JAGU. FÜÜSIKALISED JA KEEMILISED OMADUSED

9.1. Teave üldiste füüsikaliste ja keemiliste omaduste kohta

Olek:

Vedelik

Värvus:

Kahvatu kollane

▼ *Lõhn/lõhnalävi (ppm):*

Õrn

pH:

13.5

Tihedus (g/cm³):

1,29 (20 °C)

Kinemaatiline viskoossus:

Andmed puuduvad.

Osakeste omadused:

Ei kohaldata vedelike suhtes.

Oleku muutused

Sulamis-/külmumispunkt (°C):

Andmed puuduvad.

Pehmenemispunkti/pehmenemistemperatuuri vahemiku (°C):

Ei kohaldata vedelike suhtes.

Keemispunkt (°C):

100

Aururõhk:

Andmed puuduvad.

Auru suhteline tihedus :

Andmed puuduvad.

Lagunemistemperatuur (°C):

Andmed puuduvad.

Teave tule- ja plahvatusohu kohta

Leekpunkt (°C):

Andmed puuduvad.

Süttivus (°C):

Andmed puuduvad.

Isesüttimistemperatuur (°C):

Andmed puuduvad.

Plahvatuspiir (% v/v):

Andmed puuduvad.

Lahustuvus

Lahustuvus vees:

Täiesti lahustuv

Jaotustegur n-oktanol/vesi (LogKow):

Andmed puuduvad.

Lahustuvus rasvas (g/L):

Andmed puuduvad.

9.2. Muu teave

Muud füüsikalised ja keemilised parameetrid:

Andmed puuduvad.

Oksüdeerivad omadused:

Andmed puuduvad.

10. JAGU. PÜSIVUS JA REAKTSIOONIVÕIME

10.1. Reaktsioonivõime

Andmed puuduvad.

10.2. Keemiline stabiilsus

Toode on stabiilne tingimustes, mida on kirjeldatud jaotises 7 „Käitlemine ja ladustamine“.

10.3. Ohtlike reaktsioonide võimalikkus

Keegi pole tuttav.

10.4. Tingimused, mida tuleb vältida

Keegi pole tuttav.

10.5. Kokkusobimatud materjalid

Tugevad happed, tugevad alused, tugevalt oksüdeerivad ained ja tugevalt redutseerivad ained.

10.6. Ohtlikud lagusaadused

Termiline lagunemine võib tekitada sööbivaid aineid.

11. JAGU. TEAVE TOKSILISUSE KOHTA

11.1. Teave ohuklasside kohta, nagu see on määratletud määruses (EÜ) nr 1272/2008

Akuutne mürgisus

Toode/koostisosa	Kaaliumhüdroksiid;Kaaliumhüdroksiid
Art:	Rott, isasja
Suund:	Suukaudne
Katse:	LD50
Tulemus:	333 - 388 mg/kg

Toode/koostisosa	Naatriumhüdroksiid;Naatriumhüdroksiid

Tulemus: 45.4 mg/L

Toode/koostisosa Naatriumhüdroksiid;Naatriumhüdroksiid
Art: Küülik
Katse: LD lo
Tulemus: 500 mg/kg

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Nahka söövitav/ärritav

Toode/koostisosa iT.33 laundry booster pro
Tulemus: Täheledatai kahjulikke toimeid (Tugevalt ärritav)

Toode/koostisosa Kaaliumhüdroksiid;Kaaliumhüdroksiid
Tulemus: Täheledatai kahjulikke toimeid (Söövitav)

Toode/koostisosa Naatriumhüdroksiid;Naatriumhüdroksiid
Tulemus: Täheledatai kahjulikke toimeid (Ärritav)

Põhjustab rasket nahasöövitust ja silmakahjustusi.

Rasket silmade kahjustust/ärritust põhjustav

Toode/koostisosa iT.33 laundry booster pro
Tulemus: Täheledatai kahjulikke toimeid (Põhjustab raskeid silmakahjustusi)

Toode/koostisosa Kaaliumhüdroksiid;Kaaliumhüdroksiid
Tulemus: Täheledatai kahjulikke toimeid (Tugevalt söövitav)

Toode/koostisosa Naatriumhüdroksiid;Naatriumhüdroksiid
Katsemeetod: OECD 405
Art: Küülik
Tulemus: Täheledatai kahjulikke toimeid (Söövitav)

Põhjustab raskeid silmakahjustusi.

Hingamiselundite sensibiliseerimine

Toode/koostisosa Kaaliumhüdroksiid;Kaaliumhüdroksiid
Tulemus: Kahjulikke toimeid ei täheldatud (mitte sensibiliseeriv)

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Naha sensibiliseerimine

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Mutageensus sugurakkudele

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Kantserogeensus

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Reproduktiivtoksilisus

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Sihtorgani suhtes toksilised: ühekordne kokkupuude

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Sihtorgani suhtes toksilised: korduv kokkupuude

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

Hingamiskahjustus

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

11.2. Teave muude ohtude kohta

Pikaajaline toime

Kudesid kahjustav toime. Toode sisaldab nahka söövitavaid aineid. Auru või aerosoolide sissehingamisel võib esineda kopsukahjustusi, ärritust ja hingamisteede söövitust ja köha. Kokkupuutel naha või silmadega võib tekkida pöördumatuid toimeid.

Endokriinseid häireid põhjustavad omadused

See segu/toode ei sisalda aineid, millel oleks hormonaalseid häireid põhjustavaid mõjusid tervisele.

Muu teave

Keegi pole tuttav.

12. JAGU. ÖKOLOOGILINE TEAVE

12.1. Toksilisus

Toode/koostisosa	iT.33 laundry booster pro
Art:	Andere waterorganismen, Leuciscus idus
Keskkonnaosa:	Vesi
Periood:	96 tunni
Katse:	LC50
Tulemus:	>100 mg/L

Toode/koostisosa	Naatriumhüdroksiid;Naatriumhüdroksiid
Art:	Bakterid, Pseudomonas putida
Katse:	EC0
Tulemus:	>100 mg/L

Toode/koostisosa	Naatriumhüdroksiid;Naatriumhüdroksiid
Art:	Vesikirp, Ceriodaphnia dubia
Periood:	48 tunni
Tulemus:	40.4 mg/L

Toode/koostisosa	Naatriumhüdroksiid;Naatriumhüdroksiid
Katsemeetod:	OECD 203
Art:	Kala, Oncorhynchus mykiss
Periood:	96 tunni
Katse:	LC50
Tulemus:	45.4 mg/L

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

12.2. Püsivus ja lagunduvus

Kättesaadavate andmete põhjal ei ole klassifitseerimiskriteeriumid täidetud.

12.3. Bioakumulatsioon

Toode/koostisosa	Naatriumhüdroksiid;Naatriumhüdroksiid
Järeldus:	Bioakumulatsiooni pole oodata

12.4. Liikuvus pinnases

Andmed puuduvad.

12.5. Püsivate, bioakumuleeruvate ja toksiliste ning väga püsivate ja väga bioakumuleeruvate omaduste hindamine

See segu/toode ei sisalda aineid, mis vastavad kategooriasse PBT ja/või vPvB liigitamiseks nõutavatele tingimustele.

12.6. Endokriinseid häireid põhjustavad omadused

See toode/segu ei sisalda aineid, millel oleks endokriinseid häireid põhjustavaid mõjusid keskkonnale.

12.7. Muud kahjulikud mõjud

Keegi pole tuttav.

13. JAGU. JÄÄTMEKÄITLUS

13.1. Jäätmetöötlusmeetodid

Toodet tuleb käidelda kui ohtlikke jäätmeid. (*)

HP 8 - Söövitav

Sisu/mahuti kõrvaldada tunnustatud jäätmekäitluskohas.

Komisjoni määrus (EL) nr 1357/2014, 18. detsember 2014, millega asendatakse Euroopa Parlamendi ja Nõukogu direktiivi 2008/98/EÜ (mis käsitleb jäätmeid ja millega tunnistatakse kehtetuks teatud direktiivid) III lisa.

EWC kood:

20 01 29*

Ohtlikke aineid sisaldavad pesuained

Saastunud pakendimaterjal

Saastunud pakendid tuleb hävitada samamoodi nagu toode ise.

14. JAGU. VEONÕUDED

	14.1 ÜRO	14.2 ÜRO veose tunnusnimetus	14.3 Transpordi ohuklass(id)	14.4 PG*	14.5. Env**	Muu info:
ADR	UN1719	SÖÖVITAV LEELISELINE VEDELIK, N.O.S. (Kaaliiumhüdrosiid;Kaaliiumhüdrosiid, Naatriumhüdrosiid;Naatriumhüdrosiid)	Klass: 8 Ohumärgised: 8 Klassifikatsioonikood: C5 	II	Ei	Piiratud kogused: 1 L Veokategooria: (E) Lisateabe saamiseks vt allpool.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klass: 8 Ohumärgised: 8 Klassifikatsioonikood: C5 	II	Ei	Piiratud kogused: 1 L EmS: F-A S-B Lisateabe saamiseks vt allpool.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klass: 8 Ohumärgised: 8 Klassifikatsioonikood: C5 	II	Ei	Lisateabe saamiseks vt allpool.

* Pakendigrupp

** Keskkonnaohud

Muu teave

See toode kuulub ohtlike kaupade transportimise määruste reguleerimisalasse.

ADR / Vt tabelit A, punkti 3.2.1 teabe saamiseks transpordiga seotud erisätete, nõuete ja hoiatuste kohta. Vt punkti 5.4.3 kirjalike juhiste saamiseks transpordi ajal toimunud juhtumite või õnnetustega seotud kahjude leevendamiseks.

IMDG / Vt punkti 3.2.1 teabe saamiseks transpordiga seotud erisätete, nõuete ja hoiatuste kohta.

IATA / Vt tabelit 4.2, teabe saamiseks transpordiga seotud erisätete, nõuete ja hoiatuste kohta.

14.6. Eriettevaatusabinõud kasutajatele

Ei kohaldu.

14.7. Mahtlasti merevedu kooskõlas Rahvusvahelise Mereorganisatsiooni dokumentidega

Andmed puuduvad.

15. JAGU. REGULEERIVAD ÕIGUSAKTID

15.1. Ainete ja segude suhtes kohaldatavad ohutus-, tervise- ja keskkonnavalased eeskirjad/õigusaktid

Piirangud kasutamisel:

Üksnes kutsealaseks kasutamiseks.

Alla 18-aastased ei tohi selle ainega kokku puutuda, vt Nõukogu direktiivi 94/33/EÜ 22. juunist 1994, noorte inimeste kaitsmisest töö juures.

Nõuded eriväljaõppele:

Erinõuded puuduvad.

SEVESO Ohukategooriad / nimetatud ohtlikud ained:

Ei kohaldu.

Muu teave:

Ei kohaldu.

Allikas:

Töökeskkonna ohutegurite ja tööde loetelu, mille puhul alaealise töötamine on keelatud, Vastu võetud 11.06.2009 nr 94.

Euroopa Parlamendi ja Nõukogu määrus (EÜ) nr 648/2004, 31. märts 2004, detergentide kohta.

Komisjoni määrus (EL) nr 1357/2014, 18. detsember 2014, millega asendatakse Euroopa Parlamendi ja Nõukogu direktiivi 2008/98/EÜ (mis käsitleb jäätmeid ja millega tunnistatakse kehtetuks teatud direktiivid) III lisa.

Euroopa Parlamendi ja Nõukogu määrus (EÜ) nr 1272/2008, 16. detsember 2008, mis käsitleb ainete ja segude klassifitseerimist, märgistamist ja pakendamist (CLP).

Euroopa Parlamendi ja nõukogu määrus (EÜ) nr 1907/2006, 18. detsember 2006, mis käsitleb kemikaalide registreerimist, hindamist, autoriseerimist ja piiramist (REACH).

15.2. Kemikaaliohutuse hindamine

Ei

16. JAGU. MUU TEAVE

Jaotises 3 esitatud H-lausetekst

H290, Võib söövitada metalle.

H302, Allaneelamisel kahjulik.

H314, Põhjustab rasket nahasöövitust ja silmakahjustusi.

H315, Põhjustab nahaärritust.

H318, Põhjustab raskeid silmakahjustusi.

H319, Põhjustab tugevat silmade ärritust.

Lühendid ja akronüümid

ADN = Ohtlike veoste rahvusvahelise siseveeteede Euroopa kokkulepe

ADR = Ohtlike veoste rahvusvahelise autoveo Euroopa kokkulepe Ägeda toksilisuse hinnang

BCF = Biokontsentratsiooni faktor

CAS = Chemical Abstracts' teenistus

CE = Conformité Européenne

CLP = Klassifitseerimise, märgistamise ja pakendamise määrus [EÜ määrus nr 1272/2008]

CSA = Kemikaalide ohutuse hindamine

CSR = Kemikaalide ohutuaruanne

DNEL = Tuletatud mittetoimiv tase
EJK = Euroopa jäätmekataloog
EUH-lause = CLP eriohulause
EuPCS = Euroopa toodete kategoriseerimise süsteem
GHS = Kemikaalide klassifitseerimise ja märgistamise globaalne harmoneeritud süsteem
GWP = Globaalse soojenemise potentsiaal
IATA = Rahvusvaheliste Õhuvadude Assotsiatsioon
IBC = hulgikauba vahemahuti
IMDG = Rahvusvaheline ohtlike kaupade mereveo koodeks/eeskiri
LogP o/w Oktanol/vesi jaotuskoeffitsiendi logaritm
LOÜ = Lenduvad orgaanilised ühendid
MARPOL 73/78 = 1973.a Rahvusvaheline konventsioon merereostuse vältimiseks laevadel muudetud 1978.a protokolliga. ("Marpol" - merereostus)
OECD = Majanduskoostöö ja Arengu Organisatsioon
PBT = Püsivad, bioakumuleeruvad ja mürgised Arvutuslik mittetoimiv sisaldus
RID = Ohtlike veoste rahvusvahelise raudteeveo kokkulepe
SCL = On konkreetse sisalduse piirnormiga.
SVHS = Väga ohtlikud ained
STOT-RE = Mürgistus siseelundi suhtes - korduv kokkupuude
STOT-SE = Mürgistus siseelundi suhtes - ühekordne kokkupuude
TWA = Ajas kaalutud keskmine
UVCB = Tundmatu või muutuva koostisega ained, kompleksed reaktsioonisaadused või bioloogilist päritolu materjalid.
ÜRO = Ühinenud Rahvaste Organisatsioon
vPvB = Väga püsivad ja väga bioakumuleeruvad

Muu teave

Segu klassifikatsioon terviseohtude osas vastab määruses (EÜ) nr 1272/2008 (CLP) sätestatud arvutusmeetoditele.

Ohutuskaardi on kinnitanud

Quality & Compliance

Muu

Muudatus (võrreldes viimase olulise muudatusega (kemikaali ohutuskaardi versiooni esimene number, vt jaotist 1) on tähistatud kolmnurgaga.

Sellel kemikaali ohutuskaardil sisalduv info kehtib ainult selle spetsiifilise toote kohta (nimetatud jaotises 1) ja ega pruugi tingimata kehtida teiste kemikaalide või toodete puhul.

Soovitav on anda see kemikaali ohutuskaart üle toote tegelikule kasutajale. Sellel kemikaali ohutuskaardil sisalduvat informatsiooni ei tohi kasutada toote spetsifikatsioonina.

Riik-keel: EE-et

FICHA DE DATOS DE SEGURIDAD

iT.33 laundry booster pro

SECCIÓN 1. IDENTIFICACIÓN DE LA SUSTANCIA O LA MEZCLA Y DE LA SOCIEDAD O LA EMPRESA

1.1. Identificador de producto

Nombre comercial:

iT.33 laundry booster pro

Identificador único de fórmula (IUF):

EMGV-AVQ8-YF2J-F4QE

1.2. Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

Usos pertinentes identificados de la sustancia o de la mezcla:

Agentes de lavado y limpieza (incluso a base de disolventes)

Reservado exclusivamente a usuarios profesionales.

Usos desaconsejados :

Ningunos conocidos.

1.3. Datos del proveedor de la ficha de datos de seguridad

Nombre y dirección de la empresa:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Correo electrónico:

info@hygeniq.com

Revisión:

14/8/2025

Versión FDS:

2.0

Fecha de la emisión anterior:

28/7/2025 (1.0)

1.4. Teléfono de emergencia

Servicio de Información Toxicológica

Teléfono: +34 91 562 04 20

Información en español (24h/365 días)

Consulte la sección 4 para obtener información sobre primeros auxilios.

SECCIÓN 2. IDENTIFICACIÓN DE LOS PELIGROS

Clasificado según el Reglamento (CE) Nro. 1272/2008 (CLP).

2.1. Clasificación de la sustancia o de la mezcla

Met. Corr. 1; H290, Puede ser corrosivo para los metales.

Skin Corr. 1A; H314, Provoca quemaduras graves en la piel y lesiones oculares graves.

Eye Dam. 1; H318, Provoca lesiones oculares graves.

2.2. Elementos de la etiqueta

Pictogramas de peligro:



Palabra de advertencia:

Peligro

Indicaciones de peligro:

Puede ser corrosivo para los metales. (H290)

Provoca quemaduras graves en la piel y lesiones oculares graves. (H314)

Consejos de prudencia:

▼ *Generalidades:*

No aplicable.

Prevención:

No respirar los vapores/la niebla. (P260)

Llevar gafas/guantes/prendas de protección. (P280)

▼ *Intervención:*

EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua o ducharse. (P303+P361+P353)

EN CASO DE CONTACTO CON LOS OJOS: Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado. (P305+P351+P338)

Llamar inmediatamente a un CENTRO DE TOXICOLOGÍA/médico. (P310)

Almacenamiento:

Almacenar en un recipiente con revestimiento interior resistente. (P406)

Eliminación:

Eliminar el contenido/el recipiente De conformidad con la normativa local (P501)

Identificación de las sustancias principalmente responsables de los riesgos graves para la salud:

hidróxido de potasio;potasa cáustica

hidróxido de sodio

Etiquetado adicional:

IUF: EMGV-AVQ8-YF2J-F4QE

2.3. Otros peligros

Advertencias adicionales:

No se considera que esta combinación/producto contenga sustancias que cumplan los criterios de clasificación como PBT y/o mPmB.

Este producto no contiene ninguna sustancia considerada disruptor endocrino de acuerdo con los criterios establecidos en el Reglamento Delegado (UE) 2017/2100 de la Comisión o el Reglamento (UE) 2023/707 de la Comisión.

SECCIÓN 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

3.1. Sustancias

No aplicable. Este producto es una mezcla.

3.2. ▼ Mezclas

Producto / ingrediente	Identificadores	% w/w	Clasificación	Notas
hidróxido de potasio;potasa cáustica	Nº CAS: 1310-58-3 Nº CE: 215-181-3 REACH: Nº de índice: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hidróxido de sodio	Nº CAS: 1310-73-2 Nº CE: 215-185-5 REACH: 01-2119457892-27-XXXX Nº de índice: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

La redacción completa de las frases H se encuentra en la sección 16. Los límites de las condiciones laborales correctas se mencionan en la sección 8, siempre y cuando sean accesibles.

Otra información

-

SECCIÓN 4. PRIMEROS AUXILIOS

4.1. Descripción de los primeros auxilios

General:

En caso de accidente: Póngase en contacto con el médico o vaya a emergencias. Llévese la etiqueta o esta hoja de datos de seguridad. El médico deberá ponerse en contacto con el Servicio de información Toxicológica, Teléfono: +34 91 562 04 20.

Si los síntomas son permanentes o si tiene alguna duda sobre la situación del accidentado, consulte a un médico. Nunca dé agua ni nada parecido a una persona inconsciente.

Inhalación:

En caso de dificultades respiratorias o irritación del tracto respiratorio: Lleve a la persona a un lugar en el que pueda respirar aire fresco y no la deje sin supervisión.

Contacto con la piel:

Enjuague el área expuesta con agua durante mucho tiempo, al menos 30 minutos. Puede ser necesario enjuagar durante varias horas. Use una temperatura de agua cómoda (20-30 °C). Comuníquese con Información sobre intoxicaciones/médico/hospital para obtener más consejos sobre el seguimiento y el tratamiento.

Retire enseguida la ropa y calzado contaminado. Lave bien con agua y jabón la piel que haya estado en contacto con el material. Puede utilizar productos de higiene cutánea. NO utilice disolventes ni diluyentes.

En caso de irritación cutánea: Consultar a un médico.

Contacto con los ojos:

En caso de contacto con los ojos: Y enjuáguese los ojos con agua abundante (20-30 °C) hasta que la irritación desaparezca, y al menos durante 30 minutos. Quítese las lentes de contacto. Asegúrese de enjuagar bien los párpados. A continuación consulte a un médico. Busque asistencia médica inmediatamente y continúe enjuagando durante el transporte.

Ingestión:

En caso de ingestión avise inmediatamente a un médico. Dé agua al accidentado si recupera la consciencia. No intente provocar el vómito a no ser que el médico lo recomiende. Coloque la cabeza baja de modo que si vomita, no se trague el vómito. Para prevenir shocks mantenga al accidentado caliente y tranquilo. Si deja de respirar, hágale la respiración artificial. Si pierde la consciencia coloque al accidentado en posición lateral de seguridad. Llame a una ambulancia.

Quemadura:

No aplicable.

4.2. Principales síntomas y efectos, agudos y retardados

Efectos sobre los tejidos: El producto contiene sustancias corrosivas. Si se inhalan vapores o aerosoles puede provocar daños a los pulmones e irritación y escozor en el sistema respiratorio, así como tos. La sustancia corrosiva provoca daños irreversibles en los ojos y daña la piel.

4.3. Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente

EN CASO DE exposición manifiesta o presunta:
Consultar a un médico inmediatamente.

Explicación para el médico

Lleve esta hoja de datos de seguridad o la etiqueta del material.

SECCIÓN 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

5.1. Medios de extinción

No aplicable.

5.2. Peligros específicos derivados de la sustancia o la mezcla

En caso de incendio se genera un humo denso. La exposición a productos en descomposición puede representar un peligro para la salud. Los contenedores cerrados expuestos al fuego deben enfriarse con agua. No deje que el agua utilizada para apagar el fuego se vierta en la alcantarillado ni cursos de agua.

Si el producto queda expuesto a altas temperaturas, por ejemplo en caso de incendio, pueden generarse productos en descomposición peligrosos. En concreto:

Algunos óxidos metálicos

5.3. Recomendaciones para el personal de lucha contra incendios

Indumentaria normal de extinción y protección respiratoria total. En caso de contacto directo con la sustancia química el jefe de equipo deberá ponerse en contacto con el Servicio de Información Toxicológica, Teléfono: +34 91 562 04 20 para recibir instrucciones.

SECCIÓN 6. MEDIDAS EN CASO DE VERTIDO ACCIDENTAL

6.1. Precauciones personales, equipo de protección y procedimientos de emergencia

Evite el contacto directo con el producto vertido.

Asegure una ventilación adecuada, especialmente en áreas confinadas.

Las áreas contaminadas pueden ser resbaladizas.

6.2. Precauciones relativas al medio ambiente

Evite los vertidos en lagos, ríos, alcantarillas y demás.

Mantenga a las personas no autorizadas alejadas del derrame.

6.3. Métodos y material de contención y de limpieza

Contenga y recoja los derrames con material absorbente no combustible, por ejemplo: arena, tierra, vermiculita o tierra de diatomeas y colocar en un recipiente para su eliminación de acuerdo con las normas locales.

Siempre que sea posible, efectúe la limpieza con detergentes. Evite utilizar disolventes.

6.4. Referencia a otras secciones

Consulte la sección 13 "Consideraciones relativas a la eliminación" sobre el manejo de desechos.

Consulte la sección 8 "Controles de exposición/protección individual" para conocer las disposiciones de seguridad.

SECCIÓN 7. MANIPULACIÓN Y ALMACENAMIENTO

7.1. Precauciones para una manipulación segura

Evite el contacto directo con el producto.

No está permitido fumar, comer ni beber en el lugar de trabajo.

Consulte la sección "Controles de exposición/protección individual" para conocer las disposiciones de seguridad personal.

7.2. Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

Los envases abiertos deben cerrarse perfectamente con cuidado y mantenerse en posición vertical para evitar derrames.

Almacenar en un recipiente con revestimiento interior resistente.

Compatibilidades de embalaje:

Conservar únicamente en el embalaje original.

Condiciones de almacenaje:

Conservar en lugar fresco, seco y bien ventilado

Materiales incompatibles:

Ácidos fuertes, alcalinos fuertes, oxidantes fuertes y agentes reductores fuertes.

7.3. Usos específicos finales

Este producto sólo debe utilizarse para los fines descritos en la sección 1.2.

SECCIÓN 8. CONTROLES DE EXPOSICIÓN/PROTECCIÓN INDIVIDUAL

8.1. Parámetros de control

hidróxido de potasio;potasa cáustica

Valor límite ambiental-exposición de corta duración (15 minutos) (VLA-EC) (mg/m³): 2

hidróxido de sodio

Valor límite ambiental-exposición de corta duración (15 minutos) (VLA-EC) (mg/m³): 2

Límites de exposición profesional para agentes químicos en España. 2024

DNEL

hidróxido de potasio;potasa cáustica

Duración:	Vía de exposición:	DNEL:
Largo plazo - efectos locales- trabajadores	Inhalación	1 mg/m ³
Largo plazo- efectos locales- población en general	Inhalación	1 mg/m ³

hidróxido de sodio

Duración:	Vía de exposición:	DNEL:
Largo plazo - efectos sistémicos- trabajadores	Dérmico	<2 %
Largo plazo -efectos sistémicos- población general	Dérmico	2 %
Largo plazo - efectos locales- trabajadores	Inhalación	1 mg/m ³
Largo plazo- efectos locales- población en general	Inhalación	1 mg/m ³

PNEC

hidróxido de sodio

Vía de exposición:	Tiempo de exposición:	PNEC:
Agua dulce		6.4 mg/L
Agua marina		0.64 mg/L
Depuradora de aguas residuales		51 mg/L
Liberación intermitente		3.1 mg/L
Liberación intermitente (agua marina)		2.3 mg/kg TG
Sedimento de agua dulce		23 mg/kg TG
Tierra		0.853 mg/kg TG

8.2. Controles de la exposición

Compruebe regularmente que no se superan los valores límite indicados.

Medidas de precaución generales:

No está permitido fumar, comer ni beber en el lugar de trabajo.

Escenarios de exposición:

No hay escenarios de exposición implementados para este producto.

Límites de exposición:

Los usuarios profesionales quedan cubiertos a las normas de la legislación medioambiental relativa a máximas concentraciones de exposición. Consulte los límites laborales a arriba.

Iniciativa técnica:

La formación de vapor se debe mantener al mínimo y por debajo de los valores del límite de corriente (ver arriba). Se recomienda instalar un sistema de extracción local si el flujo de aire normal en la sala de trabajo no es suficiente. Asegúrese de que los limpiadores de ojos y las duchas de emergencia estén claramente indicadas. Asegúrese de que las estaciones de lavado de ojos y las duchas de seguridad estén ubicadas en un lugar de fácil acceso. Tome precauciones estándar durante el uso de este producto. Evite la inhalación de vapores.

Disposiciones higiénicas:

En cada pausa del uso del producto y al finalizar el trabajo limpie las zonas del cuerpo expuestas. Preste especial atención a las manos, los antebrazos y la cara.

Disposiciones para limitar la exposición del entorno:

Asegúrese de disponer de medios de contención en las inmediaciones al trabajar con el producto. Si es posible, utilice bandejas de rebose durante el trabajo.

Medidas de protección individual, tales como equipos de protección personal

General:

Solamente utilizar equipos de protección con la marca CE.

Conducto respiratorio:

Tipo	Clase	Color	Normas	
No se necesita protección respiratoria en caso de ventilación adecuada.				

Piel y cuerpo:

Recomendado	Tipo/Categoría	Normas	
Debería utilizarse ropa de trabajo específica.	-	-	

Manos:

La situación de trabajo	Material	Espesura mínima de capa (mm)	Tiempo de penetración (min.)	Normas	
En caso de exposición prolongada o de altas concentraciones	Caucho de nitrilo	0,4	> 480	EN374-2, EN16523-1, EN388	
En caso de exposición por breve tiempo o a bajas concentraciones	Caucho de nitrilo	1,5	> 30	EN374-2, EN16523-1, EN388	

Ojos:

Tipo	Normas	
Use gafas de seguridad con protección lateral.	EN166	

SECCIÓN 9. PROPIEDADES FÍSICAS Y QUÍMICAS

9.1. Información sobre propiedades físicas y químicas básicas

Condición física:

Líquido

Color:

Amarillo claro

▼ *Olor / Umbral olfativo (ppm):*

Suave

pH:

13,5

Densidad (g/cm³):

1,29 (20 °C)

Viscosidad cinemática:

No se dispone de datos.

Características de las partículas:

No se aplica a los líquidos.

Cambio de estado y vapores

Punto de fusión/punto de congelación (°C):

No se dispone de datos.

El punto o intervalo/reblandecimiento (°C):

No se aplica a los líquidos.

Punto de ebullición (°C):

100

Presión del vapor:

No se dispone de datos.

Densidad de vapor relativa:

No se dispone de datos.

Temperatura de descomposición (°C):

No se dispone de datos.

Datos de riesgo de incendio y explosión

Punto de ignición (°C):

No se dispone de datos.

Inflamabilidad (°C):

No se dispone de datos.

Temperatura de auto-inflamación (°C):

No se dispone de datos.

Límites de explosión (% v/v):

No se dispone de datos.

Solubilidad

Solubilidad en agua:

Completamente soluble

coeficiente n-octanol/agua (LogKow):

No se dispone de datos.

Solubilidad en grasa (g/L):

No se dispone de datos.

9.2. Otros datos

Otros parámetros físicos y químicos:

No se dispone de datos.

Propiedades oxidantes:

No se dispone de datos.

SECCIÓN 10. ESTABILIDAD Y REACTIVIDAD

10.1. Reactividad

No se dispone de datos.

10.2. Estabilidad química

El producto es estable bajo las condiciones indicadas en la sección 7 "Manipulación y almacenamiento".

10.3. Posibilidad de reacciones peligrosas

Ningunos conocidos.

10.4. Condiciones que deben evitarse

Ningunos conocidos.

10.5. Materiales incompatibles

Ácidos fuertes, alcalinos fuertes, oxidantes fuertes y agentes reductores fuertes.

10.6. Productos de descomposición peligrosos

La descomposición térmica puede producir vapores corrosivos.

SECCIÓN 11. INFORMACIÓN TOXICOLÓGICA

11.1. Información sobre las clases de peligro definidas en el Reglamento (CE) n.º 1272/2008

Toxicidad aguda

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Especies:	Rata, macho
Vía de exposición:	Oral
Prueba:	DL50

En cumplimiento del Reglamento (CE) nº 1907/2006 (REACH), Anexo II, modificado por el Reglamento (UE) nº 2020/878

Resultado:	333 - 388 mg/kg

Producto / ingrediente	hidróxido de sodio
Resultado:	45.4 mg/L

Producto / ingrediente	hidróxido de sodio
Especies:	Conejo
Prueba:	LD lo
Resultado:	500 mg/kg

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Corrosión o irritación cutáneas

Producto / ingrediente	iT.33 laundry booster pro
Resultado:	Se observan efectos adversos (Altamente irritante)

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Resultado:	Se observan efectos adversos (Corrosivo)

Producto / ingrediente	hidróxido de sodio
Resultado:	Se observan efectos adversos (Irritante)

Provoca quemaduras graves en la piel y lesiones oculares graves.

Lesiones o irritación ocular graves

Producto / ingrediente	iT.33 laundry booster pro
Resultado:	Se observan efectos adversos (Provoca lesiones oculares graves)

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Resultado:	Se observan efectos adversos (Altamente corrosivo)

Producto / ingrediente	hidróxido de sodio
Método de ensayo:	OCDE 405
Especies:	Conejo
Resultado:	Se observan efectos adversos (Corrosivo)

Provoca lesiones oculares graves.

Sensibilización respiratoria

Producto / ingrediente	hidróxido de potasio;potasa cáustica
Resultado:	No se observan efectos adversos (no sensibilizantes)

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Sensibilización cutánea

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Mutagenicidad en células germinales

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Carcinogenicidad

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad para la reproducción

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición única

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Toxicidad específica en determinados órganos (STOT) – exposición repetida

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

Peligro de aspiración

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

11.2. Información sobre otros peligros

Efectos a largo plazo

Efectos sobre los tejidos: El producto contiene sustancias corrosivas. Si se inhalan vapores o aerosoles puede provocar daños a los pulmones e irritación y escozor en el sistema respiratorio, así como tos. La sustancia corrosiva provoca daños irreversibles en los ojos y daña la piel.

Propiedades de alteración endocrina

Esta mezcla/este producto no contiene ninguna sustancia que se considere que tenga efectos disruptores sobre el sistema endocrino en relación con la salud.

Otros datos

Ningunos conocidos.

SECCIÓN 12. INFORMACIÓN ECOLÓGICA

12.1. Toxicidad

Producto / ingrediente	iT.33 laundry booster pro
Especies:	Andere waterorganismen, Leuciscus idus
Compartimento medioambiental:	Agua
Duración:	96 horas
Prueba:	CL50
Resultado:	>100 mg/L

Producto / ingrediente	hidróxido de sodio
Especies:	Bacterias, Pseudomonas putida
Prueba:	CE0
Resultado:	>100 mg/L

Producto / ingrediente	hidróxido de sodio
Especies:	Daphnia, Ceriodaphnia dubia
Duración:	48 horas
Resultado:	40.4 mg/L

Producto / ingrediente	hidróxido de sodio
Método de ensayo:	OCDE 203
Especies:	Pez, Oncorhynchus mykiss
Duración:	96 horas
Prueba:	CL50
Resultado:	45.4 mg/L

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

12.2. Persistencia y degradabilidad

A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

12.3. Potencial de bioacumulación

Producto / ingrediente	hidróxido de sodio
Conclusión:	No se espera bioacumulación

12.4. Movilidad en el suelo

No se dispone de datos.

12.5. Resultados de la valoración PBT y mPmB

No se considera que esta combinación/producto contenga sustancias que cumplan los criterios de clasificación como PBT y/o mPmB.

12.6. Propiedades de alteración endocrina

Esta mezcla/este producto no contiene ninguna sustancia que se considere que tenga efectos disruptores sobre el sistema endocrino en relación con el medio ambiente.

12.7. Otros efectos adversos

Ningunos conocidos.

SECCIÓN 13. CONSIDERACIONES RELATIVAS A LA ELIMINACIÓN

13.1. Métodos para el tratamiento de residuos

El producto está bajo las normas de residuos peligrosos. (*)

HP 8 - Corrosivo

Eliminar el contenido/el recipiente en un punto de recogida de residuos especiales.

Reglamento (UE) nº 1357/2014 de la Comisión de 18 de diciembre de 2014 sobre los residuos.

Ley 22/2011, de 28 de julio, de Residuos y suelos contaminados.

Ley 11/1997, de 24 de abril, de envases y residuos de envases y Reglamento que la desarrolla, R.D. 782/1998, de 30 de abril.

Orden MAM 304/2002, de 8 de febrero, por la que se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

Código de residuos:

20 01 29* Detergentes que contienen sustancias peligrosas

Contenedor contaminado

Los embalajes con restos del producto deben eliminarse siguiendo el mismo procedimiento que el resto del producto.

SECCIÓN 14. INFORMACIÓN RELATIVA AL TRANSPORTE

	14.1 ONU	14.2 Designación oficial de transporte	14.3 Clase(s) de peligro	14.4 PG*	14.5. Env**	Otra información:
ADR	UN1719	LÍQUIDO ALCALINO CAÚSTICO N.E.P. (hidróxido de potasio; potasa cáustica, hidróxido de sodio)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Cantidades limitadas: 1 L Código de restricción en túneles: (E) Véase a continuación para obtener información adicional
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash, sodium hydroxide; caustic soda)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Cantidades limitadas: 1 L EmS: F-A S-B Véase a continuación

	14.1 ONU	14.2 Designación oficial de transporte	14.3 Clase(s) de peligro	14.4 PG*	14.5. Env**	Otra informació n:
						ón para obtener informació n adicional
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Clase: 8 Etiquetas: 8 Código de clasificación: C5 	II	No	Véase a continuaci ón para obtener informació n adicional

* Grupo de embalaje

** Peligros para el medio ambiente

Otros

El producto está cubierto por las convenciones relativas a productos peligrosos.

ADR / Consultar la tabla A, sección 3.2.1, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte. Consultar la sección 5.4.3 para obtener instrucciones por escrito sobre la mitigación de daños en relación con incidentes o accidentes durante el transporte.

IMGD / Consultar la sección 3.2.1, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte.

IATA / Consultar la tabla 4.2, para más información sobre disposiciones, requisitos o advertencias especiales en relación con el transporte.

14.6. Precauciones particulares para los usuarios

No aplicable.

14.7. Transporte marítimo a granel con arreglo a los instrumentos de la OMI

No se dispone de datos.

SECCIÓN 15. INFORMACIÓN REGLAMENTARIA

15.1. Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla

Limitaciones de uso:

Reservado exclusivamente a usuarios profesionales.

El producto no puede ser utilizado profesionalmente por menores de 18 años.

Requisitos de formación específica:

No tiene requisitos específicos.

SEVESO - Categorías de peligro / Sustancias peligrosas nominadas:

No aplicable.

Otros:

No aplicable.

Fuentes:

Ley 31/1995, de 8 de noviembre, de prevención de Riesgos Laborales.

Reglamento (CE) nº 648/2004 del Parlamento Europeo y del Consejo de 31 de marzo de 2004, sobre detergentes.

Reglamento (UE) nº 1357/2014 de la Comisión de 18 de diciembre de 2014 sobre los residuos.

Reglamento (CE) nº 1272/2008 del Parlamento Europeo y del Consejo de 16 de diciembre de 2008 sobre clasificación, etiquetado y envasado de sustancias y mezclas (CLP).

Reglamento (CE) nº 1907/2006 del Parlamento Europeo y del Consejo, de 18 de diciembre de 2006, relativo al registro, la evaluación, la autorización y la restricción de las sustancias y preparados químicos (REACH).

15.2. Evaluación de la seguridad química

No

SECCIÓN 16. OTRA INFORMACIÓN

Redacción completa de las frases H descrita en la sección 3

H290, Puede ser corrosivo para los metales.

H302, Nocivo en caso de ingestión.

H314, Provoca quemaduras graves en la piel y lesiones oculares graves.

H315, Provoca irritación cutánea.

H318, Provoca lesiones oculares graves.

H319, Provoca irritación ocular grave.

Abreviaturas y acrónimos

ADN = Acuerdo Europeo Relativo al Transporte Internacional de Mercancías Peligrosas por Vía Navegable Interior

ADR = Acuerdo Europeo sobre el Transporte Internacional de Mercancías Peligrosas por Carretera

ETA = Estimación de Toxicidad Aguda

CAS = Servicio de Resúmenes Químicos

CE = Conformité Européenne (De Conformidad Europea)

CLP = Reglamento sobre Clasificación, Etiquetado y Envasado [Reglamento (CE) No 1272/2008]

CLP CER = Catálogo Europeo de Residuos

COV = Compuestos Orgánicos Volátiles

DMEL = Nivel de Efecto Mínimo Derivado

DNEL = Nivel sin efecto derivado

EINECS = Inventario Europeo de Sustancias Químicas Existentes Comercializadas

EE = Escenarios de Exposición Indicación

EUH = Indicación de Peligro específica del

EuPCS = Sistema Europeo de Clasificación de Productos

FBC = Factor de Bioconcentración

IARC = Agência Internacional de Pesquisa em Câncer

IATA = Asociación de Transporte Aéreo Internacional

IBC = Contenedor Intermedio para Productos a Granel

IMDG = Código Marítimo Internacional de Mercancías Peligrosas

ISQ = Informe sobre la Seguridad Química

Log Kow = logaritmo del coeficiente de reparto octanol/agua

MARPOL = Convenio Internacional para Prevenir la Contaminación por los Buques, 1973 con el Protocolo de 1978. ("Marpol" = polución marina)

mPmB = Muy Persistente y Muy Bioacumulativa

OCDE = Organización de Cooperación y Desarrollo Económico

ONU = Organización de las Naciones Unidas

PBT = Persistente, Bioacumulativo y Tóxico

PCG = Potencial de calentamiento global

PNEC = Concentración Prevista Sin Efecto

RID = Reglamento de Transporte Internacional de Mercancías Peligrosas por Ferrocarril

RRN = Número de Registro REACH

SCL = Límite de concentración específico (LCE).

SEP = Sustancia Extremadamente Preocupante

SGA = Sistema Globalmente Armonizado de Clasificación y Etiquetado de Productos Químicos

STOT-RE = Toxicidad Específica en Determinados Órganos - Exposiciones Repetidas

STOT-SE = Toxicidad Específica en Determinados Órganos - Exposición Única

UVCB = Significa sustancias de composición desconocida o variable, productos de reacción complejos y materiales

biológicos

VLA-ED = Promedio ponderado por el tiempo

VSQ = Valoración de la Seguridad Química

Otros

La clasificación de la mezcla en relación a los riesgos para la salud se conforme a los métodos de cálculo que se indican en el Reglamento (CE) nº 1272/2008 (CLP).

Ficha de datos de seguridad es validada por

Quality & Compliance

Otros

Las modificaciones en relación a la presente revisión (primera cifra en la Versión FDS, véase sección 1) de esta hoja de datos de seguridad se marcan con un triángulo.

La información que contiene esta hoja de la ficha de datos de seguridad se aplica únicamente al producto indicado en la sección 1 y no tiene por qué ser aplicable si se utiliza con otros productos.

Se recomienda entregar esta hoja de la ficha de datos de seguridad al usuario del producto. La información indicada no se puede utilizar como ficha técnica del producto.

País-idioma: ES-es

KÄYTTÖTURVALLISUUSTIEDOTE

iT.33 laundry booster pro

KOHTA 1: AINEEN TAI SEOKSEN JA YHTIÖN TAI YRITYKSEN TUNNISTETIEDOT

1.1. Tuotetunniste

Kauppanimi:

iT.33 laundry booster pro

Ainutkertainen koostumustunniste (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Aineen tai seoksen merkitykselliset tunnistetut käytöt ja käytöt, joita ei suositella

Aineen tai seoksen merkitykselliset tunnistetut käyttökohteet:

Pesu- ja puhdistusaineet (myös liuotinpohjaiset)

Vain ammattikäyttöön.

Käytöt, joita ei suositella:

Ei tunneta.

1.3. Käyttöturvallisuustiedotteen toimittajan tiedot

Yrityksen nimi ja osoite:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Sähköpostiosoite:

info@hygeniq.com

Tarkistettu:

14.8.2025

KTT:n versio:

2.0

Edellinen päiväys:

28.7.2025 (1.0)

1.4. Hätäpuhelinnumero

HUS Myrkytystietokeskus 24 h/vrk, puh. 0800 147 111.

Myrkytystietokeskus/HUS, Tukholmankatu 17, 00029 HUS (Helsinki)

Ks. ensiaputoimenpiteet kohta 4.

KOHTA 2: VAARAN YKSILOINTI

Luokitus asetuksen (EY) nro 1272/2008 (CLP) mukaan.

2.1. Aineen tai seoksen luokitus

Met. Corr. 1; H290, Voi syövyttää metalleja.
Skin Corr. 1A; H314, Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa.
Eye Dam. 1; H318, Vaurioittaa vakavasti silmiä.

2.2. Merkinnät

Varoitusmerkit:



Huomiosana:

Vaara

Vaaralausekkeet:

Voi syövyttää metalleja. (H290)
Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa. (H314)

Turvalausekkeet:

▼ Yleiset:

Ei sovellettavissa.

Ennaltaehkäisy:

Älä hengitä höyryä/sumua. (P260)
Käytä silmiensuojainta/suojakäsineitä/suojavaatetusta. (P280)

▼ Pelastustoimenpiteet:

JOS KEMIKAALIA JOUTUU I HOLLE (tai hiuksiin): Riisu saastunut vaatetus välittömästi. Huuhdo iho vedellä tai suihkuta. (P303+P361+P353)
JOS KEMIKAALIA JOUTUU SILMIIN: Huuhdo huolellisesti vedellä usean minuutin ajan. Poista mahdolliset piilolinssit, jos sen voi tehdä helposti. Jatka huuhtomista. (P305+P351+P338)
Ota välittömästi yhteys MYRKYTYSTIETOKESKUKSEEN/lääkäriin. (P310)

Varastointi:

Varastoi säiliössä, jossa on kestävä sisävuoraus. (P406)

Jätteiden käsittely:

Hävitä sisältö/pakkaus paikallisten määräysten mukaisesti (P501)

Vaaralliset aineet:

kaliumhydroksidi;kalilipeä
Natriumhydroksidi

Täydentävät tiedot:

UFI-tunniste: EMGV-AVQ8-YF2J-F4QE

2.3. Muut vaarat

Muuta:

Tämä seos/tuote ei sisällä aineita, jotka täyttäisivät PBT- ja/tai vPvB-aineiksi luokiteltavien aineiden kriteerit. Tuote ei sisällä aineita, joilla on tunnistettu olevan hormonitoimintaa häiritseviä ominaisuuksia komission delegoidussa asetuksessa (EU) 2017/2100 tai komission asetuksessa (EU) 2023/707 vahvistettujen kriteerien mukaisesti.

KOHTA 3: KOOSTUMUS JA TIEDOT AINEOSISTA

3.1. Aineet

Ei sovellettavissa. Tämä tuote on seos.

3.2. ▼ Seokset

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

Tuote/aineosa	Tunnisteet	Pitoisuus	Luokitus	Huomautukset
kaliumhydroksidi;kalilipeä	CAS: 1310-58-3 EY: 215-181-3 REACH-rek.nro.: Indeksinro.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
Natriumhydroksidi	CAS: 1310-73-2 EY: 215-185-5 REACH-rek.nro.: 01-2119457892-27-XXXX Indeksinro.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

H-lausekkeet annetaan täydessä sanamuodossaan kohdassa 16. Työhygieeniset raja-arvot annetaan kohdassa 8, mikäli ne ovat saatavilla.

Muut tiedot

-

KOHTA 4: ENSIAPUTOIMENPITEET

4.1. Ensiaputoimenpiteiden kuvaus

Yleistä:

Onnettomuustilanne: Ota yhteys lääkäriin tai ensiapuun - ota mukaan etiketti tai tämä käyttöturvallisuustiedote. Jos oireet jatkuvat tai loukkaantuneen tilasta ei ole varmuutta, hakeudu lääkärin hoitoon. Älä koskaan anna tajuttomalle vettä tai muuta juotavaa.

Hengitettynä:

Hengitysvaikeuksien tai hengitystieärsytyksen ilmetessä: Siirrä henkilö raittiiseen ilmaan ja tarkkaile hänen vointiaan.

Kosketus ihoon:

Huuhtelee altistunutta aluetta vedellä kauan, vähintään 30 minuuttia. Huuhtelua on ehkä jatkettava monen tunnin ajan. Käytä miellyttävän lämpöistä vettä (20-30 °C). Ota yhteyttä myrkytystietokeskukseen/lääkäriin/sairaalaan saadaksesi lisätietoja seurannasta ja hoidosta.

Riisu saastuneet vaatteet ja kengät välittömästi. Pese altistunut iho huolellisesti vedellä ja saippualla. Iholle tarkoitettua pesuainetta voidaan käyttää. ÄLÄ KÄYTÄ liuottimia tai ohentimia.

Jos ilmenee ihoärsytystä: Hakeudu lääkäriin.

Kosketus silmiin:

JOS KEMIKAALIA JOUTUU SILMIIN: Huuhtelee silmiä runsaalla vedellä (20 - 30 °C) vähintään 30 minuuttia ja jatka kunnes ärsytys lakkaa. Poista mahdolliset piilolinssit. Huolehdi, että huuhtot sekä ylä- että alaluomien alta. Hakeudu heti lääkärin hoitoon ja jatka huuhtelua kuljetuksen aikana.

Nieltyinä:

Jos ainetta on nieltä, ota heti yhteys lääkäriin. Jos henkilö on tajuissaan, juota hänelle vettä. ÄLÄ OKSENNUTA, ellei lääkäri suosittele sitä. Pidä päästä alhaalla, ettei mahdollinen oksennus valu takaisin suuhun tai kurkkuun. Ehkäise shokkia pitämällä loukkaantunut lämpimänä ja rauhallisena. Anna tekohengitystä, jos hengitys lakkaa. Jos loukkaantunut on tajuton, aseta hänet kylkiasentoon. Kutsu ambulanssi.

Palovamma:

Ei sovellettavissa.

4.2. Tärkeimmät oireet ja vaikutukset, sekä välittömät että viivästyneet

Kudoksille tuhoisat vaikutukset: Tuote sisältää syövyttäviä aineita. Höyryn ja aerosolien sisäänhengittäminen voi vaurioittaa keuhkoja ja aiheuttaa ärsytystä ja kipua hengityselimissä sekä yskää. Syövyttävät aineet voivat aiheuttaa peruuttamattomia vahinkoja silmissä. Syövyttää ihoa.

4.3. Mahdollisesti tarvittavaa välitöntä lääketieteellistä apua ja erityishoitoa koskevat ohjeet

Altistumisen tapahduttua tai jos epäillään altistumista:

Hakeudu välittömästi lääkäriin.

Tietoja lääkärille

Ota mukaan tämä käyttöturvallisuustiedote tai tuotteen etiketti.

KOHTA 5: PALONTORJUNTATOIMENPITEET

5.1. Sammutusaineet

Ei sovellettavissa.

5.2. Aineesta tai seoksesta johtuvat erityiset vaarat

Tulipalo muodostaa paksua savua. Altistuminen hajoamistuotteille voi aiheuttaa vaaran terveydelle. Tulelle altistuneet suljetut säiliöt jäähdytetään vedellä. Sammutusvesi ei saa valua viemäriverkostoon eikä vesistöön.

Jos tuote altistuu korkeille lämpötiloille esim. tulipalon yhteydessä, se voi muodostaa vaarallisia hajoamistuotteita.

Niitä ovat:

Jotkin metallioksidit

5.3. Palontorjuntaa koskevat ohjeet

Normaalit palontorjuntavarusteet ja ulkoilmasta riippumaton hengityksensuojaus. Altistumistilanteissa ota yhteyttä myrkytystietokeskukseen.

KOHTA 6: TOIMENPITEET ONNETTOMUUSPÄÄSTÖISSÄ

6.1. Varotoimenpiteet, henkilönsuojaimet ja menettely hätätilanteessa

Vältä suoraa kosketusta roiskuneeseen kemikaaliin.

Huolehdi asianmukaisesta ilmastoinnista erityisesti ahtaissa tiloissa.

Saastuneet alueet voivat olla liukkaita

6.2. Ympäristöön kohdistuvat varotoimet

Vältä päästöjä järviin, jokiin, viemäriverkostoon jne.

Pidä ulkopuoliset henkilöt poissa vuodon läheltä

6.3. Suojarakenteita ja puhdistusta koskevat menetelmät ja -välineet

Käytä palamattomien materiaalien keräämiseen hiekkaa, piimaata tai yleisiä imeytysaineita ja säilö materiaali säiliöön hävittämistä varten, paikallisten määräysten mukaisesti.

Käytä puhdistamiseen tavallisia puhdistusaineita mahdollisuuksien mukaan. Vältä liuottimien käyttöä.

6.4. Viittaukset muihin kohtiin

Katso tietoja jätteen käsittelystä kohdasta 13 "Jätteiden käsittelyyn liittyvät näkökohdat".

Katso suojaustoimenpiteet kohdasta 8 "Altistumisen ehkäiseminen ja henkilönsuojaimet".

KOHTA 7: KÄSITTELY JA VARASTOINTI

7.1. Turvallisen käsittelyn edellyttämät toimenpiteet

Vältä suoraa kosketusta tuotteeseen.

Tupakointi, syöminen ja juominen ei ole sallittua työtiloissa.

Katso tietoja henkilökohtaisista suojaamista kohdasta 8 "Altistumisen ehkäiseminen ja henkilönsuojaimet".

7.2. Turvallisen varastoinnin edellyttämät olosuhteet, mukaan luettuina yhteensopimattomuudet

Avatut säiliöt on suljettava huolellisesti uudelleen ja pidettävä pystysuorassa vuotojen estämiseksi. Varastoi säiliössä, jossa on kestävä sisävuoraus.

Soveltuvat pakkaustavat:

Säilytä alkuperäispakkauksessa.

Varastointiolosuhteet:

Kuiva, viileä ja hyvin ilmastoitu

Yhteensopimattomat materiaalit:

Vahvat hapot, vahvat emäkset, vahvat hapettimet ja vahvat pelkistimet.

7.3. Erityinen loppukäyttö

Tätä tuotetta tulee käyttää vain kohdassa 1.2 kuvatulla tavalla.

KOHTA 8: ALTISTUMISEN EHKÄISEMINEN JA HENKILÖNSUOJAIMET

8.1. Valvontaa koskevat muuttujat

kaliumhydroksidi;kalilipeä

HTP-arvot (15 min) (mg/m³): 2

Huomautus:

"Kattoarvo" = Hetkelliseen arvoon verrattaessa on näytteenottoajan oltava niin lyhyt kuin käytännössä on mahdollista, ei kuitenkaan koskaan 15 minuuttia pidempi.

Natriumhydroksidi

HTP-arvot (15 min) (mg/m³): 2

Huomautus:

"Kattoarvo" = Hetkelliseen arvoon verrattaessa on näytteenottoajan oltava niin lyhyt kuin käytännössä on mahdollista, ei kuitenkaan koskaan 15 minuuttia pidempi.

Sosiaali- ja terveysministeriön asetus haitallisiksi tunnetuista pitoisuuksista (55/2025).

DNEL

kaliumhydroksidi;kalilipeä

Kesto:	Altistumisreitti:	DNEL:
Pitkäaikainen – paikalliset vaikutukset - työntekijät	Hengitettynä	1 mg/m ³
Pitkäaikainen – paikalliset vaikutukset - väestö	Hengitettynä	1 mg/m ³

Natriumhydroksidi

Kesto:	Altistumisreitti:	DNEL:
Pitkäaikainen – paikalliset vaikutukset - työntekijät	Hengitettynä	1 mg/m ³
Pitkäaikainen – paikalliset vaikutukset - väestö	Hengitettynä	1 mg/m ³
Pitkäaikainen – Systemaattiset vaikutukset - työntekijät	Ihon kautta	<2 %
Pitkäaikainen – Systemaattiset vaikutukset - väestö	Ihon kautta	2 %

PNEC

Natriumhydroksidi

Altistumisreitti:	Altistumisen kesto:	PNEC:
Jaksottainen päästö		3.1 mg/L

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

Jaksottainen päästö (merivesi)		2.3 mg/kg TG
Jäteveden käsittelylaitos		51 mg/L
Maa		0.853 mg/kg TG
Makeanveden sedimentti		23 mg/kg TG
Makeavesi		6.4 mg/L
Merivesi		0.64 mg/L

8.2. Altistumisen ehkäiseminen

Raja-arvojen noudattamista on seurattava säännöllisesti.

Yleiset suositukset:

Tupakointi, syöminen ja juominen ei ole sallittua työtiloissa.

Altistumisskenaariot:

Tälle tuotteelle ei ole annettu altistumisskenaarioita.

Työperäisen altistumisen raja-arvot:

Ammattikäyttäjää koskevat työympäristölainsäädännön säännökset altistumisen enimmäispitoisuuksista. Kts. työhygieeniset raja-arvot edellä.

Asianmukaiset tekniset torjuntatoimenpiteet:

Höyryn muodostuminen tulee minimoida, ja höyryn pitoisuus tulee pitää nykyisten raja-arvojen alapuolella (kts. edellä). Käytä tarvittaessa kohdepoistoa, mikäli ilmanvaihto työpaikalla ei ole riittävä. Huolehdi siitä, että silmähuuhtelupaikat ja hätäsuihkut on merkitty näkyvästi.

Varmista, että silmähuuhtelupaikat ja hätäsuihkut ovat helposti käytettävissä.

Noudata tavanomaisia varotoimenpiteitä tuotetta käytettäessä. Vältä höyryjen hengittämistä.

Hygieniatoimenpiteet:

Altistuneet kehon alueet on pestävä aina kun tuotteen käytössä on tauko tai kun työ loppuu. Kiinnitä erityistä huomiota käsiin, käsivarsiin ja kasvoihin

Varotoimet ympäristöaltistuksen rajoittamiseksi:

Pidä tuotteen ja työskentelypaikan välittömässä läheisyydessä imeytysainetta. Jos mahdollista, kerää roiskeet työskentelyn aikana.

Henkilökohtaiset suojaustoimenpiteet, kuten henkilönsuojaimet

Yleistä:

Käytä vain CE-merkinnällä varustettuja suojavarusteita.

Hengityksensuojaus:

Tyyppi	Luokka	Väri	Standardit	
Hengityksensuojainta ei tarvita ilmanvaihdon ollessa riittävä.				

Ihon suojaus:

Suositus	Tyyppi/Kategoria	Standardit	
Käytettävä työvaatetusta.	-	-	

Käsien suojaus:

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

Työolosuhteet	Materiaali	Paksuus (mm)	Läpäisy aika (min.)	Standardit	
Pitkäaikaisen altistumisen tai korkeiden pitoisuuksien yhteydessä	Nitriili	0.4	> 480	EN374-2, EN16523-1, EN388	
Lyhytaikaisen altistumisen tai alhaisten pitoisuuksien yhteydessä	Nitriili	1,5	> 30	EN374-2, EN16523-1, EN388	

Silmien ja kasvojen suojaus:

Tyyppi	Standardit	
Käytä suojalaseja, joissa on sivusuojat.	EN166	

KOHTA 9: FYSIKAALISET JA KEMIAALLISET OMINAISUUDET

9.1. Fysikaalisia ja kemiallisia perusominaisuuksia koskevat tiedot

Olomuoto:

Nestemäinen

Väri:

Vaaleankeltainen

▼ *Haju / Hajukynnys (ppm):*

Mieto

pH:

13.5

Tiheys (g/cm³):

1,29 (20 °C)

Kinemaattinen viskositeetti:

Tietoja ei saatavilla.

Hiukkasten ominaisuudet:

Ei koske nesteitä.

Tilan muutos ja höyryt

Sulamis / jäätymispiste (°C):

Tietoja ei saatavilla.

Pehmenemispiste tai -alue (°C):

Ei koske nesteitä.

Kiehumispiste (°C):

100

Höyrynpaine:

Tietoja ei saatavilla.

Höyryn suhteellinen tiheys:

Tietoja ei saatavilla.

Hajoamislämpötila (°C):

Tietoja ei saatavilla.

Palo-ja räjähdysvaara

Leimahduspiste (°C):

Tietoja ei saatavilla.

Syttyvyys (°C):

Tietoja ei saatavilla.

Itsesyttymislämpötila (°C):

Tietoja ei saatavilla.

Räjähdysrajat (% v/v):

Tietoja ei saatavilla.

Liukoisuus

Vesiliukoisuus:

Täysin liukeneva

Jakautumiskerroin: n-oktanoli/vesi (LogKow):

Tietoja ei saatavilla.

Rasvaliukoisuus (g/L):

Tietoja ei saatavilla.

9.2. Muut tiedot

Muut fysikaaliset ja kemialliset parametrit:

Tietoja ei saatavilla.

Hapettavat ominaisuudet:

Tietoja ei saatavilla.

KOHTA 10: STABIILISUUS JA REAKTIIVISUUS

10.1. Reaktiivisuus

Tietoja ei saatavilla.

10.2. Kemiallinen stabiilisuus

Tuote on stabiili olosuhteissa, jotka kerrotaan kohdassa 7 "Käsittely ja varastointi".

10.3. Vaarallisten reaktioiden mahdollisuus

Ei tunneta.

10.4. Vältettävät olosuhteet

Ei tunneta.

10.5. Yhteensopimattomat materiaalit

Vahvat hapot, vahvat emäkset, vahvat hapettimet ja vahvat pelkistimet.

10.6. Vaaralliset hajoamistuotteet

Lämpöhajaantuminen voi synnyttää syövyttäviä höyryjä.

KOHTA 11: MYRKYLLISYYTEEN LIITTYVÄT TIEDOT

11.1. Tiedot asetuksessa (EY) N:o 1272/2008 määritellyistä vaaraluokista

Välitön myrkyllisyys

Tuote/aineosa	kaliumhydroksidi;kalilipeä
Laji:	Rotta, uros
Altistumisreitti:	Suun kautta
Testi:	LD50

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

Tulos: 333 - 388 mg/kg

Tuote/aineosa Natriumhydroksidi
Tulos: 45.4 mg/L

Tuote/aineosa Natriumhydroksidi
Laji: Kani
Testi: LD 50
Tulos: 500 mg/kg

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Ihosisävyttävyyden/ihosärsytys

Tuote/aineosa iT.33 laundry booster pro
Tulos: Havaittu haittavaikutuksia (Erittäin ärsyttävä)

Tuote/aineosa kaliumhydroksidi;kalilipeä
Tulos: Havaittu haittavaikutuksia (Syövyttävä)

Tuote/aineosa Natriumhydroksidi
Tulos: Havaittu haittavaikutuksia (Ärsyttävä)

Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa.

Vakava silmävaurio/silmä-ärsytys

Tuote/aineosa iT.33 laundry booster pro
Tulos: Havaittu haittavaikutuksia (Vaurioittaa vakavasti silmiä)

Tuote/aineosa kaliumhydroksidi;kalilipeä
Tulos: Havaittu haittavaikutuksia (Erittäin syövyttävä)

Tuote/aineosa Natriumhydroksidi
Testimenetelmä: OECD 405
Laji: Kani
Tulos: Havaittu haittavaikutuksia (Syövyttävä)

Vaurioittaa vakavasti silmiä.

Hengitysteiden herkistyminen

Tuote/aineosa kaliumhydroksidi;kalilipeä
Tulos: Haittavaikutuksia ei havaittu (ei herkistävä)

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Ihon herkistyminen

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Sukusolujen perimää vaurioittavat vaikutukset

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Syöpää aiheuttavat vaikutukset

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Lisääntymiselle vaaralliset vaikutukset

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Eläinlääkinnälliset myrkyllisyys - kerta-altistuminen

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Eläinlääkinnälliset myrkyllisyys - toistuva altistuminen

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

Aspiraatiovaara

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

11.2. Tiedot muista vaaroista

Pitkäaikaisvaikutukset

Kudoksille tuhoisat vaikutukset: Tuote sisältää syövyttäviä aineita. Höyryn ja aerosolien sisäänhengittäminen voi vaurioittaa keuhkoja ja aiheuttaa ärsytystä ja kipua hengityselimissä sekä yskää. Syövyttävät aineet voivat aiheuttaa peruuttamattomia vahinkoja silmissä. Syövyttää ihoa.

Hormonitoimintaa häiritsevät ominaisuudet

Tämä seos/tuote ei sisällä aineita, joilla katsotaan olevan hormonitoimintaa häiritseviä ominaisuuksia terveydelle.

Muut tiedot

Ei tunneta.

KOHTA 12: TIEDOT VAARALLISUUDESTA YMPÄRISTÖLLE

12.1. Myrkyllisyys

Tuote/aineosa	iT.33 laundry booster pro
Laji:	Andere waterorganismen, Leuciscus idus
Ympäristön osa-alue:	Vesi
Kesto:	96 h
Testi:	LC50
Tulos:	>100 mg/L

Tuote/aineosa	Natriumhydroksidi
Laji:	Bakteerit, Pseudomonas putida
Testi:	EC0
Tulos:	>100 mg/L

Tuote/aineosa	Natriumhydroksidi
Laji:	Vesikirppu, Ceriodaphnia dubia
Kesto:	48 h
Tulos:	40.4 mg/L

Tuote/aineosa	Natriumhydroksidi
Testimenetelmä:	OECD 203
Laji:	Kala, Oncorhynchus mykiss
Kesto:	96 h
Testi:	LC50
Tulos:	45.4 mg/L

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

12.2. Pysyvyys ja hajoavuus

Saatavilla olevien tietojen perusteella luokituskriteerit eivät täyty.

12.3. Biokertyvyys

Tuote/aineosa	Natriumhydroksidi
Johtopäätös:	Biokertyvyys ei odotettavissa

12.4. Liikkuvuus maaperässä

Tietoja ei saatavilla.

12.5. PBT- ja vPvB-arvioinnin tulokset

Tämä seos/tuote ei sisällä aineita, jotka täyttäisivät PBT- ja/tai vPvB-aineiksi luokiteltavien aineiden kriteerit.

12.6. Hormonitoimintaa häiritsevät ominaisuudet

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

Tämä seos/tuote ei sisällä aineita, joilla katsotaan olevan hormonitoimintaa häiritseviä ominaisuuksia ympäristössä.

12.7. Muut haitalliset vaikutukset

Ei tunneta.

KOHTA 13: JÄTTEIDEN KÄSITTELYYN LIITTYVÄT NÄKÖKOHDAT

13.1. Jätteiden käsittelymenetelmät

Tämä tuote kuuluu vaarallisia jätteitä koskevan lainsäädännön piiriin. (*)

HP 8 - Syövyttävä

Hävitä sisältö/pakkaus vaarallisten jätteiden keräyspisteeseen.

Komission asetus (EU) N:o 1357/2014 jätteistä ja tiettyjen direktiivien kumoamisesta annetun Euroopan parlamentin ja neuvoston direktiivin 2008/98/EY liitteen III korvaamisesta.

Eurooppalainen jättekoodi:

20 01 29* Pesu- ja puhdistusaineet, jotka sisältävät vaarallisia aineita

Saastunut pakkaus

Pakkaukset, joissa on tuotteen jäämiä, hävitetään samojen määräysten mukaan kuin tuote.

KOHTA 14: KULJETUSTIEDOT

	14.1 YK-nro	14.2 Kuljetuksessa käytettävä virallinen nimi	14.3 Kuljetuksen vaaraluokat	14.4 PG*	14.5 Env**	Muut tiedot:
ADR	UN1719	SYÖVYTTÄVÄ NESTE, EMÄKSINEN, N.O.S. (kaliumhydroksidi;kalilipeä, Natriumhydroksidi)	Luokka: 8 Lipukkeet: 8 Luokituskoodi: C5 	II	Ei	Rajoitetut määrät: 1 L Tunnelirajoituskoodi: (E) Katso alhaalta lisätietoja.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Luokka: 8 Lipukkeet: 8 Luokituskoodi: C5 	II	Ei	Rajoitetut määrät: 1 L EmS: F-A S-B Katso alhaalta lisätietoja.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Luokka: 8 Lipukkeet: 8 Luokituskoodi: C5 	II	Ei	Katso alhaalta lisätietoja.

* Pakkausryhmä

** Ympäristövaarat

Muuta

Tuote kuuluu vaarallisten aineiden kuljetusta koskevan lainsäädännön piiriin.

ADR / Katso taulukosta A, kohdasta 3.2.1 mahdolliset tiedot erityismääräyksistä, vaatimuksista tai varoituksista kuljetukseen liittyen. Katso kohdasta 5.4.3 kirjalliset ohjeet vahinkojen lieventämisestä kuljetuksen aikana sattuneiden tapaturmien tai onnettomuuksien yhteydessä.

Täyttää asetuksen (EY) nro 1907/2006 (REACH) ja liitteen II vaatimukset asetuksen (EU) nro 2020/878 mukaisesti muutettuna

IMDG / Katso kohdasta 3.2.1 mahdolliset tiedot erityismääräyksistä, vaatimuksista tai varoituksista kuljetukseen liittyen.

IATA / Katso taulukosta 4.2 mahdolliset tiedot erityismääräyksistä, vaatimuksista tai varoituksista kuljetukseen liittyen.

14.6. Erityiset varotoimet käyttäjälle

Ei sovellettavissa.

14.7. Merikuljetus irtolastina IMO:n asiakirjojen mukaisesti

Tietoja ei saatavilla.

KOHTA 15: LAINSÄÄDÄNTÖÄ KOSKEVAT TIEDOT

15.1. Nimenomaisesti ainetta tai seosta koskevat turvallisuus-, terveys- ja ympäristösäännökset tai -lainsäädäntö

Käyttörajoitukset:

Vain ammattikäyttöön.

Tuotetta eivät saa käyttää ammattimaisesti alle 18-vuotiaat.

Erityiskoulutusta koskevat vaatimukset:

Ei erityisvaatimuksia.

SEVESO - Vaarallisten aineiden kategoriat / Nimetyt vaaralliset aineet:

Ei sovellettavissa.

Muuta:

Ei sovellettavissa.

Lähteet:

Sosiaali- ja terveysministeriön asetus 188/2012 nuorille työntekijöille vaarallisten töiden esimerkkiluettelosta.

Euroopan parlamentin ja neuvoston asetus (EY) N:o 648/2004 pesuaineista.

Komission asetus (EU) N:o 1357/2014 jätteistä ja tiettyjen direktiivien kumoamisesta annetun Euroopan parlamentin ja neuvoston direktiivin 2008/98/EY liitteen III korvaamisesta.

Euroopan parlamentin ja neuvoston asetus (EY) N:o 1272/2008 aineiden ja seosten luokituksesta, merkinnöistä ja pakkaamisesta (CLP).

Euroopan parlamentin ja neuvoston asetus (EY) N:o 1907/2006 kemikaalien rekisteröinnistä, arvioinnista, lupamenettelyistä ja rajoituksista (REACH).

15.2. Kemikaaliturvallisuusarviointi

Ei

KOHTA 16: MUUT TIEDOT.

Kohdassa 3 mainitut H-lausekkeet täydellisessä sanamuodossaan

H290, Voi syövyttää metalleja.

H302, Haitallista nieltynä.

H314, Voimakkaasti ihoa syövyttävää ja silmiä vaurioittavaa.

H315, Ärsyttää ihoa.

H318, Vaurioittaa vakavasti silmiä.

H319, Ärsyttää voimakkaasti silmiä.

Lyhenteet

ADN = Eurooppalainen sopimus koskien vaarallisten aineiden kansainvälistä sisävesikuljetuksista

ADR = Eurooppalainen sopimus vaarallisten aineiden maantiekuljetuksista

AS = Altistumisskenaario

ATE = Akuutin myrkyllisyyden estimaatti

BCF = Biologinen kertymistekijä

CAS = Kemikaalien tunnistenumerojärjestelmä

CLP = Asetus kemikaalien luokituksista, merkinnöistä ja pakkaamisesta [asetus (EU) No. 1272/2008]
KTA = Kemikaaliturvallisuusarviointi
KTR = Kemikaaliturvallisuusraportti
DNEL = Johdettu vaikutukseton altistumistaso
EINECS = Euroopan kaupallisessa käytössä olevien aineiden luettelo
EUH-lausekkeet = CLP-asetuksen lisävaaralausekkeet
EuPCS = Eurooppalainen tuoteluokitusjärjestelmä
EWC = Euroopan jäteluettelo
GHS = Kemikaalien yhdenmukaistettu luokitus- ja merkintäjärjestelmä
GWP = Ilmaston lämmitysvaikutuspotentiaali
HTP = Haitalliseksi tunnettu pitoisuus
IATA = Kansainvälinen ilmakuljetusliitto
IBC = Intermediate Bulk Container, IBC-kontti
IMDG = Vaarallisten aineiden merikuljetus
MARPOL = Kansainvälinen sopimusmeren pilaantumisen ehkäisemisestä 73/78, ("Marpol" = marine pollution)
OECD = Taloudellisen yhteistyön ja kehityksen järjestö
PBT = Hitaasti hajoava, biokertyvä ja myrkyllinen
PNEC = Arvioitu vaikutukseton pitoisuus
RID = Kansainväliset rautatiekuljetusmääräykset
RRN = REACH-rekisteröintinumero
SCL = Erityinen pitoisuusraja
SVHC = Erityistä huolta aiheuttava aine
STOT-SE = Elinkohtainen myrkyllisyys - toistuva altistuminen
STOT-RE = Elinkohtainen myrkyllisyys - kerta-altistuminen
YK = Yhdistyneet kansakunnat
UVCB = Koostumukseltaan tuntematon tai vaihteleva aine, kompleksi reaktiotuote tai biologinen materiaali
VOC = Haihtuvat ogaaniset yhdisteet
vPvB = Erittäin hitaasti hajoava ja erittäin voimakkaasti biokertyvä "

Lisätietoja

Seoksen terveysvaarojen luokitus on asetuksen (EY) N:o 1272/2008 (CLP) laskentamenetelmän mukainen.

Käyttöturvallisuustiedotteen on validoinut

Quality & Compliance

Muuta

Muutokset edelliseen merkittävään versioon (versionumeron ensimmäinen numero, kts. KTT:n kohta 1) merkitään sinisellä kolmiolla.
Tämän käyttöturvallisuustiedotteen tiedot koskevat vain kohdassa 1 mainittua tuotetta, eivätkä ne välttämättä koske käyttöä yhdessä muiden tuotteiden kanssa.
On suositeltavaa toimittaa tämä käyttöturvallisuustiedote tuotteen varsinaiselle käyttäjälle. Annettuja tietoja ei saa käyttää tuoteselosteena.
Maa-kieli: FI-fi

FICHE DE DONNÉES DE SÉCURITÉ

iT.33 laundry booster pro

RUBRIQUE 1: IDENTIFICATION DE LA SUBSTANCE/DU MÉLANGE ET DE LA SOCIÉTÉ/DE L'ENTREPRISE

1.1. Identificateur de produit

Marque commerciale:

iT.33 laundry booster pro

Identifiant unique de formulation (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Utilisations identifiées pertinentes de la substance ou du mélange:

Produits de lavage et de nettoyage (y compris produits à base de solvants)

Réservé aux utilisateurs professionnels.

Utilisations déconseillées :

Aucune connue.

1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Nom et adresse de l'entreprise:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Courriel:

info@hygeniq.com

Révision:

14/08/2025

Version de la fiche de données de sécurité:

2.0

Date de la précédente édition:

28/07/2025 (1.0)

1.4. Numéro d'appel d'urgence

ORFILA: + 33 (0)1 45 42 59 59.

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7

Voir la rubrique 4 concernant les premiers secours.

RUBRIQUE 2: IDENTIFICATION DES DANGERS

Classée conformément au règlement (CE) n° 1272/2008 (CLP).

2.1. Classification de la substance ou du mélange

Met. Corr. 1; H290, Peut être corrosif pour les métaux.

Skin Corr. 1A; H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.

Eye Dam. 1; H318, Provoque de graves lésions des yeux.

2.2. Éléments d'étiquetage

Pictogramme(s) de danger:



Mention d'avertissement:

Danger

Mention(s) de danger:

Peut être corrosif pour les métaux. (H290)

Provoque de graves brûlures de la peau et de graves lésions des yeux. (H314)

Conseil(s) de prudence:

▼ **Générales:**

Sans objet.

Précautions:

Ne pas respirer les vapeurs/brouillards. (P260)

Porter un équipement de protection des yeux/ des gants de protection/des vêtements de protection. (P280)

▼ **Intervention:**

EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux): Enlever immédiatement tous les vêtements contaminés.

Rincer la peau à l'eau ou se doucher. (P303+P361+P353)

EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

(P305+P351+P338)

Appeler immédiatement un CENTRE ANTIPOISON/un médecin. (P310)

Stockage:

Stocker dans un récipient avec doublure intérieure. (P406)

Élimination:

Éliminer le contenu/récipient conformément à la réglementation locale (P501)

Contient:

hydroxyde de potassium;potasse caustique

hydroxyde de sodium

soude caustique

Autre étiquetage:

UFI : EMGV-AVQ8-YF2J-F4QE

2.3. Autres dangers

Autre:

Ce mélange/produit ne contient aucune substance considérée comme répondant aux critères de classification comme PBT et/ou vPvB.

Ce produit ne contient aucune substance considérée comme étant un perturbateur endocrinien conformément aux critères définis dans le règlement délégué (UE) 2017/2100 ou le règlement (UE) 2023/707 de la Commission.

RUBRIQUE 3: COMPOSITION/INFORMATIONS SUR LES COMPOSANTS

3.1. Substances

Sans objet. Ce produit est un mélange.

3.2. ▼ Mélanges

Produit/composant	Identifiants	% w/w	Classification	Note
hydroxyde de potassium;potasse caustique	N° CAS : 1310-58-3 N° CE: 215-181-3 REACH: N° index : 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hydroxyde de sodium soude caustique	N° CAS : 1310-73-2 N° CE: 215-185-5 REACH: 01-2119457892-27-XXXX N° index : 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Le texte intégral des phrases H se trouve dans la rubrique 16. Les limites d'exposition professionnelle sont indiquées dans la rubrique 8, à condition d'être disponibles

Autres informations

-

RUBRIQUE 4: PREMIERS SECOURS

4.1. Description des mesures de premiers secours

Généralités:

En cas d'accident : Contactez un médecin ou l'hôpital, apportez l'étiquette ou bien la présente fiche de données de sécurité.

En cas de symptômes persistants ou en cas de doute concernant l'état de la personne blessée, faites appel à un médecin. Ne donnez jamais à boire de l'eau ou autre liquide à une personne ayant perdu connaissance.

Inhalation:

En cas de difficultés respiratoires ou d'irritation des voies respiratoires : Amenez la personne à l'air frais et gardez la personne sous surveillance.

Contact cutané:

Rincez la zone exposée à l'eau pendant une longue période - au moins 30 minutes. Il peut être nécessaire de rincer pendant plusieurs heures. Utilisez une température d'eau confortable (20-30 °C). Contactez le service antipoison/le médecin/l'hôpital pour obtenir des conseils supplémentaires sur le suivi et le traitement.

Retirez immédiatement les vêtements et chaussures contaminés. Lavez soigneusement avec de l'eau et du savon la peau qui a été en contact avec le produit. Des produits nettoyants domestiques peuvent être utilisés. N'utilisez PAS de produits solvants ou de diluants.

En cas d'irritation cutanée: consulter un médecin.

Contact visuel:

En cas de contact avec les yeux: Rincez aussitôt les yeux avec de grandes quantités d'eau (20-30 °C) pendant au moins 30 minutes et continuez jusqu'à ce que l'irritation cesse. Retirez les éventuelles lentilles de contact. Assurez-vous de bien rincer sous la paupière supérieure et sous la paupière inférieure. Faites aussitôt appel à un médecin. Consultez un médecin immédiatement et continuez de rincer pendant le trajet.

Ingestion:

En cas d'ingestion, contactez immédiatement un médecin. Donnez au blessé de l'eau à boire si la personne est consciente. N'essayez JAMAIS de faire vomir à moins que le médecin ne le recommande. Maintenez la tête tournée vers le bas de manière à ce que le vomi ne revienne pas dans la bouche et la gorge. Prévenez les chocs en gardant le blessé au chaud et au calme. Pratiquez la respiration artificielle si la respiration s'arrête. En cas d'évanouissement; mettez le blessé en position latérale de sécurité. Appelez une ambulance.

Brûlure:

Sans objet.

4.2. Principaux symptômes et effets, aigus et différés

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau. L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

4.3. Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires

EN CAS d'exposition prouvée ou suspectée:

Consulter immédiatement un médecin.

Informations pour le médecin

Apportez la présente fiche de données de sécurité ou l'étiquette du produit.

RUBRIQUE 5: MESURES DE LUTTE CONTRE L'INCENDIE

5.1. Moyens d'extinction

Sans objet.

5.2. Dangers particuliers résultant de la substance ou du mélange

Le feu va dégager une épaisse fumée. L'exposition aux produits de décomposition représente un danger pour la santé. Les récipients fermés exposés au feu sont refroidis avec de l'eau. Ne laissez pas de l'eau ayant servi à éteindre l'incendie s'écouler dans les égouts et les cours d'eau.

Si le produit est exposé à de hautes températures, par exemple en cas d'incendie, de dangereux produits gazeux de décomposition peuvent être créés. Il s'agit de :
Certains oxydes de métal

5.3. Conseils aux pompiers

Portez une combinaison d'intervention normale et une protection respiratoire complète afin d'éviter tout contact. Voir la rubrique 1 concernant numéro d'appel d'urgence.

RUBRIQUE 6: MESURES À PRENDRE EN CAS DE DISPERSION ACCIDENTELLE

6.1. Précautions individuelles, équipement de protection et procédures d'urgence

Évitez le contact direct avec le produit répandu.

Assurer une ventilation adéquate, en particulier dans les espaces confinés.

Les zones contaminées peuvent être glissantes.

6.2. Précautions pour la protection de l'environnement

Ne déversez pas dans les lacs, les ruisseaux, les égouts, etc.

Tenir les personnes non autorisées éloignées du déversement.

6.3. Méthodes et matériel de confinement et de nettoyage

Contenez et collectez les déversements avec un matériau absorbant non combustible, par exemple du sable, de la terre, de la vermiculite ou de la terre de diatomées, et placez-les dans un récipient pour les éliminer conformément aux réglementations locales.

Nettoyez autant que possible avec des produits de nettoyage ordinaires. Évitez les solvants.

6.4. Référence à d'autres rubriques

Voir la rubrique 13 "Considérations relatives à l'élimination" sur la manipulation des déchets.
Voir la rubrique 8 "Contrôles de l'exposition/protection individuelle" pour les mesures de protection.

RUBRIQUE 7: MANIPULATION ET STOCKAGE

7.1. Précautions à prendre pour une manipulation sans danger

Éviter le contact direct avec le produit.

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Voir la rubrique 8 «Contrôles de l'exposition/protection individuelle» pour des renseignements sur les dispositifs de protection individuelle.

7.2. Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités

Les récipients ayant été ouverts doivent être refermés avec soin et maintenus en position verticale afin d'éviter les fuites.

Stocker dans un récipient avec doublure intérieure.

Les compatibilités en matière de conditionnement:

Conserver uniquement dans l'emballage d'origine.

Conditions de stockage:

Sec, frais et bien ventilé

Matières incompatibles:

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

7.3. Utilisation(s) finale(s) particulière(s)

Ce produit doit être utilisé exclusivement pour les applications décrites la rubrique 1.2.

RUBRIQUE 8: CONTRÔLES DE L'EXPOSITION/PROTECTION INDIVIDUELLE

8.1. Paramètres de contrôle

hydroxyde de potassium;potasse caustique

Valeur à court terme (15 minutes) (VLCT ou VLE) (mg/m³): 2

hydroxyde de sodium

soude caustique

Valeur limite (8 heures) (VLEP) (mg/m³): 2

Valeurs limites d'exposition professionnelle (VLEP) 06/2024.

DNEL

hydroxyde de potassium;potasse caustique

Durée :	Voie d'exposition :	DNEL :
Effets locaux à long terme - population globale	Inhalation	1 mg/m ³
Effets locaux à long terme - Travailleurs	Inhalation	1 mg/m ³

hydroxyde de sodium

soude caustique

Durée :	Voie d'exposition :	DNEL :
Effets systématiques à long terme - population globale	Cutanée	2 %
Effets systématiques à long terme - Travailleurs	Cutanée	<2 %
Effets locaux à long terme - population globale	Inhalation	1 mg/m ³

Effets locaux à long terme - Travailleurs	Inhalation	1 mg/m ³

PNEC

hydroxyde de sodium
soude caustique

Voie d'exposition :	Durée d'exposition :	PNEC :
Eau de mer		0.64 mg/L
Eau douce		6.4 mg/L
Emission intermittente		3.1 mg/L
Installation de traitement des eaux usées		51 mg/L
Rejets intermittents (eau de marines)		2.3 mg/kg TG
Sédiments en eau douce		23 mg/kg TG
Sol		0.853 mg/kg TG

8.2. Contrôles de l'exposition

Le respect des valeurs limites indiquées doit être contrôlé régulièrement.

Précautions générales:

La consommation de tabac, de nourriture et de boissons n'est pas permise dans les locaux de travail.

Scénarios d'exposition:

Aucun scénario d'exposition n'est mis en œuvre pour ce produit.

Limite d'exposition:

Les utilisateurs professionnels sont concernés par la législation sur l'environnement de travail qui concerne les concentrations maximales auxquelles il est permis d'être exposé. Voir les valeurs limites d'hygiène de travail indiquées ci-dessus.

Mesures techniques:

La formation de vapeur doit être minimale et rester sous les valeurs limites actuelles (voir ci-dessus). Si l'aération n'est pas suffisante dans la pièce, l'installation d'un système local de ventilation est recommandée. Assurez-vous que les douches oculaires et les douches d'urgence sont clairement indiquées.

S'assurer que les postes de rinçage oculaire et les douches de décontamination sont facilement accessibles. Suivez les précautions habituelles quand vous utilisez le produit. Évitez de respirer les vapeurs.

Mesures d'hygiène:

A chaque pause lors de l'utilisation du produit et une fois le travail terminé, les parties exposées du corps doivent être lavées. Porter une attention particulière aux mains, aux avant-bras et au visage.

Mesures pour la limitation de l'exposition à l'environnement:

Assurez-vous que des matériaux de retenue se trouvent à proximité du poste de travail. Collectez les déperditions si possible au cours du travail.

Mesures de protection individuelle, telles que les équipements de protection personnelle

Généralités:

Utilisez exclusivement des équipements de protection comportant la marque CE.

Équipements respiratoires:

Type	Classe	Couleur	Normes	
Aucune protection respiratoire n'est requise en cas de ventilation adaptée				

Protection de la peau:

Recommandé	Type/Catégorie	Normes	
Utilisez des vêtements de travail dédiés	-	-	

Protection des mains:

Situation de travail	Matériel	Épaisseur minimum (mm)	Délai de rupture (min.)	Normes	
En cas d'exposition prolongée ou de concentration élevée	Caoutchouc nitrile	0,4	> 480	EN374-2, EN16523-1, EN388	
En cas d'exposition de courte durée ou de faible concentration	Caoutchouc nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Protection des yeux:

Type	Normes	
Porter des lunettes de sécurité avec protections latérales.	EN166	

RUBRIQUE 9: PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

9.1. Informations sur les propriétés physiques et chimiques essentielles

Etat physique:

Liquide

Couleur:

Jaune pâle

▼ *Odeur / Seuil olfactif (ppm):*

Doux

pH:

13,5

Densité (g/cm³):

1,29 (20 °C)

Viscosité cinématique:

Aucune information disponible.

Caractéristiques des particules:

Ne s'applique pas aux liquides.

Changement d'état

Point de fusion/point de congélation (°C):

Aucune information disponible.

Le point/l'intervalle de ramollissement (°C):

Ne s'applique pas aux liquides.

Point d'ébullition (°C):

100

Pression de vapeur:

Aucune information disponible.

Densité de vapeur relative :

Aucune information disponible.

Température de décomposition (°C):

Aucune information disponible.

Informations concernant les risques d'explosion et d'incendie

Point d'éclair (°C):

Aucune information disponible.

Inflammabilité (°C):

Aucune information disponible.

Température d'auto-inflammation (°C):

Aucune information disponible.

Limite d'explosivité (% v/v):

Aucune information disponible.

Solubilité

Solubilité dans l'eau:

Complètement soluble

n-octanol/coefficient d'eau (LogKow):

Aucune information disponible.

Solubilité dans la graisse (g/L):

Aucune information disponible.

9.2. Autres informations

D'autres paramètres physiques et chimiques:

Aucune information disponible.

Capacités oxydantes:

Aucune information disponible.

RUBRIQUE 10: STABILITÉ ET RÉACTIVITÉ

10.1. Réactivité

Aucune information disponible.

10.2. Stabilité chimique

Le produit est stable dans les conditions indiquées à la rubrique 7 (Manipulation et stockage).

10.3. Possibilité de réactions dangereuses

Aucune connue.

10.4. Conditions à éviter

Aucune connue.

10.5. Matières incompatibles

Acides forts, bases fortes, oxydants forts et des réducteurs forts.

10.6. Produits de décomposition dangereux

La décomposition thermique peut produire des vapeurs corrosives.

RUBRIQUE 11: INFORMATIONS TOXICOLOGIQUES

11.1. Informations sur les classes de danger telles que définies dans le règlement (CE) n° 1272/2008

Toxicité aiguë

Produit/composant	hydroxyde de potassium;potasse caustique
Espèce :	Rat, mâle
Voie d'exposition :	Orale
Test :	DL50
Valeur :	333 - 388 mg/kg

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	45.4 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Lapin
Test :	LD lo
Valeur :	500 mg/kg

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Corrosion cutanée/irritation cutanée

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Très irritant)

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Effets nocifs observés (Corrosif)

Produit/composant	hydroxyde de sodium soude caustique
Valeur :	Effets nocifs observés (Irritant)

Provoque de graves brûlures de la peau et de graves lésions des yeux.

Lésions oculaires graves/irritation oculaire

Produit/composant	iT.33 laundry booster pro
Valeur :	Effets nocifs observés (Provoque de graves lésions des yeux)

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Effets nocifs observés (Très corrosif)

Produit/composant	hydroxyde de sodium soude caustique
Méthode d'essai :	OCDE 405
Espèce :	Lapin
Valeur :	Effets nocifs observés (Corrosif)

Provoque de graves lésions des yeux.

Sensibilisation respiratoire

Produit/composant	hydroxyde de potassium;potasse caustique
Valeur :	Aucun effet nocif observé (pas sensibilisant)

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Sensibilisation cutanée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Mutagénicité sur les cellules germinales

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Cancérogénicité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité pour la reproduction

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles — exposition unique

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Toxicité spécifique pour certains organes cibles – exposition répétée

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

Danger par aspiration

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

11.2. Informations sur les autres dangers

Effets sur le long terme

Effets néfastes sur les tissus : ce produit contient des substances ayant des propriétés corrosives sur la peau. L'inhalation de vapeurs ou d'aérosols peut produire des effets néfastes sur les poumons, irritations et brûlures dans les organes respiratoires ainsi que de la toux. Le contact cutané et le contact avec les yeux provoquent des effets irréversibles.

Propriétés perturbant le système endocrinien

Ce mélange/produit ne contient aucune substance considérée comme ayant des propriétés qui provoquent des troubles hormonaux vis-à-vis de la santé.

Autres informations

Aucune connue.

RUBRIQUE 12: INFORMATIONS ÉCOLOGIQUES

12.1. Toxicité

Produit/composant	iT.33 laundry booster pro
Espèce :	Andere waterorganismen, Leuciscus idus
Milieu environnemental :	Eau
Durée :	96 heures
Test :	CL50
Valeur :	>100 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Bactéries, Pseudomonas putida
Test :	CE0
Valeur :	>100 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Espèce :	Daphnie, Ceriodaphnia dubia
Durée :	48 heures
Valeur :	40.4 mg/L

Produit/composant	hydroxyde de sodium soude caustique
Méthode d'essai :	OCDE 203
Espèce :	Poisson, Oncorhynchus mykiss
Durée :	96 heures
Test :	CL50
Valeur :	45.4 mg/L

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.2. Persistance et dégradabilité

Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

12.3. Potentiel de bioaccumulation

Produit/composant hydroxyde de sodium
 soude caustique

Conclusion : Il n'est pas prévu de bioaccumulation

12.4. Mobilité dans le sol

Aucune information disponible.

12.5. Résultats des évaluations PBT et vPvB

Ce mélange/produit ne contient aucune substance considérée comme répondant aux critères de classification comme PBT et/ou vPvB.

12.6. Propriétés perturbant le système endocrinien

Ce mélange/produit ne contient pas de composants considérés comme ayant des propriétés perturbatrices du système endocrinien

12.7. Autres effets néfastes

Aucune connue.

RUBRIQUE 13: CONSIDÉRATIONS RELATIVES À L'ÉLIMINATION

13.1. Méthodes de traitement des déchets

Le produit est couvert par la réglementation sur les déchets dangereux. (*)

HP 8 - Corrosif

Éliminer le contenu/récipient conformément à la réglementation locale.

Règlement (UE) n° 1357/2014 de la Commission du 18 décembre 2014 relative aux déchets.

Code CED:

20 01 29* Détergents contenant des substances dangereuses

Emballages pollués

Les emballages avec des résidus de produit sont éliminés en suivant les mêmes règles que pour le produit lui-même.

RUBRIQUE 14: INFORMATIONS RELATIVES AU TRANSPORT

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5. Env**	Autres informations :
ADR	UN1719	LIQUIDE ALCALIN CAUSTIQUE, N.S.A. (hydroxyde de potassium;potasse caustique, hydroxyde de sodium soude caustique)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Quantités limitées: 1 L Code de restriction en tunnels: (E) Voir ci-dessous pour plus d'informations.

	14.1 ONU	14.2 Désignation officielle de transport	14.3 Classe(s) de danger pour le transport	14.4 PG*	14.5. Env**	Autres informations :
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Quantités limitées: 1 L EmS: F-A S-B Voir ci-dessous pour plus d'informations.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Étiquettes: 8 Code de classification: C5 	II	Non	Voir ci-dessous pour plus d'informations.

* Groupe d'emballage

** Dangers pour l'environnement

Autre

Le produit est concerné par les conventions sur les marchandises dangereuses.

ADR / Voir tableau A, section 3.2.1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport. Voir la section 5.4.3, pour les instructions écrites concernant l'atténuation des dommages en cas d'incidents ou d'accidents pendant le transport.

IMDG / Voir section 3.2.1 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

IATA / Voir tableau 4.2 pour toute information sur les dispositions spéciales, les exigences ou les avertissements en rapport avec le transport.

14.6. Précautions particulières à prendre par l'utilisateur

Sans objet.

14.7. Transport maritime en vrac conformément aux instruments de l'OMI

Aucune information disponible.

RUBRIQUE 15: INFORMATIONS RELATIVES À LA RÉGLEMENTATION

15.1. Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement

Limites d'utilisation:

Réservé aux utilisateurs professionnels.

Les jeunes de moins de 18 ans ne doivent pas être exposés au produit.

Demandes de formation spécifique:

Pas d'exigences particulières.

Protection contre les accidents majeurs - Catégories / Substances dangereuses désignées:

Sans objet.

Autre:

Sans objet.

Sources:

Ordonnance n° 2001-174 du 22 février 2001 relative à la transposition de la directive 94/33/CE du Conseil du 22 juin 1994 relative à la protection des jeunes au travail.
Règlement (CE) n° 648/2004 du Parlement européen et du Conseil du 31 mars 2004 relatif aux détergents.
Règlement (UE) n° 1357/2014 de la Commission du 18 décembre 2014 relative aux déchets.
Règlement (CE) n° 1272/2008 du Parlement européen et du Conseil du 16 décembre 2008 relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges (CLP).
Règlement (CE) n° 1907/2006 du Parlement européen et du Conseil du 18 décembre 2006 concernant l'enregistrement, l'évaluation et l'autorisation des substances chimiques, ainsi que les restrictions applicables à ces substances (REACH).

15.2. Évaluation de la sécurité chimique

Non

RUBRIQUE 16: AUTRES INFORMATIONS

Précisions sur les phrases H dont il est question dans la rubrique 3

H290, Peut être corrosif pour les métaux.
H302, Nocif en cas d'ingestion.
H314, Provoque de graves brûlures de la peau et de graves lésions des yeux.
H315, Provoque une irritation cutanée.
H318, Provoque de graves lésions des yeux.
H319, Provoque une sévère irritation des yeux.

Abréviations et acronymes

ADN = Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation intérieure
ADR = L'Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CVI = Conteneurs en Vrac Intermédiaires
CLP = Règlement 1272/2008/CE relatif à la classification, à l'étiquetage et à l'emballage des substances et des mélanges
COV = Composés Organiques Volatils
CPSE = Concentration Prédite Sans Effet
CSA = Evaluation de la Sécurité Chimique
CSR = Rapport sur la Sécurité Chimique
DMEL = Dose dérivée avec effet minimum
DNEL = Dose dérivée sans effet
ds = les déchets spéciaux
EINECS = Inventaire européen des substances chimiques commerciales existantes
ETA = Estimation de la Toxicité Aiguë
EuPCS = Système européen de catégorisation des produits
FBC = Facteur de Bioconcentration
Mention EUH = mention de danger spécifique CLP
IARC = Le Centre international de Recherche sur le Cancer (CIRC)
IATA = Association Internationale du Transport Aérien
code IMDG = code maritime international des marchandises dangereuses
LogKoe = Coefficient de partage octanol/eau
MARPOL = Convention internationale pour la prévention de la pollution par les navires de 1973, telle que modifiée par le Protocole de 1978. ("MARPOL" = pollution maritime)
NU = Nations Unies
OCDE = Organisation de Coopération et de Développement Economiques
PBT = Persistantes, Bioaccumulables et Toxiques
PRP = Le potentiel de réchauffement planétaire

REACH = Règlement sur l'enregistrement, l'évaluation, l'autorisation et les restrictions des substances chimiques

[Règlement (CE) N° 1907/2006]

RID = Règlement concernant le transport International ferroviaire des marchandises Dangereuses

RRN = Numéro d'enregistrement REACH

sc = les autres déchets soumis à contrôle

scd = autres déchets soumis à contrôle qui nécessitent un document de suivi

SCL = Limite de concentration spécifique (LCS).

SE = Scénario d'Exposition

SGH = Système Général Harmonisé de classification et d'étiquetage des produits chimiques

SVHC = Substances extrêmement préoccupantes

TDAA = Température de décomposition auto-accélérée

vPvB = Très Persistant et très Bioaccumulable

TSOC-ER = Toxicité Spécifique pour certains Organes Cibles - Exposition Répétée

TSOC-EU = Toxicité Spécifique pour certains Organes Cibles - Exposition Unique

TWA = Moyenne pondérée dans le temps

UVBC = Substances de composition inconnue ou variable, produits de réaction complexes ou matières biologiques

Autre

La classification du mélange au regard des risques pour la santé est conforme aux méthodes de calcul fournies par le Règlement (CE) n° 1272/2008.

Validé par

Quality & Compliance

Autre

Les modifications par rapport à la dernière révision importante (premiers chiffres dans la fiche, voir rubrique 1) de cette fiche de données de sécurité sont repérées par un triangle.

Les informations de la présente fiche de données de sécurité sont seulement valables pour ce produit (indiqué à la rubrique 1) et ne sont pas nécessairement valables pour l'utilisation d'autres produits/produits chimiques.

Il est recommandé de donner cette fiche de données de sécurité à l'utilisateur effectif du produit. Les informations de ce document ne peuvent pas être utilisées comme spécification du produit.

Pays-langue : FR-fr

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

Unique formula identifier (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revision:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

▼ *Response:*

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 UK-REACH: Index No.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

potassium hydroxide;caustic potash
Short term exposure limit (15 minutes) (mg/m³): 2

sodium hydroxide;caustic soda
Short term exposure limit (15 minutes) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

potassium hydroxide;caustic potash

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

sodium hydroxide;caustic soda

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2 %
Long term – Systemic effects - Workers	Dermal	<2 %
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

PNEC

sodium hydroxide;caustic soda

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6.4 mg/L

Freshwater sediment		23 mg/kg TG
Intermittent release		3.1 mg/L
Intermittent release (marine water)		2.3 mg/kg TG
Marine water		0.64 mg/L
Sewage treatment plant		51 mg/L
Soil		0.853 mg/kg TG

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Pale yellow

▼ *Odour / Odour threshold:*

Mild

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Lower and upper explosion limit (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Oxidizing properties:

No data available.

Other physical and chemical parameters:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

20 01 29* Detergents containing dangerous substances

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5	II	No	See below for additional information.

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
						

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2R

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:

Not applicable.

Additional information:

Not applicable.

Sources:

The Management of Health and Safety at Work Regulations 1999.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en

ΔΕΛΤΙΟ ΔΕΔΟΜΕΝΩΝ ΑΣΦΑΛΕΙΑΣ

iT.33 laundry booster pro

ΤΜΗΜΑ 1: ΑΝΑΓΝΩΡΙΣΤΙΚΌΣ ΚΩΔΙΚΌΣ ΟΥΣΊΑΣ/ΜΕΊΓΜΑΤΟΣ ΚΑΙ ΕΠΙΧΕΊΡΗΣΗΣ

1.1. Αναγνωριστικός κωδικός προϊόντος

Εμπορική ονομασία:

iT.33 laundry booster pro

Μοναδικό κωδικό ταυτοποίησης τύπου (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Συναφείς προσδιοριζόμενες χρήσεις της ουσίας ή του μείγματος και αντενδεικνυόμενες χρήσεις

Αντίστοιχες εξακριβωμένες χρήσεις της ουσίας ή του μίγματος:

Απορρυπαντικά και καθαριστικά (συμπεριλαμβανομένων των διαλυτικών)

Μόνο για επαγγελματική χρήση.

Αντενδεικνυόμενες:

καμία γνωστή.

1.3. Στοιχεία του προμηθευτή του δελτίου δεδομένων ασφαλείας

Εταιρεία και διεύθυνση:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Ηλεκτρονική διεύθυνση:

info@hygeniq.com

Αναθεώρηση:

14/8/2025

Έκδοση SDS:

2.0

Ημερομηνία προηγούμενης έκδοσης:

28/7/2025 (1.0)

1.4. Αριθμός τηλεφώνου επείγουσας ανάγκης

Τηλ. Κέντρου Δηλητηριάσεων: (+30) 210 7793777 (24ωρο, 7 ημέρες την εβδομάδα) / Email:

poison_ic@aglaiaikyriakou.gr

Δείτε τμήμα 4 "Μέτρα πρώτων βοηθειών"

ΤΜΗΜΑ 2: ΠΡΟΣΔΙΟΡΙΣΜΌΣ ΕΠΙΚΙΝΔΥΝΌΤΗΤΑΣ

Ταξινομημένη σύμφωνα με τον Κανονισμό (ΕΚ) No. 1272/2008 (CLP)

2.1. Ταξινόμηση της ουσίας ή του μείγματος

Met. Corr. 1; H290, Μπορεί να διαβρώσει μέταλλα.

Skin Corr. 1A; H314, Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες.

Eye Dam. 1; H318, Προκαλεί σοβαρή οφθαλμική βλάβη.

2.2. Στοιχεία ετικέτας

Εικονόγραμμα/εικονογράμματα κινδύνου:



Προειδοποιητική λέξη:

Κίνδυνος

Δήλωση (Δηλώσεις) κινδύνου:

Μπορεί να διαβρώσει μέταλλα. (H290)

Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες. (H314)

Δήλωση/δηλώσεις προφυλάξεων:

▼ Γενικά:

Δεν εφαρμόζεται

Πρόληψη:

Μην αναπνέετε ατμούς/σταγονίδια. (P260)

Να φοράτε προστασία ματιών/προστατευτικά γάντια/προστατευτική ενδυμασία. (P280)

▼ Αντίδραση:

ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΟ ΔΕΡΜΑ (ή με τα μαλλιά): Βγάλτε αμέσως όλα τα μολυσμένα ρούχα. Ξεπλύνετε την επιδερμίδα με νερό ή στο ντους. (P303+P361+P353)

ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΑ ΜΑΤΙΑ: Ξεπλύνετε προσεκτικά με νερό για αρκετά λεπτά. Αν υπάρχουν φακοί επαφής, αφαιρέστε τους, αν είναι εύκολο. Συνεχίστε να ξεπλένετε. (P305+P351+P338)

Καλέστε αμέσως το ΚΕΝΤΡΟ ΔΗΛΗΤΗΡΙΑΣΕΩΝ/γιατρό. (P310)

Αποθήκευση:

Αποθηκεύεται σε περιέκτη με ανθεκτική εσωτερική επένδυση. (P406)

Απόρριψη:

Διάθεση του περιεχομένου/περιέκτη σε σύμφωνα με τους τοπικούς κανονισμούς (P501)

Ταυτότητα των ουσιών που είναι πρωταρχικά υπεύθυνες για τους μείζονες κινδύνους για την υγεία:

υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα

υδροξείδιο του νάτριου;Καυστική σόδα

Επιπρόσθετος χαρακτηρισμός:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Άλλοι κίνδυνοι

Επιπρόσθετες προειδοποιήσεις:

Αυτό το μείγμα/προϊόν δεν περιέχει ουσίες που θεωρείται ότι πληρούν τα κριτήρια ταξινόμησης τους ως ABT και/ή aAaB.

Το προϊόν δεν περιέχει ουσίες που αξιολογούνται ως ενδοκρινικοί διαταράκτες σύμφωνα με τα κριτήρια του κατ' εξουσιοδότηση κανονισμού (ΕΕ) 2017/2100 της Επιτροπής ή του κανονισμού (ΕΕ) 2023/707 της Επιτροπής.

ΤΜΗΜΑ 3: ΣΥΝΘΕΣΗ/ΠΛΗΡΟΦΟΡΪΕΣ ΓΙΑ ΤΑ ΣΥΣΤΑΤΙΚΆ

3.1. Ουσίες

Δεν εφαρμόζεται. Αυτό το προϊόν είναι ένα μείγμα.

3.2. ▼ Μείγματα

Όνομα ουσίας	Αναγνωριστικοί κωδικοί	% w/w	Ταξινόμηση	Σημειώσεις
υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα	Αριθ. CAS.: 1310-58-3 Αριθ. ΕΚ: 215-181-3 REACH: Αριθ. ευρετηρίου: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
υδροξείδιο του νατρίου;Καυστική σόδα	Αριθ. CAS.: 1310-73-2 Αριθ. ΕΚ: 215-185-5 REACH: 01-2119457892-27-XXXX Αριθ. ευρετηρίου: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Δείτε το πλήρες κείμενο των Δηλώσεων κινδύνων (H Statements) στο τμήμα 16. Τα όρια έκθεσης στο χώρο εργασίας παρατίθενται στο τμήμα 8, εφόσον είναι διαθέσιμα.

Άλλες πληροφορίες

ΤΜΗΜΑ 4: ΜΈΤΡΑ ΠΡΏΤΩΝ ΒΟΗΘΕΙΩΝ

4.1. Περιγραφή των μέτρων πρώτων βοηθειών

Γενικές πληροφορίες:

Σε περίπτωση ατυχήματος: Επικοινωνήστε με έναν γιατρό ή με τις πρώτες βοήθειες και έχετε μαζί σας την ετικέτα ή αυτό το δελτίο δεδομένων ασφαλείας.
Επικοινωνήστε με έναν γιατρό εάν έχετε αμφιβολίες για την κατάσταση του τραυματία ή εάν τα συμπτώματα επιμένουν. Μην δίνετε ποτέ νερό ή άλλο υγρό σε αναίσθητο άτομο.

Εισπνοή:

Σε περίπτωση δυσκολιών ή ερεθισμών της αναπνευστικής οδού: Μεταφέρετε το επηρεασμένο άτομο στον καθαρό αέρα και παραμείνετε μαζί του/της.

Επαφή με το δέρμα:

Είναι σημαντικό να ξεπλύνετε για μεγάλο χρονικό διάστημα – τουλάχιστον 30 λεπτά. Μπορεί να χρειαστεί να ξεπλύνετε για αρκετές ώρες. Χρησιμοποιήστε μια άνετη θερμοκρασία νερού (20-30 °C). Επικοινωνήστε με τις Πληροφορίες Δηλητηριάσεων/ιατρό/νοσοκομείο για περαιτέρω συμβουλές σχετικά με την παρακολούθηση και τη θεραπεία.

Αφαιρέστε αμέσως το μολυσμένο ρουχισμό και τα υποδήματα. Βεβαιωθείτε ότι η περιοχή του δέρματος που έχει εκτεθεί στο υλικό, έχει πλυθεί καλά με νερό και σαπούνι. Μπορεί να χρησιμοποιηθεί προϊόν καθαρισμού για το δέρμα. ΜΗΝ χρησιμοποιείτε διαλύτες ή διαλυτικά μέσα.

Εάν παρατηρηθεί ερεθισμός του δέρματος: Συμβουλευθείτε/Επισκεφθείτε γιατρό.

Επαφή με τα μάτια:

ΣΕ ΠΕΡΙΠΤΩΣΗ ΕΠΑΦΗΣ ΜΕ ΤΑ ΜΑΤΙΑ: Ξεπλύνετε τα μάτια με άφθονο νερό ή αλατόνερο (20-30 °C) για τουλάχιστον 15 λεπτά και συνεχίστε μέχρι να σταματήσει ο ερεθισμός. Αφαιρέστε τυχόν φακούς επαφής. Βεβαιωθείτε ότι έχετε ξεπλύνει κάτω από τα άνω και κάτω βλέφαρα. Ζητήστε αμέσως ιατρική βοήθεια και συνεχίστε να ξεπλύνετε κατά τη μεταφορά.

Κατάποση:

Σε περίπτωση κατάποσης, επικοινωνήστε αμέσως με γιατρό. Εάν το άτομο έχει τις αισθήσεις του, δώστε του νερό. ΜΗΝ προσπαθήσετε να προκαλέσετε εμετό, εκτός εάν αυτό συνιστάται από γιατρό. Κρατήστε το κεφάλι προς τα κάτω για να αποτρέψετε την επιστροφή του εμετού στο στόμα και στο λαιμό. Αποτρέψτε το σοκ κρατώντας τον τραυματία ζεστό και ήρεμο. Ξεκινήστε αμέσως την ανάνηψη εάν σταματήσει η αναπνοή. Εάν έχει χάσει τις αισθήσεις του, κυλήστε τον τραυματία στη θέση ανάρρωσης. Καλέστε ένα ασθενοφόρο.

Εγκαύματα:

Δεν εφαρμόζεται

4.2. Σημαντικότερα συμπτώματα και επιδράσεις, άμεσες ή μεταγενέστερες

Καταστροφικές επιπτώσεις στους ιστούς: Αυτό το προϊόν περιέχει ουσίες με διαβρωτικές ιδιότητες για το δέρμα. Οι εισπνεόμενοι ατμοί ή αερολύματα μπορεί να προκαλέσουν δυσμενείς επιπτώσεις στους πνεύμονες, ερεθισμούς και εγκαύματα στα αναπνευστικά όργανα καθώς και βήχα. Η δερματική επαφή και η επαφή με τα μάτια προκαλούν μη αναστρέψιμα αποτελέσματα.

4.3. Ένδειξη οιασδήποτε απαιτούμενης άμεσης ιατρικής φροντίδας και ειδικής θεραπείας

ΣΕ ΠΕΡΙΠΤΩΣΗ έκθεσης ή πιθανής έκθεσης:

Συμβουλευθείτε/Επισκεφθείτε αμέσως γιατρό.

Ιατρικές πληροφορίες

Έχετε διαθέσιμο το δελτίο δεδομένων ασφαλείας ή την ετικέτα του προϊόντος.

ΤΜΗΜΑ 5: ΜΈΤΡΑ ΓΙΑ ΤΗΝ ΚΑΤΑΠΟΛΈΜΗΣΗ ΤΗΣ ΠΥΡΚΑΓΊΑΣ

5.1. Πυροσβεστικά μέσα

Δεν εφαρμόζεται

5.2. Ειδικοί κίνδυνοι που προκύπτουν από την ουσία ή το μείγμα

Η πυρκαγιά θα έχει ως αποτέλεσμα πυκνό καπνό. Η έκθεση σε προϊόντα καύσης μπορεί να βλάψει την υγεία σας. Οι κλειστοί περιέκτες που εκτίθενται στη φωτιά, πρέπει να ψύχονται με νερό. Μην επιτρέπετε στο νερό κατάσβεσης να εισχωρεί στο αποχετευτικό σύστημα και στα κοντινά επιφανειακά νερά.

Εάν το προϊόν εκτεθεί σε υψηλές θερμοκρασίες, όπως π.χ. σε περίπτωση πυρκαγιάς, παράγονται επικίνδυνες ενώσεις αποσύνθεσης. Αυτές είναι:

Μερικά οξείδια μετάλλων.

5.3. Συστάσεις για τους πυροσβέστες

Φοράτε αυτόνομη αναπνευστική συσκευή και προστατευτικό ρουχισμό για να αποφύγετε την επαφή. Σε περίπτωση άμεσης έκθεσης επικοινωνήστε με το Εθνικό Κέντρο Δηλητηριάσεων για να λάβετε περαιτέρω συμβουλές.

ΤΜΗΜΑ 6: ΜΈΤΡΑ ΓΙΑ ΤΗΝ ΑΝΤΙΜΕΤΏΠΙΣΗ ΤΥΧΑΊΑΣ ΈΚΛΥΣΗΣ

6.1. Προσωπικές προφυλάξεις, προστατευτικός εξοπλισμός και διαδικασίες έκτακτης ανάγκης

Αποφύγετε απευθείας επαφή με τις ουσίες έκχυσης.

Εξασφαλίστε επαρκή αερισμό, ειδικά σε περιορισμένους χώρους.

Οι μολυσμένες περιοχές μπορεί να είναι ολισθηρές.

6.2. Περιβαλλοντικές προφυλάξεις

Αποφύγετε την απόρριψη σε λίμνες, ρυάκια, υπονόμους κλπ.

Κρατήστε τα μη εξουσιοδοτημένα άτομα μακριά από τη στάλαγμα

6.3. Μέθοδοι και υλικά για περιορισμό και καθαρισμό

Οι διαρροές περιορίζονται και συλλέγονται με μη εύφλεκτο απορροφητικό υλικό, π.χ. άμμος, χώμα, βερμικουλίτης, γη διατόμων και τοποθετούνται σε δοχείο και απορρίπτονται σύμφωνα με τους ισχύοντες κανονισμούς.

Στο μέτρο του δυνατού, ο καθαρισμός πραγματοποιείται με κανονικά καθαριστικά. Αποφύγετε τη χρήση διαλυτών.

6.4. Παραπομπή σε άλλα τμήματα

Δείτε στο τμήμα 13 "Στοιχεία σχετικά με τη διάθεση" όσον αφορά το χειρισμό των αποβλήτων.

Δείτε στο τμήμα 8 «Έλεγχος έκθεσης/ατομική προστασία» για πληροφορίες σχετικά με τα προστατευτικά μέτρα.

ΤΜΗΜΑ 7: ΧΕΙΡΙΣΜΌΣ ΚΑΙ ΑΠΟΘΉΚΕΥΣΗ

7.1. Προφυλάξεις για ασφαλή χειρισμό

Αποφύγετε απευθείας επαφή με το προϊόν.

Δεν επιτρέπεται το κάπνισμα, το ποτό και η κατανάλωση φαγητού στον χώρο εργασίας.

Δείτε στο τμήμα 8 «Έλεγχος έκθεσης/ατομική προστασία» για πληροφορίες σχετικά με την προσωπική προστασία.

7.2. Συνθήκες για την ασφαλή φύλαξη, συμπεριλαμβανομένων τυχόν ασυμβίβαστων

Τα δοχεία που έχουν ανοιχτεί πρέπει να επανασφραγίζονται προσεκτικά και να διατηρούνται σε όρθια θέση για να αποφευχθεί η διαρροή.

Αποθηκεύεται σε περιέκτη με ανθεκτική εσωτερική επένδυση.

Απαιτήσεις συσκευασίας:

Να διατηρείται μόνο στην αρχική συσκευασία.

Συνθήκες αποθήκευσης:

Ξηρό, δροσερό και με καλό αερισμό

Μη συμβατά υλικά:

Δυνατά οξέα, ισχυρές βάσεις, δυνατά οξειδωτικά μέσα και δυνατοί παράγοντες καταβολισμού.

7.3. Ειδική τελική χρήση ή χρήσεις

Αυτό το προϊόν πρέπει να χρησιμοποιείται μόνο για εφαρμογές που αναφέρονται στο τμήμα 1.2.

ΤΜΗΜΑ 8: ΈΛΕΓΧΟΣ ΤΗΣ ΈΚΘΕΣΗΣ/ΑΤΟΜΙΚΉ ΠΡΟΣΤΑΣΊΑ

8.1. Παράμετροι ελέγχου

υδροξείδιο του καλίου;Καυστική ποτάσα;Καυστική ποτάσα

Όριο μακροχρόνιας έκθεσης (8 ώρες) (mg/m³): 2

Ανώτατη Οριακή Τιμή έκθεσης (δεκαπεντάλεπτης περιόδου) (mg/m³): 2

υδροξείδιο του νατρίου;Καυστική σόδα

Όριο μακροχρόνιας έκθεσης (8 ώρες) (mg/m³): 2

Ανώτατη Οριακή Τιμή έκθεσης (δεκαπεντάλεπτης περιόδου) (mg/m³): 2

ΟΡΙΑΚΕΣ ΤΙΜΕΣ ΕΚΘΕΣΗΣ ΧΗΜΙΚΩΝ ΠΑΡΑΓΟΝΤΩΝ & ΔΕΙΚΤΕΣ ΒΙΟΛΟΓΙΚΗΣ ΕΚΘΕΣΗΣ ΣΕ ΧΗΜΙΚΟΥΣ ΠΑΡΑΓΟΝΤΕΣ 2019 (Ελληνική νομοθεσία).

DNEL (Παράγωγο επίπεδο χωρίς επιπτώσεις)

υδροξείδιο του καλίου;Καυστική ποτάσα;Καυστική ποτάσα

Διάρκεια:	Οδός έκθεσης:	DNEL:
Μακροπρόθεσμα - Τοπικές επιδράσεις - Γενικός πληθυσμός	Εισπνοή	1 mg/m ³
Μακροπρόθεσμα - Τοπικές επιδράσεις - Υπάλληλοι	Εισπνοή	1 mg/m ³

υδροξείδιο του νατρίου;Καυστική σόδα

Διάρκεια:	Οδός έκθεσης:	DNEL:
Μακροπρόθεσμα - Συστημικές επιδράσεις - Γενικός πληθυσμός	Δερματική	2 %
Μακροπρόθεσμα - Συστημικές επιδράσεις - Υπάλληλοι	Δερματική	<2 %
Μακροπρόθεσμα - Τοπικές επιδράσεις - Γενικός πληθυσμός	Εισπνοή	1 mg/m ³
Μακροπρόθεσμα - Τοπικές επιδράσεις - Υπάλληλοι	Εισπνοή	1 mg/m ³

PNEC (Προβλεπόμενη συγκέντρωση χωρίς επιπτώσεις)

υδροξείδιο του νατρίου;Καυστική σόδα

Οδός έκθεσης:	Διάρκεια Έκθεσης:	PNEC:
Γλυκό νερό		6.4 mg/L
Θαλασσινό νερό		0.64 mg/L
Ίζημα γλυκού νερού		23 mg/kg TG
Περιοδική απελευθέρωση		3.1 mg/L
Περιοδική απελευθέρωση (Θαλασσινό νερό)		2.3 mg/kg TG
Σταθμός Ενεργού Ιλύος		51 mg/L
Χώμα		0.853 mg/kg TG

8.2. Έλεγχοι έκθεσης

Η συμμόρφωση με τις ισχύουσες οριακές τιμές επαγγελματικής έκθεσης θα πρέπει να ελέγχεται σε τακτική βάση.

Γενικές συστάσεις:

Δεν επιτρέπεται το κάπνισμα, το ποτό και η κατανάλωση φαγητού στον χώρο εργασίας.

Σενάρια έκθεσης:

Δεν εφαρμόζονται τα σενάρια έκθεσης για αυτό το προϊόν.

Όρια έκθεσης:

Οι επαγγελματίες χρήστες υπόκεινται στις νομικά καθορισμένες μέγιστες συγκεντρώσεις επαγγελματικής έκθεσης. Δείτε παραπάνω τις οριακές τιμές υγιεινής της εργασίας.

Κατάλληλα τεχνικά μέτρα:

Ο σχηματισμός ατμών πρέπει να διατηρείται στο ελάχιστο και κάτω από τις ισχύουσες οριακές τιμές (βλ. παραπάνω). Συνιστάται η εγκατάσταση τοπικού συστήματος εξάτμισης εάν η κανονική ροή αέρα στο χώρο εργασίας δεν είναι επαρκής. Βεβαιωθείτε ότι το πλύσιμο ματιών έκτακτης ανάγκης και τα ντους είναι ευδιάκριτα. Βεβαιωθείτε ότι οι σταθμοί πλύσης ματιών και τα ντους ασφαλείας βρίσκονται σε κοντινή απόσταση. Εφαρμόστε τυπικές προφυλάξεις κατά τη χρήση του προϊόντος. Αποφύγετε την εισπνοή ατμών.

Μέτρα υγιεινής:

Μετά από τη χρήση του προϊόντος και στο τέλος της εργάσιμης ημέρας, όλες οι εκτεθειμένες περιοχές του σώματος πρέπει να πλένονται σχολαστικά. Να δίνετε ιδιαίτερη προσοχή στα χέρια, τους αντιβραχίονες και το πρόσωπο.

Μέτρα προς αποφυγή περιβαλλοντικής έκθεσης:

Κρατήστε τα υλικά απόφραξης κοντά στο χώρο εργασίας. Εάν είναι δυνατόν, συλλέξτε τη διαρροή κατά τη διάρκεια της εργασίας.

Ξεχωριστά μέτρα προστασίας όπως ατομικός προστατευτικός εξοπλισμός

Γενικά:

Χρησιμοποιείτε μόνο προστατευτικό εξοπλισμό με σήμανση CE.

Αναπνευστική συσκευή:

Τύπος	Κατηγορία	Χρώμα	Πρότυπα	
Δεν απαιτείται αναπνευστική προστασία σε περίπτωση επαρκούς αερισμού				

Προστασία του δέρματος:

Συστήνεται	Τύπου/Κατηγορίας	Πρότυπα	
Πρέπει να γίνεται χρήση ειδικού ρουχισμού εργασίας	-	-	

Προστασία των χεριών:

Κατάσταση εργασίας	Υλικό γαντιών	Πάχος γαντιών (mm)	Χρόνοι αντοχής (λεπτά)	Πρότυπα	
Σε περίπτωση παρατεταμένης έκθεσης ή υψηλών συγκεντρώσεων	Ελαστικό νιτριλίου	0.4	> 480	EN374-2, EN16523-1, EN388	
Σε περίπτωση βραχυπρόθεσμης έκθεσης ή χαμηλών συγκεντρώσεων	Ελαστικό νιτριλίου	1,5	> 30	EN374-2, EN16523-1, EN388	

Προστασία για τα μάτια:

Τύπος	Πρότυπα	
Γυαλιά ασφαλείας με πλαϊνά προστατευτικά.	EN166	

ΤΜΗΜΑ 9: ΦΥΣΙΚΈΣ ΚΑΙ ΧΗΜΙΚΈΣ ΙΔΙΌΤΗΤΕΣ

9.1. Στοιχεία για τις βασικές φυσικές και χημικές ιδιότητες

Φυσική κατάσταση:

Υγρό

Χρώμα:

Απαλό κίτρινο

▼ **Οσμή / Όριο οσμής (ppm):**

Ήπιο

pH:

13.5

Πυκνότητα (g/cm³):

1,29 (20 °C)

Κινηματικό ιξώδες:

Δεν υπάρχουν διαθέσιμα δεδομένα.

Χαρακτηριστικά σωματιδίων:

Δεν εφαρμόζεται για υγρά.

Αλλαγές φάσης

Σημείο τήξεως/σημείο πήξεως (°C):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Σημείο/εύρος μαλάκυνσης (°C):

Δεν εφαρμόζεται για υγρά.

Σημείο βρασμού (°C):

100

Πίεση ατμού:

Δεν υπάρχουν διαθέσιμα δεδομένα.

Σχετική πυκνότητα ατμών :

Δεν υπάρχουν διαθέσιμα δεδομένα.

Θερμοκρασία αποσύνθεσης (°C):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Δεδομένα για τους κινδύνους πυρκαγιάς και έκρηξης

Σημείο ανάφλεξης (°C):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Ευφλεκτότητα (°C):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Θερμοκρασία αυτανάφλεξης (°C):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Όρια αναφλεξιμότητας (% v/v):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Διαλυτότητα

Διαλυτότητα στο νερό:

Πλήρως διαλυτή

Συντελεστής κατανομής σε n-οκτανόλη/νερό (LogKow):

Δεν υπάρχουν διαθέσιμα δεδομένα.

Διαλυτότητα στο λίπος (g/L):

Δεν υπάρχουν διαθέσιμα δεδομένα.

9.2. Άλλες πληροφορίες

Άλλες φυσικές και χημικές παράμετροι:

Δεν υπάρχουν διαθέσιμα δεδομένα.

Ιδιότητες οξειδωσης:

Δεν υπάρχουν διαθέσιμα δεδομένα.

ΤΜΗΜΑ 10: ΣΤΑΘΕΡΌΤΗΤΑ ΚΑΙ ΑΝΤΙΔΡΑΣΤΙΚΌΤΗΤΑ

10.1. Δραστικότητα

Δεν υπάρχουν διαθέσιμα δεδομένα.

10.2. Χημική σταθερότητα

Το προϊόν είναι σταθερό υπό τις συνθήκες που αναφέρονται στο τμήμα 7 «Χειρισμός και αποθήκευση».

10.3. Πιθανότητα επικίνδυνων αντιδράσεων

καμία γνωστή.

10.4. Συνθήκες προς αποφυγήν

καμία γνωστή.

10.5. Μη συμβατά υλικά

Δυνατά οξέα, ισχυρές βάσεις, δυνατά οξειδωτικά μέσα και δυνατοί παράγοντες καταβολισμού.

10.6. Επικίνδυνα προϊόντα αποσύνθεσης

Η θερμική αποσύνθεση μπορεί να παράγει διαβρωτικούς ατμούς.

ΤΜΗΜΑ 11: ΤΟΞΙΚΟΛΟΓΙΚΈΣ ΠΛΗΡΟΦΟΡΊΕΣ

11.1. Πληροφορίες για τις τάξεις κινδύνου, όπως ορίζονται στον κανονισμό (ΕΚ) αριθ. 1272/2008

Οξεία τοξικότητα

Όνομα ουσίας	υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα
Είδος:	Επίμυς, αρσενικό
Οδός έκθεσης:	Στοματική
Έλεγχος:	LD50
Αποτέλεσμα:	333 - 388 mg/kg

Όνομα ουσίας	υδροξείδιο του νάτριου;Καυστική σόδα
Αποτέλεσμα:	45.4 mg/L

Όνομα ουσίας	υδροξείδιο του νάτριου;Καυστική σόδα
Είδος:	Κουνέλι
Έλεγχος:	LD 10
Αποτέλεσμα:	500 mg/kg

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

Διάβρωση και ερεθισμός του δέρματος*

Όνομα ουσίας	iT.33 laundry booster pro
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Υψηλός ερεθισμός)

Όνομα ουσίας	υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Διάβρωση)

Όνομα ουσίας	υδροξείδιο του νάτριου;Καυστική σόδα
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Ερεθισμός)

Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες.

Σοβαρή βλάβη/ερεθισμός των ματιών*

Όνομα ουσίας	iT.33 laundry booster pro
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Προκαλεί σοβαρή οφθαλμική βλάβη)

Όνομα ουσίας	υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Υψηλή διάβρωση)

Όνομα ουσίας	υδροξείδιο του νάτριου;Καυστική σόδα
Μέθοδος ελέγχου:	ΟΟΣΑ 405
Είδος:	Κουνέλι
Αποτέλεσμα:	Παρατηρήθηκαν δυσμενείς επιπτώσεις (Διάβρωση)

Προκαλεί σοβαρή οφθαλμική βλάβη.

Ευαισθητοποίηση του αναπνευστικού

Όνομα ουσίας	υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα
Αποτέλεσμα:	Δεν παρατηρήθηκαν δυσμενείς επιπτώσεις (Δεν Μη)

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

Ευαισθητοποίηση του δέρματος

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

Μεταλλαξιγένεση γεννητικών κυττάρων*

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

Καρκινογένεση*

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

Τοξικότητα για την αναπαραγωγή*

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

STOT-εφάπαξ έκθεση*

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

STOT-επανεξιλημμένη έκθεση*

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

τοξικότητα αναρρόφησης

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

11.2. Πληροφορίες για άλλους τύπους επικινδυνότητας

Μακροπρόθεσμες επιπτώσεις

Καταστροφικές επιπτώσεις στους ιστούς: Αυτό το προϊόν περιέχει ουσίες με διαβρωτικές ιδιότητες για το δέρμα. Οι εισπνεόμενοι ατμοί ή αερολύματα μπορεί να προκαλέσουν δυσμενείς επιπτώσεις στους πνεύμονες, ερεθισμούς και εγκαύματα στα αναπνευστικά όργανα καθώς και βήχα. Η δερματική επαφή και η επαφή με τα μάτια προκαλούν μη αναστρέψιμα αποτελέσματα.

Ιδιότητες ενδοκρινικής διαταραχής

Αυτό το μείγμα/προϊόν δεν περιέχει ουσίες που θεωρούνται ότι έχουν ιδιότητες που διαταράσσουν τις ορμόνες σε σχέση με την υγεία.

Άλλες πληροφορίες

καμία γνώση.

ΤΜΗΜΑ 12: ΟΙΚΟΛΟΓΙΚΈΣ ΠΛΗΡΟΦΟΡΊΕΣ

12.1. Τοξικότητα

Όνομα ουσίας	iT.33 laundry booster pro
Είδος:	Andere waterorganismen, Leuciscus idus
Διαμέρισμα:	Νερό
Διάρκεια:	96 Ώρες
Έλεγχος:	LC50
Αποτέλεσμα:	>100 mg/L

Όνομα ουσίας	υδροξείδιο του νατρίου;Καυστική σόδα
Είδος:	Βακτήρια, Pseudomonas putida
Έλεγχος:	EC0
Αποτέλεσμα:	>100 mg/L

Όνομα ουσίας	υδροξείδιο του νατρίου;Καυστική σόδα
Είδος:	Δαφνία, Ceriodaphnia dubia
Διάρκεια:	48 Ώρες
Αποτέλεσμα:	40.4 mg/L

Όνομα ουσίας	υδροξείδιο του νατρίου;Καυστική σόδα
Μέθοδος ελέγχου:	ΟΟΣΑ 203
Είδος:	Ψάρι, Oncorhynchus mykiss
Διάρκεια:	96 Ώρες
Έλεγχος:	LC50
Αποτέλεσμα:	45.4 mg/L

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

12.2. Ανθεκτικότητα και ικανότητα αποικοδόμησης

Βάσει των διαθέσιμων δεδομένων, τα κριτήρια ταξινόμησης δεν πληρούνται.

12.3. Δυνατότητα βιοσυσσώρευσης

Όνομα ουσίας	υδροξείδιο του νατρίου;Καυστική σόδα

Συμμορφώνεται με τον Κανονισμό (ΕΚ) αριθ. 1907/2006 (REACH) όπως τροποποιήθηκε από τον Κανονισμό (ΕΥ) αριθ. 2020/878

Συμπέρασμα: Δεν αναμένεται βιοσυσσώρευση

12.4. Κινητικότητα στο έδαφος

Δεν υπάρχουν διαθέσιμα δεδομένα.

12.5. Αποτελέσματα της αξιολόγησης ABT και αΑαΒ

Αυτό το μείγμα/προϊόν δεν περιέχει ουσίες που θεωρείται ότι πληρούν τα κριτήρια ταξινόμησης τους ως ABT και/ή αΑαΒ.

12.6. Ιδιότητες ενδοκρινικής διαταραχής

Αυτό το μείγμα/προϊόν δεν περιέχει ουσίες που θεωρούνται ότι έχουν ιδιότητες ενδοκρινικής διαταραχής σε σχέση με το περιβάλλον.

12.7. Άλλες αρνητικές επιπτώσεις

καμία γνώση.

ΤΜΗΜΑ 13: ΣΤΟΙΧΕΪΑ ΣΧΕΤΙΚΆ ΜΕ ΤΗ ΔΙΉΘΕΣΗ

13.1. Μέθοδοι διαχείρισης αποβλήτων

Το προϊόν καλύπτεται από τους κανονισμούς για τα επικίνδυνα απόβλητα. (*)

HP 8 - Διαβρωτικό

Η δοκιμή δεν είναι σχετική ή δεν είναι δυνατή λόγω της φύσης του προϊόντος.

Κανονισμός (ΕΕ) αριθ. 1357/2014 ΤΗΣ ΕΠΙΤΡΟΠΗΣ της 18ης Δεκεμβρίου 2014 για τα απόβλητα.

Κωδικός ΕΚΑ:

20 01 29* απορρυπαντικά που περιέχουν επικίνδυνες ουσίες

Μολυσμένη συσκευασία

Συσκευασίες που περιέχουν υπολείμματα από το προϊόν πρέπει να διατίθενται με τον ίδιο τρόπο όπως το προϊόν.

ΤΜΗΜΑ 14: ΠΛΗΡΟΦΟΡΪΕΣ ΣΧΕΤΙΚΆ ΜΕ ΤΗ ΜΕΤΑΦΟΡΆ

	14.1 UN No	14.2 Κατάλληλη ονομασία αποστολής	14.3 Κλάση(εις) κινδύνου	14.4 PG*	14.5. Ενν**	Άλλες πληροφορ ίες:
ADR	UN1719	ΚΑΥΣΤΙΚΟ ΑΛΚΑΛΙΚΟ ΥΓΡΟ, Ε.Α.Ο. (υδροξείδιο του καλίου καυστική ποτάσα;Καυστική ποτάσα, υδροξείδιο του νάτριου;Καυστική σόδα)	Κλάση: 8 Ετικέτες: 8 Κωδικός Ταξινόμησης: C5 	II	Όχι	Περιορισμέ νες ποσότητες: 1 L Κατηγορία μεταφοράς: (E) Βλέπε παρακάτω για πρόσθετες πληροφορί ες.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Κλάση: 8 Ετικέτες: 8 Κωδικός Ταξινόμησης: C5 	II	Όχι	Περιορισμέ νες ποσότητες: 1 L EmS: F-A S- B Βλέπε

	14.1 UN No	14.2 Κατάλληλη ονομασία αποστολής	14.3 Κλάση(εις) κινδύνου	14.4 PG*	14.5. Ενν**	Άλλες πληροφορίες:
						παρακάτω για πρόσθετες πληροφορίες.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Κλάση: 8 Ετικέτες: 8 Κωδικός Ταξινόμησης: C5 	II	Όχι	Βλέπε παρακάτω για πρόσθετες πληροφορίες.

* Ομάδα συσκευασίας

** Περιβαλλοντικοί κίνδυνοι

Επιπρόσθετες πληροφορίες

Αυτό το προϊόν εμπίπτει στο πεδίο εφαρμογής των κανονισμών μεταφοράς επικίνδυνων εμπορευμάτων.

ADR / Βλ. Πίνακα Α, Ενότητα 3.2.1 για οποιαδήποτε πληροφορία σχετικά με ειδικές διατάξεις, απαιτήσεις ή προειδοποιήσεις σε σχέση με τη μεταφορά. Βλέπε ενότητα 5.4.3, για γραπτές οδηγίες σχετικά με τον μετρίασμό των ζημιών σε σχέση με περιστατικά ή ατυχήματα κατά τη μεταφορά.

IMDG / Βλ. Ενότητα 3.2.1 για οποιαδήποτε πληροφορία σχετικά με ειδικές διατάξεις, απαιτήσεις ή προειδοποιήσεις σε σχέση με τη μεταφορά.

IATA / Βλ. Πίνακα 4.2 για οποιαδήποτε πληροφορία σχετικά με ειδικές διατάξεις, απαιτήσεις ή προειδοποιήσεις σε σχέση με τη μεταφορά.

14.6. Ειδικές προφυλάξεις για τον χρήστη

Δεν εφαρμόζεται

14.7. Θαλάσσιες μεταφορές χύδην σύμφωνα με τις πράξεις του IMO

Δεν υπάρχουν διαθέσιμα δεδομένα.

ΤΜΗΜΑ 15: ΣΤΟΙΧΕΪΑ ΝΟΜΟΘΕΤΙΚΟΫ ΧΑΡΑΚΤΗΡΑ

15.1. Κανονισμοί/νομοθεσία σχετικά με την ασφάλεια, την υγεία και το περιβάλλον για την ουσία ή το μείγμα

Περιορισμοί στην εφαρμογή:

Μόνο για επαγγελματική χρήση.

Άτομα κάτω των 18 ετών δεν πρέπει να εκτίθενται σε αυτό το προϊόν.

Απαιτήσεις για συγκεκριμένη εκπαίδευση:

Δεν υπάρχουν συγκεκριμένες απαιτήσεις

SEVESO - ΚΑΤΗΓΟΡΪΕΣ ΚΙΝΔΥΝΟΥ / ΚΑΤΟΝΟΜΑΖΟΜΕΝΕΣ ΕΠΙΚΙΝΔΥΝΕΣ ΟΥΣΪΕΣ:

Δεν εφαρμόζεται

Επιπρόσθετες πληροφορίες:

Δεν εφαρμόζεται

Πηγές:

Οδηγία 94/33/ΕΚ του Συμβουλίου της 22ας Ιουνίου 1994 για την προστασία των νέων κατά την εργασία.

Κανονισμός (ΕΚ) αριθ. 648/2004 του Ευρωπαϊκού Κοινοβουλίου και του Συμβουλίου, της 31ης Μαρτίου 2004, σχετικά με τα απορρυπαντικά.

Κανονισμός (ΕΕ) αριθ. 1357/2014 ΤΗΣ ΕΠΙΤΡΟΠΗΣ της 18ης Δεκεμβρίου 2014 για τα απόβλητα.

Κανονισμός (ΕΚ) αριθ. 1272/2008 του Ευρωπαϊκού Κοινοβουλίου και του Συμβουλίου, της 16ης Δεκεμβρίου 2008, για την ταξινόμηση, την επισήμανση και τη συσκευασία των ουσιών και των μειγμάτων (CLP).

Κανονισμός (ΕΚ) αριθ. 1907/2006 του Ευρωπαϊκού Κοινοβουλίου και του Συμβουλίου, της 18ης Δεκεμβρίου 2006, για την καταχώριση, την αξιολόγηση, την αδειοδότηση και τους περιορισμούς των χημικών προϊόντων (REACH).

15.2. Αξιολόγηση χημικής ασφάλειας

Όχι

ΤΜΗΜΑ 16: ΆΛΛΕΣ ΠΛΗΡΟΦΟΡΊΕΣ

Πλήρες κείμενο των Δηλώσεων κινδύνων (H Statements) όπως αναφέρεται στο τμήμα 3

H290, Μπορεί να διαβρώσει μέταλλα.
H302, Επιβλαβές σε περίπτωση κατάποσης.
H314, Προκαλεί σοβαρά δερματικά εγκαύματα και οφθαλμικές βλάβες.
H315, Προκαλεί ερεθισμό του δέρματος.
H318, Προκαλεί σοβαρή οφθαλμική βλάβη.
H319, Προκαλεί σοβαρό οφθαλμικό ερεθισμό.

Συντομογραφίες και αρκτικόλεξα

ADN = Ευρωπαϊκή Συμφωνία σχετικά με τις Διεθνείς Μεταφορές Επικίνδυνων Εμπορευμάτων μέσω της Εσωτερικής Ναυσιπλοΐας
ADR = Η Ευρωπαϊκή Συμφωνία Ευρωπαϊκή Συμφωνία για τις Διεθνείς Οδικές Μεταφορές Επικίνδυνων Εμπορευμάτων
ATE = Εκτίμηση της οξείας τοξικότητας
BCF = Συντελεστής βιοσυγκέντρωσης
CAS = Υπηρεσία Χημικής Ταυτοποίησης
CE = Ευρωπαϊκή Συμμόρφωση
CLP = Κανονισμός για την Ταξινόμηση, Επισήμανση και Συσκευασία [Κανονισμός (ΕΚ) υπ' αριθ. 1272/2008]
CSA = Αξιολόγηση Χημικής Ασφάλειας
CSR = Αναφορά Χημικής Ασφάλειας
DMEL = Παράγωγο Επίπεδο με Ελάχιστες Επιπτώσεις
DNEL = Παράγωγο Επίπεδο Χωρίς Επιπτώσεις
EINECS = Ευρωπαϊκός Κατάλογος των Υφιστάμενων Εμπορικών Χημικών Ουσιών
EKA = Ευρωπαϊκός Κατάλογος Αποβλήτων
ES = Σενάριο Έκθεσης
Δήλωση EUH = Ειδική Δήλωση κινδύνου του CLP
ΔΥΠ (GWP) = Δυναμικό υπερθέρμανσης του πλανήτη»
EuPCS = Ευρωπαϊκό σύστημα κατηγοριοποίησης προϊόντων
GHS = Το δυναμικό υπερθέρμανσης του πλανήτη
IATA = Διεθνής Ένωση Αερομεταφορών
IBC = Εμπορευματοκιβώτιο Μεσαίας Χωρητικότητας Χύδην Φορτίου
IMDG = Διεθνής Ναυτιλιακός Κώδικας Επικίνδυνων Εμπορευμάτων
LogPow = Λογάριθμος του συντελεστή κατανομής οκτανόλης/νερού
MARPOL 73/78 = Διεθνής Σύμβαση για την Πρόληψη της Ρύπανσης από τα Πλοία, 1973 όπως τροποποιήθηκε από το Πρωτόκολλο 1978. ("Marpol" = θαλάσσια ρύπανση)
ΟΟΣΑ = Οργανισμός για Οικονομική Συνεργασία και Ανάπτυξη
PBT (ABT) = Ανθεκτικά, Βιοσυσσωρεύσιμα και Τοξικά
PNEC = Προβλεπόμενη Συγκέντρωση Χωρίς Επιπτώσεις
RID = Κανονισμοί για τις Διεθνείς Σιδηροδρομικές Μεταφορές Επικίνδυνων Εμπορευμάτων
RRN = Αριθμός Καταχώρισης REACH
SCL = Ειδικό Όριο Συγκέντρωσης
SVHC = Ουσίες που Προκαλούν Πολύ Μεγάλη Ανησυχία
STOT-RE = Ειδική τοξικότητα οργάνου-στόχου - Επανεξιλημμένη έκθεση
STOT-SE = Ειδική τοξικότητα οργάνου-στόχου - Μοναδική έκθεση
TWA = Μέση χρονικά σταθμισμένη
UVCB = Ουσίες άγνωστης ή ασαφούς σύνθεσης, προϊόντα πολύπλοκων αντιδράσεων ή βιολογικά υλικά

Συμμορφώνεται με τον Κανονισμό (ΕΚ) αριθ. 1907/2006 (REACH) όπως τροποποιήθηκε από τον Κανονισμό (ΕΥ) αριθ. 2020/878

ΠΟΕ = Πτητικές Οργανικές Ενώσεις

αΑαΒ = άκρως Ανθεκτικά και άκρως Βιοσυσσωρεύσιμα

Επιπρόσθετες πληροφορίες

Η ταξινόμηση της ουσίας/του μείγματος όσον αφορά τους κινδύνους για την υγεία είναι σύμφωνα με τις μεθόδους υπολογισμού που αναφέρονται στον Κανονισμό (ΕΚ) αριθ. 1272/2008 (CLP).

Το φυλλάδιο δεδομένων ασφαλείας επικυρώνεται από

Quality & Compliance

Άλλα

Μια αλλαγή (αναφορικά με την τελευταία σημαντική αλλαγή) επισημαίνεται με ένα τρίγωνο.

Οι πληροφορίες σε αυτό το δελτίο δεδομένων ασφαλείας ισχύουν μόνο για το συγκεκριμένο προϊόν (αναφέρεται στην ενότητα 1) και δεν είναι απαραίτητα σωστές για χρήση με άλλα χημικά/προϊόντα.

Συνιστάται να παραδώσετε αυτό το δελτίο δεδομένων ασφαλείας στον ίδιο τον χρήστη του προϊόντος. Οι πληροφορίες σε αυτό το δελτίο δεδομένων ασφαλείας δεν μπορούν να χρησιμοποιηθούν ως προδιαγραφές προϊόντος.

Χώρα-γλώσσα: GR-el

SIGURNOSNO-TEHNIČKOG LISTA

iT.33 laundry booster pro

ODJELJAK 1.: IDENTIFIKACIJA TVARI/SMJESE I PODACI O TVRTKI/PODUZECU

1.1. Identifikacijska oznaka proizvoda

Tržišni naziv:

iT.33 laundry booster pro

Jedinstveni identifikator formule (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevantne identificirane uporabe tvari ili smjese i uporabe koje se ne preporučuju

Relevantne identificirane namjene tvari ili smjese:

Deterdženti i sredstva za čišćenje (uključujući one na bazi otapala)

Samo za profesionalne korisnike.

Namjene koje se ne preporučuju:

Nitko poznat.

1.3. Podaci o dobavljaču koji isporučuje sigurnosno-tehnicki list

Kompanija i adresa:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Izmjena:

14. 08. 2025.

SDS inacija:

2.0

Datum prethodnog izdanja:

28. 07. 2025. (1.0)

1.4. Broj telefona za izvanredna stanja

CKO - Centar za kontrolu otrovanja, TEL: +3851 2348 342

Pogledajte Odjeljak 4: "Mjere prve pomoći"

ODJELJAK 2.: IDENTIFIKACIJA OPASNOSTI

Klasifikovano prema Uredbi (EC) br. 1272/2008 (CLP).

2.1. Razvrstavanje tvari ili smjese

Met. Corr. 1; H290, Može nagrizzati metale.
Skin Corr. 1A; H314, Uzrokuje teške opekline kože i ozljede oka.
Eye Dam. 1; H318, Uzrokuje teške ozljede oka.

2.2. Elementi označivanja

Piktogrami opasnosti:



Oznaka opasnosti:

Opasnost

Oznake upozorenja:

Može nagrizzati metale. (H290)

Uzrokuje teške opekline kože i ozljede oka. (H314)

Oznake obavijesti:

▼ *Opcenito:*

Nije primjenljivo.

Sprječavanje:

Ne udisati pare/maglu. (P260)

Nositi zaštita za oči/zaštitne rukavice/zaštitna odjeća. (P280)

▼ *Reakcija:*

U SLUČAJU DODIRA S KOŽOM (ili kosom): odmah skinuti svu zagađenu odjeću. Isprati kožu vodom ili tuširanjem. (P303+P361+P353)

U SLUČAJU DODIRA S OČIMA: oprezno ispirati vodom nekoliko minuta. Ukloniti kontaktne leće ako ih nosite i ako se one lako uklanjaju. Nastaviti ispirati. (P305+P351+P338)

Odmah nazvati CENTAR ZA KONTROLU OTROVANJA/liječnika. (P310)

Postupanje:

Skladištiti u spremniku s otpornom unutarnjom oblogom. (P406)

Odlaganje:

Odložiti sadržaj/spremnik u skladu s lokalnim propisima. (P501)

Identifikacija tvari koje su primarno odgovorne za veće opasnosti po zdravlje:

kalijev hidroksid;kaustična potaša

natrijev hidroksid;kaustična soda

Dodatno označavanje:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Ostale opasnosti

Dodatna upozorenja:

Ova mješavina/proizvod ne sadrži nikakve tvari za koje se smatra da ispunjavaju kriterije po kojima ih se klasificira kao PBT i/ili vPvB.

Ovaj proizvod ne sadrži nikakve tvari koje se smatraju endokrinim disruptorima u skladu s kriterijima navedenim u Delegiranoj uredbi Komisije (EU) 2017/2100 ili Uredbi Komisije (EU) 2023/707.

ODJELJAK 3.: SASTAV/INFORMACIJE O SASTOJCIMA

3.1. Tvari

Nije primjenljivo. Ovaj proizvod je mješavina.

3.2. ▼ Smjese

Proizvod/sastojak	Identifikacijske oznake	% w/w	Razvrstavanje	Nazna ke
kalijev hidroksid;kaustična potaša	CAS br.: 1310-58-3 EZ br.: 215-181-3 REACH: Indeksni br.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natrijev hidroksid;kaustična soda	CAS br.: 1310-73-2 EZ br.: 215-185-5 REACH: 01-2119457892-27-XXXX Indeksni br.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Pogledajte puni tekst H-fraza u odjeljak 16. Ograničenja vezana uz izlaganja na radnom mjestu navedena su u odjeljak 8, ako su dostupna.

Ostale informacije

-

ODJELJAK 4.: MJERE PRVE POMOCI

4.1. Opis mjera prve pomoci

Opće informacije:

U slučaju nezgode: Kontaktirajte liječnika ili službu za zbrinjavanje unesrećenih, a sa sobom ponesite etiketu s proizvoda ili ovaj sigurnosno-tehnički list.

Kontaktirajte liječnika ako niste sigurni kakvo je stanje izložene osobe ili ako ne dođe do povlačenja simptoma.

Osobi koja nije pri svijesti nikada nemojte davati da pije vodu ili nešto slično.

Udisanje:

Nakon poteškoća u disanju ili iritacija dišnih putova: Osobu izvedite na svjež zrak i ostanite uz nju.

Kontakt s kožom:

Dugotrajno ispirajte izloženo područje vodom - najmanje 30 minuta. Možda će biti potrebno ispirati nekoliko sati.

Koristite ugodnu temperaturu vode (20-30 °C). Kontaktirajte Informacije o otrovima/liječnika/bolnicu za daljnje savjete o praćenju i liječenju.

Odmah skinite kontaminiranu odjeću i obuću. Koža koja je došla u kontakt s materijalom mora se dobro oprati vodom i sapunom. Mogu se koristiti sredstva za čišćenje kože. NEMOJTE koristiti otapala ili razrjeđivače.

U slučaju nadražaja kože: zatražiti savjet/pomoć liječnika.

Kontakt s očima:

U slučaju dodira s očima: Oči ispirajte s dosta vode ili fiziološke otopine (20-30 °C) tijekom najmanje 30 minuta, dok se iritacija ne povuče. Izvadite kontaktne leće. Pazite da isperete oči i ispod gornjih i donjih kapaka. Odmah potražite medicinsku pomoć, a tijekom transporta nastavite ispiranje.

Gutanje:

U slučaju gutanja, odmah kontaktirajte liječnika. Ako je osoba pri svijesti, dajte joj piti vode. NEMOJTE pokušavati izazvati povraćanje, osim ako to ne preporučí liječnik. Glavu držite licem okrenutim prema dolje, kako ne bi došlo do vraćanja povraćenog sadržaja u usta i grlo. Spriječite razvoj stanja šoka tako što ćete povrijeđenu osobu utopiti i smirivati. Ako dođe do prestanka disanja, primijenite postupak oživljavanja disanjem usta na usta. Ako osoba nije pri svijesti, osobu okrenite na bok, a gornju nogu savijte u koljenu i kuku. Pozovite službu hitne pomoći.

Opekline:

Nije primjenljivo.

4.2. Najvažniji simptomi i ucinci, akutni i odgođeni

Oštećenje tkiva: Ovaj proizvod sadrži nagrizajuće tvari. Udisanje isparenja ili aerosola može uzrokovati oštećenje pluća, iritaciju i opekline dišnih organa, kao i kašalj. Nagrizajuće tvari uzrokuju ireverzibilna oštećenja očiju i kiseline opekline kože.

4.3. Navod o slučaju potrebe za hitnom liječničkom pomoći i posebnom obradom

U SLUČAJU izloženosti ili sumnje na izloženost:

Hitno zatražiti savjet/pomoć liječnika

Informacije za zdravstveno osoblje

Ponesite ovaj sigurnosno-tehnički list ili etiketu s materijala.

ODJELJAK 5.: MJERE ZA SUZBIJANJE POŽARA

5.1. Sredstva za gašenje

Nije primjenljivo.

5.2. Posebne opasnosti koje proizlaze iz tvari ili smjese

Zapaljenje će dovesti do stvaranja gustog dima. Izlaganje tvarima koje nastanu kao rezultat sagorijevanja može naškoditi zdravlju. Zatvorene spremnike, koji su bili izloženi vatri, treba ohladiti vodom. Nemojte dopustiti ulijevanje vode koja se koristila za gašenje požara u kanalizacijske odvođe ili u druge vodene tokove.

Ako se proizvod izloži visokim temperaturama, poput onih koje se razvijaju u slučaju požara, dolazi do otpuštanja tvari koje nastaju kao rezultat razgradnje. Te tvari su:

Neki metalni oksidi

5.3. Savjeti za gasitelje požara

Kako biste izbjegli kontakt s tvari, nosite samostalni uređaj za disanje i zaštitno odijelo.

ODJELJAK 6.: MJERE KOD SLUCAJNOG ISPUŠTANJA

6.1. Osobne mjere opreza, zaštitna oprema i postupci za izvanredna stanja

Izbjegavajte direktni kontakt s prosutom tvari.

Osigurajte odgovarajuću ventilaciju, posebno u zatvorenim prostorima.

Kontaminirani prostor može biti sklizak.

6.2. Mjere zaštite okoliša

Izbjegavajte izlijevanje tvari u jezera, riječne tokove, kanalizacijske odvođe i slično.

Držite neovlaštene osobe dalje od izlijevanja

6.3. Metode i materijal za sprečavanje širenja i čišćenje

Zadržite i sakupite prolivenu tekućinu nezapaljivim, upijajućim materijalom npr. pijeskom, zemljom, vermikulitom ili dijatomejskom zemljom i stavite u spremnik za odlaganje u skladu s lokalnim propisima.

Koliko god je to moguće, čišćenje treba obavljati pomoću uobičajenih sredstava za čišćenje. Treba izbjegavati uporabu otapala.

6.4. Uputa na druge odjeljke

Pogledajte odjeljak o 13 "Zbrinjavanje", koji se odnosi na rukovanje otpadom.

Informacije o mjerama zaštite potražite u odjeljku o 8 'Nadzor nad izloženošću/osobna zaštita'.

ODJELJAK 7.: RUKOVANJE I SKLADIŠTENJE

7.1. Mjere opreza za sigurno rukovanje

Izbjegavajte direktni kontakt s proizvodom.

U radnim prostorijama nije dopušteno pušenje, konzumiranje hrane ili napitaka, kao ni čuvanje duhanskih proizvoda, hrane ili napitaka.

Informacije o osobnoj zaštiti potražite u odjeljku o 'Nadzor nad izloženosti/osobna zaštita'.

7.2. Uvjeti sigurnog skladištenja, uzimajući u obzir moguće inkompatibilnosti

Otvoreni spremnici moraju se pažljivo ponovno hermetički zatvoriti i čuvati uspravno kako bi se spriječilo curenje. Skladištiti u spremniku s otpornom unutarnjom oblogom.

Kompatibilnost ambalaže:

Čuvati samo u originalnom pakiranju.

Uvjeti skladištenja:

Suho, hladno i dobro prozračeno

Inkompatibilni materijali:

Jake kiseline, jake lužine, jaka oksidirajuća sredstva i jaka reduksijska sredstva.

7.3. Posebna krajnja uporaba ili uporabe

Ovaj proizvod treba se koristiti isključivo za namjene navedene u odjeljak 1.2.

ODJELJAK 8.: NADZOR NAD IZLOŽENOŠĆU/OSOBNJA ZAŠTITA

8.1. Nadzorni parametri

kalijev hidroksid;kaustična potaša

Kratkotrajna granična vrijednost izloženosti (15 minuta) (KGVI) (mg/m³): 2

natrijev hidroksid;kaustična soda

Kratkotrajna granična vrijednost izloženosti (15 minuta) (KGVI) (mg/m³): 2

NN 1/2021 (10.01.2021.), Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima

DNEL

kalijev hidroksid;kaustična potaša

Trajanje:	Način izlaganja:	DNEL:
Dugoročno-Lokalni učinci-Opća populacija	Udisanje	1 mg/m ³
Dugoročno-Lokalni učinci-Radnici	Udisanje	1 mg/m ³

natrijev hidroksid;kaustična soda

Trajanje:	Način izlaganja:	DNEL:
Dugoročno-Sustavni učinci-Opća populacija	Preko kože	2 %
Dugoročno-Sustavni učinci-Radnici	Preko kože	<2 %
Dugoročno-Lokalni učinci-Opća populacija	Udisanje	1 mg/m ³
Dugoročno-Lokalni učinci-Radnici	Udisanje	1 mg/m ³

PNEC

natrijev hidroksid;kaustična soda

Način izlaganja:	Trajanje izloženosti:	PNEC:
Morska voda		0.64 mg/L
Postrojenje za tretiranje otpadne vode		51 mg/L
Povremeno ispuštanje		3.1 mg/L
Povremeno ispuštanje (morska voda)		2.3 mg/kg TG

Slatka voda		6.4 mg/L
Slatkovodni sediment		23 mg/kg TG
Tlo		0.853 mg/kg TG

8.2. Nadzor nad izloženošću

Redovito se treba provjeravati poštujte li se propisana ograničenja koja se odnose na izlaganje.

Opće preporuke:

U radnim prostorijama nije dopušteno pušenje, konzumiranje hrane ili napitaka, kao ni čuvanje duhanskih proizvoda, hrane ili napitaka.

Uvjeti pri izlaganju:

Za ovaj proizvod nisu implementirani scenariji izloženosti.

Ograničenja vezana uz izlaganje:

Poduzetnici trebaju raditi u skladu sa zakonskim propisima o radnom okruženju koji se odnose na maksimalne koncentracije tvari kojima se radnici smiju izlagati.

Odgovarajuće tehničke mjere:

Stvaranje pare mora biti minimalno i ispod trenutnih graničnih vrijednosti (vidi gore). Preporučuje se ugradnja lokalnog ispušnog sustava ako normalan protok zraka u radnoj sobi nije dovoljan. Osigurajte da stanice za hitno ispiranje očiju i tuševi budu jasno označeni.

Osigurajte da su stanice za ispiranje očiju i sigurnosni tuševi na dohvat ruke.

Primijenite standardne mjere opreza tijekom uporabe proizvoda. Izbjegavati udisanje para.

Higijenske mjere:

Kad god pravite stanku tijekom uporabe ovog proizvoda, kao i kada završite s uporabom, sve izložene dijelove tijela morate oprati. Obratite posebnu pozornost na ruke, podlaktice i lice.

Mjere opreza za izbjegavanje zagađenja okoliša:

Spriječite širenje materijala dalje od radnog mjesta. Ako je to moguće, prosutu tvar sakupljajte tijekom rada.

Osobne mjere zaštite kao što je osobna zaštitna oprema

Opcenito:

Koristite isključivo zaštitnu opremu s oznakom CE.

Oprema za disanje:

Tip	Klasa	Boje	Norme	
Zaštita dišnog sustava nije potrebna u slučaju odgovarajuće ventilacije				

Zaštita kože:

Preporučuje se	Tip/Kategorija	Norme	
Treba koristiti posebnu radnu odjeću	-	-	

Zaštita ruku:

Radna situacija	Tvar	Minimalna debljina sloja (mm)	Vrijeme prodiranja kemikalije (min.)	Norme	
U slučaju produljenog izlaganja ili visokih koncentracija	Nitrilna guma	0.4	> 480	EN374-2, EN16523-1, EN388	

Radna situacija	Tvar	Minimalna debljina sloja (mm)	Vrijeme prodiranja kemikalije (min.)	Norme	
U slučaju kratkotrajne izloženosti ili niskih koncentracija	Nitrilna guma	1,5	> 30	EN374-2, EN16523-1, EN388	

Oci:

Tip	Norme	
Nosite sigurnosne naočale s bočnim štitnicima.	EN166	

ODJELJAK 9.: FIZIKALNA I KEMIJSKA SVOJSTVA

9.1. Informacije o osnovnim fizikalnim i kemijskim svojstvima

Oblik:

Tekućina

Boje:

Svijetložuta

▼ Miris / Prag mirisa (ppm):

Blag

pH:

13.5

Gustoca (g/cm³):

1,29 (20 °C)

Kinematička viskoznost:

Podaci nisu dostupni.

Svojstva čestica:

Ne primjenjuje se na tekućine.

Izmjene faza

talište/ledište (°C):

Podaci nisu dostupni.

Točka/raspon temperatura pri kojima dolazi do omekšavanja (°C):

Ne primjenjuje se na tekućine.

Točka ključanja (°C):

100

Tlak isparenja:

Podaci nisu dostupni.

relativna gustoća pare:

Podaci nisu dostupni.

Temperatura raspada (°C):

Podaci nisu dostupni.

Podaci o opasnostima od požara i eksplozije

Točka zapaljenja (°C):

Podaci nisu dostupni.

Zapaljivost (°C):

Podaci nisu dostupni.

Temperatura samozapaljenja (°C):

Podaci nisu dostupni.

Eksplzivni prag (Vol %):

Podaci nisu dostupni.

Topljivost

Topljivost u vodi:

Potpuno topiva

n-oktanol/vodeni koeficijent (LogKow):

Podaci nisu dostupni.

Topljivost u masnoci (g/L):

Podaci nisu dostupni.

9.2. Ostale informacije

Drug fizikalni i kemijski parametri:

Podaci nisu dostupni.

Oksidirajuća svojstva:

Podaci nisu dostupni.

ODJELJAK 10.: STABILNOST I REAKTIVNOST

10.1. Reaktivnost

Podaci nisu dostupni.

10.2. Kemijska stabilnost

Proizvod je stabilan pod uvjetima koji su navedeni u odjeljku 7 "Rukovanje i skladištenje".

10.3. Mogućnost opasnih reakcija

Nitko poznat.

10.4. Uvjeti koje treba izbjegavati

Nitko poznat.

10.5. Inkompatibilni materijali

Jake kiseline, jake lužine, jaka oksidirajuća sredstva i jaka reduksijska sredstva.

10.6. Opasni proizvodi raspadanja

Toplinska razgradnja može proizvesti korozivne pare

ODJELJAK 11.: TOKSIKOLOŠKE INFORMACIJE

11.1. Informacije o razredima opasnosti kako su definirani u Uredbi (EZ) br. 1272/2008

Autna toksičnost

Proizvod/sastojak	kalijev hidroksid;kaustična potaša
Vrste:	Štakor, mužjak
Način izlaganja:	Oralno
Test:	LD50
Rezultat:	333 - 388 mg/kg

Proizvod/sastojak	natrijev hidroksid;kaustična soda

Rezultat: 45.4 mg/L

Proizvod/sastojak natrijev hidroksid;kaustična soda
Vrste: Kunić
Test: LD lo
Rezultat: 500 mg/kg

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Nagrizanje/iritacija kože

Proizvod/sastojak iT.33 laundry booster pro
Rezultat: Uočeni štetni učinci (Jako iritirajuće)

Proizvod/sastojak kalijev hidroksid;kaustična potaša
Rezultat: Uočeni štetni učinci (Korozivno)

Proizvod/sastojak natrijev hidroksid;kaustična soda
Rezultat: Uočeni štetni učinci (Iritirajuće)

Uzrokuje teške opekline kože i ozljede oka.

Ozbiljno oštećenje/iritacija oka

Proizvod/sastojak iT.33 laundry booster pro
Rezultat: Uočeni štetni učinci (Uzrokuje teške ozljede oka)

Proizvod/sastojak kalijev hidroksid;kaustična potaša
Rezultat: Uočeni štetni učinci (Jako korozivno)

Proizvod/sastojak natrijev hidroksid;kaustična soda
Metoda ispitivanja: OECD 405
Vrste: Kunić
Rezultat: Uočeni štetni učinci (Korozivno)

Uzrokuje teške ozljede oka.

Senzitizacija dišnih puteva

Proizvod/sastojak kalijev hidroksid;kaustična potaša
Rezultat: Nisu uočeni štetni učinci (ne senzibilizirajući)

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Senzitizacija kože

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Mutacija spolnih celija

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Kancerogenost

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Toksicnost za reproduktivni sustav

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

STOT-pojedinacno izlaganje

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

STOT-ucestalo izlaganje

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

Opasnost od udisanja

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

11.2. Informacije o drugim opasnostima

Dugoročno djelovanje

Oštećenje tkiva: Ovaj proizvod sadrži nagrizajuće tvari. Udisanje isparenja ili aerosola može uzrokovati oštećenje pluća, iritaciju i opekline dišnih organa, kao i kašalj. Nagrizajuće tvari uzrokuju ireverzibilna oštećenja očiju i kiselinske opekline kože.

Svojstva endokrine disrupcije

Ova smjesa/proizvod ne sadrži nikakve tvari za koje se smatra da imaju svojstva izazivanja hormonskog poremećaja.

Ostale informacije

Nitko poznat.

ODJELJAK 12.: EKOLOŠKE INFORMACIJE

12.1. Toksicitnost

Proizvod/sastojak	iT.33 laundry booster pro
Vrste:	Andere waterorganismen, Leuciscus idus
Segment okoliša:	Voda
Trajanje:	96 sati
Test:	LC50
Rezultat:	>100 mg/L

Proizvod/sastojak	natrijev hidroksid;kaustična soda
Vrste:	Bakterije, Pseudomonas putida
Test:	EC0
Rezultat:	>100 mg/L

Proizvod/sastojak	natrijev hidroksid;kaustična soda
Vrste:	Dafnija, Ceriodaphnia dubia
Trajanje:	48 sati
Rezultat:	40.4 mg/L

Proizvod/sastojak	natrijev hidroksid;kaustična soda
Metoda ispitivanja:	OECD 203
Vrste:	Riba, Oncorhynchus mykiss
Trajanje:	96 sati
Test:	LC50
Rezultat:	45.4 mg/L

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

12.2. Postojanost i razgradivost

Na temelju dostupnih podataka kriteriji za razvrstavanje nisu ispunjeni.

12.3. Bioakumulacijski potencijal

Proizvod/sastojak	natrijev hidroksid;kaustična soda
Zaključak:	Bioakumulacija se ne očekuje

12.4. Pokretljivost u tlu

Podaci nisu dostupni.

12.5. Rezultati ocjenjivanja svojstava PBT i vPvB

Ova mješavina/proizvod ne sadrži nikakve tvari za koje se smatra da ispunjavaju kriterije po kojima ih se klasificira kao PBT i/ili vPvB.

12.6. Svojstva endokrine disrupcije

Ova smjesa/proizvod ne sadrži nikakve tvari za koje se kada se nađu unutar okoliša smatra da imaju svojstva ometanja endokrinog sustava.

12.7. Ostali štetni ucinci

Nitko poznat.

ODJELJAK 13.: ZBRINJAVANJE

13.1. Metode obrade otpada

Za proizvod se primjenjuju propisi o odlaganju opasnog otpada. (*)

HP 8 - Nagrizajuće

Odložiti sadržaj/spremnik u/na odobrenom odlagalištu otpada.

Uredba Komisije (EU) br. 1357/2014 od 18. prosinca 2014 o otpadu.

EWC šifra:

20 01 29*

Deterdženti koji sadrže opasne tvari

Kontaminirano pakiranje

Pakiranja u kojima se nalaze ostaci proizvoda moraju se odložiti kao otpad na isti način kao i sam proizvod.

ODJELJAK 14.: INFORMACIJE O PRIJEVOZU

	14.1 UN	14.2 Ispravno otpremno ime prema UN-u	14.3 Razred(i) opasnosti pri prijevozu	14.4 PG*	14.5. Env**	Ostale informacij e:
ADR	UN1719	NAGRIZAJUĆA ALKALNA TEKUĆINA, N.D.N. (kalijev hidroksid;kaustična potaša, natrijev hidroksid;kaustična soda)	Klasa: 8 Listice opasnosti: 8 Klasifikacijska oznaka: C5 	II	Ne	Ograničene količine: 1 L Tunelska restriksijska oznaka: (E) Dodatne informacije potražite u nastavku.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasa: 8 Listice opasnosti: 8 Klasifikacijska oznaka: C5 	II	Ne	Ograničene količine: 1 L EmS: F-A S- B Dodatne informacije potražite u nastavku.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasa: 8 Listice opasnosti: 8 Klasifikacijska oznaka: C5 	II	Ne	Dodatne informacije potražite u nastavku.

* Skupina pakiranja

** Opasnosti za okoliš

Dodatne informacije

Za proizvod se primjenjuje Uredba o opasnim tvarima.

ADR / Za sve informacije o posebnim odredbama, zahtjevima ili upozorenjima u vezi s prijevozom pogledajte tablicu A, odjeljak 3.2.1. Za pisane upute o ublažavanju štete u vezi s incidentima ili nezgodama tijekom prijevoza pogledajte odjeljak 5.4.3.

IMGD / Za sve informacije o posebnim odredbama, zahtjevima ili upozorenjima u vezi s prijevozom pogledajte, odjeljak 3.2.1

IATA / Za sve informacije o posebnim odredbama, zahtjevima ili upozorenjima u vezi s prijevozom pogledajte tablicu 4.2.

14.6. Posebne mjere opreza za korisnika

Nije primjenljivo.

14.7. Prijevoz morem u različenom stanju u skladu s instrumentima IMO-a

Podaci nisu dostupni.

ODJELJAK 15.: INFORMACIJE O PROPISIMA

15.1. Propisi u području sigurnosti, zdravlja i okoliša/posebno zakonodavstvo za tvar ili smjesu

Ograničenje primjene:

Samo za profesionalne korisnike.

Osobe mlađe od 18 godina ne smiju se izlagati ovom proizvodu.

Zahtjev za specifičnu edukaciju:

Nema posebnih uvjeta.

SEVESO - Kategorije opasnih tvari / Imena opasnih tvari:

Nije primjenljivo.

Dodatne informacije:

Nije primjenljivo.

Izvori:

Direktiva Vijeća 94/33/EZ od 22. lipnja 1994. o zaštiti mladih ljudi na radu.

Uredba (EZ) br. 648/2004 Europskog Parlamenta i Vijeća od 31. ožujka 2004. o deterdžentima.

Uredba Komisije (EU) br. 1357/2014 od 18. prosinca 2014 o otpadu.

Uredba (EZ) br. 1272/2008 Europskog Parlamenta i Vijeća od 16. prosinca 2008. o razvrstavanju, označivanju i pakiranju tvari i smjesa (CLP).

UREDBA (EZ) br. 1907/2006 EUROPSKOG PARLAMENTA I VIJEĆA od 18. prosinca 2006 o registraciji, evaluaciji, autorizaciji i ograničavanju kemikalija (REACH).

15.2. Procjena kemijske sigurnosti

Ne

ODJELJAK 16.: OSTALE INFORMACIJE

Puni tekst H-fraza navedenih u Odjeljak 3

H290, Može nagrizati metale.

H302, Štetno ako se proguta.

H314, Uzrokuje teške opekline kože i ozljede oka.

H315, Nadražuje kožu.

H318, Uzrokuje teške ozljede oka.

H319, Uzrokuje jako nadraživanje oka.

Kratice i akronimi

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = Europski sporazum u vezi s internacionalnim prijevozom opasne robe cestom

ATE = Visoko procijenjena toksičnost

BKF = Biokoncentracijski faktor

CAS = Baza kemijskih podataka
CE = Conformité Européenne
CLP = Regulacija klasifikacije, označavanja i pakiranja [Uredba (EZ) Br. 1272/2008]
CSA = Kemijska procjena sigurnosti
CSR = Izvještaj o kemijskoj sigurnosti
DNEL = Izvedeni stupanj bez učinka
EINECS = Europski popis postojećih komercijalnih kemijskih tvari
ES = Količina izloženosti
EUH izvještaj = CLP-specifičan izvještaj o opasnosti
EuPCS = Europski sustav kategorizacije proizvoda
EWC = Europski popis otpadnih tvari
GHS = Globalno usuglašeni sistem klasifikacije i označavanja kemikalija
GWP = Potencijal globalnog zagrijavanja
IATA = Internacionalno udruženje zračnog transporta
IBC = Kontejner srednjeg obujma
IMDG = Internacionalne pomorski opasne tvari
LogPow = logaritam koeficijenta razdjeljenja između oktanola i vode
MARPOL = Internacionalna konvencija za prevenciju zagađivanja od brodova, 1973 modificirano protokolom iz 1978. ("Marpol" = zagađenje mora)
OECD = Organizacija za ekonomsku suradnju i razvoj
PBT = Postojan, bioakumulativni i toksični
PNEC = Predviđena koncentracija bez efekta
RID = Uredba u vezi internacionalnog prijevoza opasnih tvari željezničkim putem
RRN = REACH Registracijski broj
SCL = Specifičnu granicu koncentracije.
SVHC = Tvari vrlo visoke važnosti
STOT-RE = Specifično ciljano organska toksičnost - Ponovljeno izlaganje
STOT-SE = Specifično ciljano organska toksičnost - Jednokratno izlaganje
TWA = Vremenski ponderirani prosjek
UVCB = Su tvari nepoznatog ili promjenljivog sastava, složeni reakcijski proizvodi ili biološki materijali.
UN = Ujedinjeni Narodi
VOC = Hlapljivi organski spojevi
vPvB = Vrlo otporno i vrlo bioakumulativno

Dodatne informacije

Klasifikacija smjese u vezi opasnosti po zdravlje je sukladna metodi proračuna datom u Propisu (EC) No. 1272/2008 (CLP).

Sigurnosno-tehnički list potvrđen je od strane

Quality & Compliance

Ostalo

Izmjena (u odnosu na posljednju ključnu izmjenu SDS inačice) označena je trokutom.

Informacije u ovom sigurnosno-tehničkom listu odnose se samo na ovaj proizvod (naveden je u odjeljak 1) i možda neće biti primjeren za uporabu s drugim kemikalijama/proizvodima.

Preporuča se proučavanje ovog sigurnosno-tehničkog lista stvarnom korisniku proizvoda. Informacije navedene u ovom sigurnosno-tehničkom listu ne mogu se koristiti kao specifikacija proizvoda.

Država-jezik: HR-hr

BIZTONSÁGI ADATLAP

iT.33 laundry booster pro

1. SZAKASZ: AZ ANYAG/KEVERÉK ÉS A VÁLLALAT/VÁLLALKOZÁS AZONOSÍTÁSA

1.1. Termékazonosító

Terméknév:

iT.33 laundry booster pro

Egyedi formulaazonosító (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Az anyag vagy keverék lényeges azonosított felhasználásai, illetve ellenjavallt felhasználásai

Az anyag vagy vegyület lényeges azonosított használatai:

Mosó- és tisztítószeres (beleértve az oldószer alapúakat is)

Kizárólag szakmai felhasználó részére.

Ellenjavallt felhasználása:

Senki sem ismerős.

1.3. A biztonsági adatlap szállítójának adatai

Cég és cím:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Felülvizsgálat:

2025. 08. 14.

BA verziószám:

2.0

Eredeti kiadás dátuma:

2025. 07. 28. (1.0)

1.4. Sürgősségi telefonszám

+36 80 201 199 (0-24 órában, díjmentesen hívható – csak Magyarországról)

Lásd a 4. szakasz: Elsősegélynyújtás.

2. SZAKASZ: A VESZÉLY AZONOSÍTÁSA

Az (EK) 1272/2008. (CLP) rendelet szerint besorolva.

2.1. Az anyag vagy keverék besorolása

Met. Corr. 1; H290, Fémekre korrozív hatású lehet.
Skin Corr. 1A; H314, Súlyos égési sérülést és szemkárosodást okoz.
Eye Dam. 1; H318, Súlyos szemkárosodást okoz.

2.2. Címkézési elemek

Veszélyt jelző piktogram(ok):



Figyelmeztetés(ek):

Veszély

Figyelmeztető mondat(ok):

Fémekre korrozív hatású lehet. (H290)

Súlyos égési sérülést és szemkárosodást okoz. (H314)

Óvintézkedésre vonatkozó mondatok:

▼ Általános:

Nem alkalmazható.

Megelőzés:

A gőzök/köd belélegzése tilos. (P260)

szemvédő/Védőkesztyű/védőruha használata kötelező. (P280)

▼ Reakció:

HA BŐRRE (vagy hajra) KERÜL: Az összes szennyezett ruhadarabot azonnal le kell vetni. A bőrt le kell öblíteni vízzel vagy zuhanyozás. (P303+P361+P353)

SZEMBE KERÜLÉS ESETÉN: Több percig tartó óvatos öblítés vízzel. Adott esetben a kontaktlencsék eltávolítása, ha könnyen megoldható. Az öblítés folytatása. (P305+P351+P338)

Azonnal forduljon TOXIKOLÓGIAI KÖZPONTHOZ/orvoshoz. (P310)

Tárolás:

bélésű edényben tárolandó. (P406)

Hulladékkezelés:

A tartalom/edény elhelyezése hulladékként a helyi előírásoknak megfelelően. (P501)

Tartalmaz:

kálium-hidroxid;maró kálium (marókáli)

nátrium-hidroxid;marónátron

További címkézés:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Egyéb veszélyek

További figyelmeztetések:

Ez a keverék/termék nem tartalmaz PBT és/vagy vPvB minősítésű anyagokat.

Ez a termék nem tartalmaz olyan anyagot, ami a Bizottság (EU) 2017/2100 felhatalmazáson alapuló rendeletében vagy a Bizottság (EU) 2023/707 rendeletében meghatározott kritériumokkal összhangban az endokrin rendszert károsító anyagnak tekintendő.

3. SZAKASZ: ÖSSZETÉTEL VAGY AZ ÖSSZETEVŐKRE VONATKOZÓ ADATOK

3.1. Anyagok

Nem alkalmazható. A termék keverék.

3.2. ▼ Keverékek

Termék / alkotóelem	Azonosítók	% w/w	Besorolás	Hivatkozás
kálium-hidroxid;maró kálium (marókáli)	CAS-szám: 1310-58-3 EK-szám: 215-181-3 REACH: Indexszám: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
nátrium-hidroxid;marónátron	CAS-szám: 1310-73-2 EK-szám: 215-185-5 REACH: 01-2119457892-27-XXXX Indexszám: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

A H - mondat(ok) teljes szövegét ld. a 16. szakaszban. Az elérhető munkahelyi határértékek listája a 8. szakaszban található.

Egyéb információ:

-

4. SZAKASZ: ELSŐSEGÉLY-NYÚJTÁSI INTÉZKEDÉSEK

4.1. Az elsősegély-nyújtási intézkedések ismertetése

Általános információ:

Balesetkor hívjon orvost vagy a baleseti ügyeletet - mutassa meg a termék címkéjét vagy ezt a biztonsági adatlapot! Az orvos érintkezésbe léphet az Egészségügyi Toxikológiai Tájékoztató Szolgálat (Telefon: 06-80-201-199).

Hívjon orvost, ha a sérült személy állapota kétséges, vagy a tünetek nem szűnnek meg! Eszméletlen személynek soha ne adjon vizet vagy hasonlót!

Belégzés:

Légzési nehézségek vagy a légutak irritációja esetén: Kísérje friss levegőre a személyt, aki az anyagot belélegezte és ne hagyja magára!

Bőrrel való érintkezés:

Hosszú ideig (legalább 30 percig) öblögesse vízzel az érintett területet. Lehet, hogy több óráig kell öblögetni. Kellemes hőmérsékletű (20-30 °C) vizet használjon. A kezelésre és a kontrollvizsgálatra vonatkozó tanácsokért tekintse meg a mérgezési tájékoztatót vagy forduljon egy toxikológiai orvoshoz/kórházhoz. Vegye le a szennyezett ruhadarabokat és cipőt! A szennyezett bőrfelületet alaposan mossa meg szappanos vízzel! NE HASZNÁLJON oldószert, higítószert! Bőrirritáció esetén: orvosi ellátást kell kérni.

Szemmel való érintkezés:

Szembe kerülés esetén: A szemhéjat széthúzva, bő, 20-30 °C-os vízzel alaposan mossa ki a szemét, legalább 30 percen keresztül, addig, amíg az irritáció el nem múlik! Távolítsa el a kontaktlencséjét! Forduljon orvoshoz! Azonnal kérjen egészségügyi ellátást, és a szállítás során folytassa az öblítést.

Lenyelés:

Lenyelés esetén azonnal hívjon orvost! Ha a személy eszméletlenül van, itassa meg vízzel! Ne idézzon elő hányást, míg az orvos nem tanácsolja. Tartsa arccal lefelé a fejét, hogy a hányás ne kerüljön vissza a szájba és a torokba. Tartsa a sérültet melegen és nyugodtan, hogy ne kerüljön sokkos állapotba! Ha a személy nem lélegzik,

alkalmazzon szájon át történő újraélesztést! Ha a személy eszméletlen, fektesse stabil oldalfekvésbe! Hívjon mentőt!

Égések:

Nem alkalmazható.

4.2. A legfontosabb – akut és késleltetett – tünetek és hatások

Szövetkárosító hatások: a termék olyan anyagokat tartalmaz, melyek korrozívak. Gőzök, gázok belégzésekor károsíthatja a tüdőt, a légzőszervek irritációját, égését, és köhögést okozhat. Korrozív anyagok a szem visszafordíthatatlan károsodását és a bőrön savas égést okozhatnak.

4.3. A szükséges azonnali orvosi ellátás és különleges ellátás jelzése

Expozíció vagy annak gyanúja esetén:

Azonnal orvosi ellátást kell kérni.

Tájékoztató orvosoknak

Vigye ezt a biztonsági adatlapot vagy a termék címkéjét!

5. SZAKASZ: TŰZOLTÁSI INTÉZKEDÉSEK

5.1. Oltóanyag

Nem alkalmazható.

5.2. Az anyaghoz vagy a keverékhez társuló különleges veszélyek

A tűz sűrű, füstöt eredményez. Bomlástermékekkel való érintkezés egészségkárosító lehet. A tűztől felhevült zárt tartályokat vízzel hűtse le! Ne öntsön tűzoltó vizet a csatornába vagy más víz

Ha a termék sugárzó hő hatásának van kitéve, illetve tűz esetén veszélyes bomlástermékek keletkeznek. Ezek: Néhány fénoxid

5.3. Tűzoltóknak szóló javaslat

Viseljen oxigénpalackos légzőkészüléket és védő öltözetet a termékkel való érintkezés megelőzésére.

6. SZAKASZ: INTÉZKEDÉSEK VÉLETLENSZERŰ KÖRNYEZETBE JUTÁS ESETÉN

6.1. Személyi óvintézkedések, egyéni védőeszközök és vészhelyzeti eljárások

Kerülje a kiszóródott, kiömlött anyaggal való közvetlen érintkezést!

Biztosítson megfelelő szellőzést, különösen zárt helyeken.

A szennyezett területek csúszósak lehetnek.

6.2. Környezetvédelmi óvintézkedések

Kerülje a termék felszíni/talajvízbe, csatornába, jutását.

Tartsa távol az illetéktelen személyeket a kiömléstől

6.3. A területi elhatárolás és a szennyezésmentesítés módszerei és anyagai

A kiömlött/kifolyt anyagot nem éghető, nedvszívó anyaggal kell felfogni és összegyűjteni, pl. homokkal, földdel, vermikulittal vagy kovafölddel; ezeket gyűjtse össze egy tartályba a helyi előírások szerinti ártalmatlanításhoz.

Ameddig lehet, csak normál tisztítószerrel tisztítsunk! Kerüljük az oldószereket!

6.4. Hivatkozás más szakaszokra

A hulladékok kezelésére vonatkozóan ld. Az 13 "Ártalmatlanítási szempontok" c. fejezetet!

Az óvintézkedésekre vonatkozóan ld. 8 "Az expozíció elleni védekezés/egyéni védelem" c. fejezetet!

7. SZAKASZ: KEZELÉS ÉS TÁROLÁS

7.1. A biztonságos kezelésre irányuló óvintézkedések

Kerülje a termékkel való közvetlen érintkezést!

Dohányzás, étel, ital fogyasztása, valamint dohányáru, étel, ital tárolása tilos a munkavégzés helyén!

A személyi óvintézkedésekre vonatkozóan ld. "Az expozíció elleni védekezés/egyéni védelem" c. fejezetet!

7.2. A biztonságos tárolás feltételei, az esetleges összeférhetlenséggel együtt

A már nyitott tartályokat gondosan vissza kell zárni, és a kifolyás megelőzésére, függőlegesen tárolni. bélésű edényben tárolandó.

A csomagolóanyagok kompatibilitása:
Az eredeti csomagolásban tartandó.

Tárolási feltételek:
Száras, hűvös és jól szellőzött

Összeférhetlenség:
Erős savak, lúgok, erős oxidálódó és bomlástermékek.

7.3. Meghatározott végfelhasználás (végfelhasználások)

A terméket csak az 1.2 fejezetben leírt célokra szabad használni!

8. SZAKASZ: AZ EXPOZÍCIÓ ELLENI VÉDEKEZÉS/EGYÉNI VÉDELEM

8.1. Ellenőrzési paraméterek

kálium-hidroxid;maró kálium (marókáli)
Rövid ideig megengedhető legnagyobb levegőszennyezettség (15 perc) (CK) (mg/m³): 2
Megengedett átlagos koncentráció (8 óra) (ÁK) (mg/m³): 2
Jellemző tulajdonság:
m = Felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat.

nátrium-hidroxid;marónátron
Rövid ideig megengedhető legnagyobb levegőszennyezettség (15 perc) (CK) (mg/m³): 2
Megengedett átlagos koncentráció (8 óra) (ÁK) (mg/m³): 2
Jellemző tulajdonság:
m = Felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat.

5/2020. (II. 6.) ITM rendelet a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről.

DNEL

kálium-hidroxid;maró kálium (marókáli)

Időtartam:	Expozíciós út:	DNEL:
Hosszú távú – helyi hatások – általános lakosság	Belélegzés	1 mg/m ³
Hosszú távú – helyi hatások – munkavállalók	Belélegzés	1 mg/m ³

nátrium-hidroxid;marónátron

Időtartam:	Expozíciós út:	DNEL:
Hosszú távú – helyi hatások – általános lakosság	Belélegzés	1 mg/m ³
Hosszú távú – helyi hatások – munkavállalók	Belélegzés	1 mg/m ³
Hosszú távú – szisztémás hatások – általános lakosság	Bőrön át	2 %
Hosszú távú – szisztémás hatások – munkavállalók	Bőrön át	<2 %

PNEC

nátrium-hidroxid;marónátron

Expozíciós út:	Expozíció időtartama:	PNEC:
Édesvíz		6.4 mg/L

Édesvízi üledék		23 mg/kg TG
Időszakos kibocsátás		3.1 mg/L
Időszakos kibocsátás (tengervíz)		2.3 mg/kg TG
Szennyvízkezelő telep		51 mg/L
Talaj		0.853 mg/kg TG
Tengervíz		0.64 mg/L

8.2. Az expozíció elleni védekezés

A megállapított expozíciós határértékekkel való egyezést előírászerűen ellenőrizni kell!

Általános javaslatok:

Dohányzás, étel, ital fogyasztása, valamint dohányáru, étel, ital tárolása tilos a munkavégzés helyén!

Expozíciós forgatókönyv:

A termékre vonatkozóan nem dolgoztak ki expozíciós forgatókönyvet.

Expozíciós hatások:

A termék kereskedelmi forgalomba kerülése során biztosítani kell azon munkahelyi egészségügyi előírások betartását, amelyek a termék maximális expozíciós koncentrációjára vonatkoznak. A munkahigiéniai határértékeket ld. fent!

Megfelelő műszaki intézkedések:

A gőzképződést minimálisra kell csökkenteni, és az aktuális határérték alatt kell tartani (lásd fent). Amennyiben a munkavégzésre szolgáló helyszínen nem elegendő a normál légáram, egy helyi kipufogórendszer telepítése javasolt. Biztosítsa, hogy a sürgősségi szemöblítő folyadék és szemzuhany jól láthatóan meg legyenek jelölve. Biztosítsa, hogy a szemmosó állomások és a biztonsági zuhanyok könnyen elérhető helyen legyenek. A termék használatakor végezze el a szokásos óvintézkedéseket. Kerülje el a gőzök belégzését.

Higiéniai intézkedések:

Bármikor szünetet tart vagy befejezi a termék használatát, minden szennyezett testrészét mossa meg! Különös figyelmet kell fordítani a kézre, az alkarra és az arcra.

A környezeti expozíció ellenőrzése:

Tartson duzzasztó anyagokat közel a munkavégzés helyéhez! Lehetőség szerint, munka közben gyűjtse össze a kiszóródott anyagot!

Egyéni óvintézkedések, úgy mint személyi védőfelszerelések

Általános:

Kizárólag CE jelzéssel ellátott védőfelszerelést használjon.

Légutak védelme:

Típus	Osztály	Szín	Szabványokra	
Nincs szükség légzésvédelemre megfelelő szellőztetés esetén.				

Bőrvédelem:

Ajánlott	Típusú/Kategóriájú	Szabványokra	
Speciális védőruha használata kötelező!	-	-	

Kézvédelem:

Munkaállomás	Anyag	Minimális réteg vastagság (mm)	Áteresztési ideje (percig)	Szabványokra	
Hosszú ideig tartó expozíció vagy magas koncentrációk esetén	Nitril kaucsuk	0.4	> 480	EN374-2, EN16523-1, EN388	
Rövid ideig tartó expozíció vagy alacsony koncentrációk esetén	Nitril kaucsuk	1,5	> 30	EN374-2, EN16523-1, EN388	

Szemvédelem:

Típus	Szabványokra	
Viseljen oldalvédővel rendelkező védőszemüveget!	EN166	

9. SZAKASZ: FIZIKAI ÉS KÉMIAI TULAJDONSÁGOK

9.1. Az alapvető fizikai és kémiai tulajdonságokra vonatkozó információk

Forma:

Folyékony

Szín:

Halványsárga

▼ Szag / Szagküszöbérték (ppm):

Enyhe

pH:

13.5

Sűrűség (g/cm³):

1,29 (20 °C)

Kinematikus viszkozitás:

Nincs erre vonatkozó adat.

Részecskejellemzők:

Folyadékokra nem alkalmazandó.

Halmazállapot változások

Olvadáspont/fagyáspont (°C):

Nincs erre vonatkozó adat.

Lágyuláspont/lágyulásponttartomány (°C):

Folyadékokra nem alkalmazandó.

Forráspont (°C):

100

Gőzsűrűség:

Nincs erre vonatkozó adat.

Relatív gőzsűrűség:

Nincs erre vonatkozó adat.

Bomlási hőmérséklet (°C):

Nincs erre vonatkozó adat.

Tűz-és robbanásveszélyességi adatok

Lobbanási pont (°C):

Nincs erre vonatkozó adat.

Tűzveszélyesség (°C):

Nincs erre vonatkozó adat.

Öngyulladás hőmérséklet (°C):

Nincs erre vonatkozó adat.

Lobbanási határ (% v/v):

Nincs erre vonatkozó adat.

Oldódás

Vízben oldódás:

Teljes mértékben oldódik

n-octanol/vízzel együtttható (LogKow):

Nincs erre vonatkozó adat.

Zsírban oldódás (g/L):

Nincs erre vonatkozó adat.

9.2. Egyéb információk

Egyéb fizikai vagy kémiai paramétereket:

Nincs erre vonatkozó adat.

Oxidációs jellemzők:

Nincs erre vonatkozó adat.

10. SZAKASZ: STABILITÁS ÉS REAKCIÓKÉSZSÉG

10.1. Reakciókészség

Nincs erre vonatkozó adat.

10.2. Kémiai stabilitás

A 7 "Kezelés és tárolás" fejezetben leírt körülmények között a termék szilárd.

10.3. A veszélyes reakciók lehetősége

Senki sem ismerős.

10.4. Kerülendő körülmények

Senki sem ismerős.

10.5. Nem összeférhető anyagok

Erős savak, lúgok, erős oxidálódó és bomlástermékek.

10.6. Veszélyes bomlástermékek

A hőbomlás maró hatású gőzöket képezhet.

11. SZAKASZ: TOXIKOLÓGIAI ADATOK

11.1. Az 1272/2008/EK rendeletben meghatározott, veszélyességi osztályokra vonatkozó információk

Akut toxicitás

Termék / alkotóelem	kálium-hidroxid;maró kálium (marókáli)
Fajták:	Patkány, hím
Expozíció iránya:	Szájon át
Teszt:	LD50

Összhangban van a 2020/878 (EU) Rendelettel módosított 1907/2006/EK Rendelet (REACH) II. Mellékletével

Eredmény: 333 - 388 mg/kg

Termék / alkotóelem nátrium-hidroxid;marónátron
Eredmény: 45.4 mg/L

Termék / alkotóelem nátrium-hidroxid;marónátron
Fajták: Nyúl
Teszt: LD lo
Eredmény: 500 mg/kg

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Bőrirritáció

Termék / alkotóelem iT.33 laundry booster pro
Eredmény: Káros hatások figyelhetők meg (Fokozottan irritáló)

Termék / alkotóelem kálium-hidroxid;maró kálium (marókáli)
Eredmény: Káros hatások figyelhetők meg (Korrozív)

Termék / alkotóelem nátrium-hidroxid;marónátron
Eredmény: Káros hatások figyelhetők meg (Irritáló)

Súlyos égési sérülést és szemkárosodást okoz.

Súlyos szemkárosodás/szemirritáció

Termék / alkotóelem iT.33 laundry booster pro
Eredmény: Káros hatások figyelhetők meg (Súlyos szemkárosodást okoz)

Termék / alkotóelem kálium-hidroxid;maró kálium (marókáli)
Eredmény: Káros hatások figyelhetők meg (Fokozottan korrozív)

Termék / alkotóelem nátrium-hidroxid;marónátron
Vizsgálati módszer: OECD 405
Fajták: Nyúl
Eredmény: Káros hatások figyelhetők meg (Korrozív)

Súlyos szemkárosodást okoz.

Légzőszervi szenzibilizáció

Termék / alkotóelem kálium-hidroxid;maró kálium (marókáli)
Eredmény: Káros hatások nem figyelhetők meg (nem érzékenyítő)

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Bőrszenzibilizáció

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Csírasejt-mutagenitás

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Rákkeltő hatás

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Reprodukciós toxicitás

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Egyetlen expozíció utáni célszervi toxicitás (STOT)

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Ismétlődő expozíció utáni célszervi toxicitás (STOT)

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

Aspirációs veszély

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

11.2. Egyéb veszélyekkel kapcsolatos információ

Hosszantartó hatások

Szövetkárosító hatások: a termék olyan anyagokat tartalmaz, melyek korrozívak. Gőzök, gázok belégzésekor károsíthatja a tüdőt, a légzőszervek irritációját, égését, és köhögést okozhat. Korrozív anyagok a szem visszafordíthatatlan károsodását és a bőrön savas égést okozhatnak.

Endokrin károsító tulajdonságok

A keverék/termék nem tartalmaz az egészséggel kapcsolatban hormonzavaró tulajdonságokkal rendelkező anyagokat.

Egyéb információk

Senki sem ismerős.

12. SZAKASZ: ÖKOLÓGIAI ADATOK

12.1. Toxicitás

Termék / alkotóelem	iT.33 laundry booster pro
Fajták:	Andere waterorganismen, Leuciscus idus
Környezeti közeg:	Víz
Időtartam:	96 órá
Teszt:	LC50
Eredmény:	>100 mg/L

Termék / alkotóelem	nátrium-hidroxid;marónátron
Fajták:	Baktériumok, Pseudomonas putida
Teszt:	EC0
Eredmény:	>100 mg/L

Termék / alkotóelem	nátrium-hidroxid;marónátron
Fajták:	Vízibolha, Ceriodaphnia dubia
Időtartam:	48 órá
Eredmény:	40.4 mg/L

Termék / alkotóelem	nátrium-hidroxid;marónátron
Vizsgálati módszer:	OECD 203
Fajták:	Hal, Oncorhynchus mykiss
Időtartam:	96 órá
Teszt:	LC50
Eredmény:	45.4 mg/L

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

12.2. Perzisztencia és lebonthatóság

A rendelkezésre álló adatok alapján az osztályozás kritériumai nem teljesülnek.

12.3. Bioakkumulációs képesség

Termék / alkotóelem	nátrium-hidroxid;marónátron
Következtetés:	Felhalmozódása a szervezetben nem várható

12.4. A talajban való mobilitás

Nincs erre vonatkozó adat.

12.5. A PBT- és a vPvB-értékelés eredményei

Ez a keverék/termék nem tartalmaz PBT és/vagy vPvB minősítésű anyagokat.

12.6. Endokrin károsító tulajdonságok

A keverék/termék nem tartalmaz a környezettel kapcsolatban endokrin-romboló tulajdonságokkal rendelkező anyagokat.

12.7. Egyéb káros hatások

Senki sem ismerős.

13. SZAKASZ: ÁRTALMATLANÍTÁSI SZEMPONTOK

13.1. Hulladékkezelési módszerek

Ez a termék veszélyes hulladékokra vonatkozó rendeletek szerint kezelendő! (*)

HP 8 - Maró

A tartalom/edény elhelyezése hulladékként: veszélyes hulladékgyűjtő helyre vinni.

Veszélyes hulladékok: 2012. évi CLXXXV. törvény a hulladékról. 225/2015. (VIII. 7.) Korm. rendelet a veszélyes hulladékkal kapcsolatos egyes tevékenységek részletes szabályairól.

EWC kód:

20 01 29*

Veszélyes anyagokat tartalmazó mosószer

Szennyezett csomagolás

Maradékot tartalmazó tartályt ugyanúgy ártalmatlanítsuk, mint magát a terméket!

14. SZAKASZ: SZÁLLÍTÁSRA VONATKOZÓ INFORMÁCIÓK

	14.1 UN	14.2 Az ENSZ szerinti megfelelő szállítási megnevezés	14.3 Szállítási veszélyességi osztály(ok)	14.4 PG*	14.5. Env**	Egyéb információ:
ADR	UN1719	MARÓ, LÚGOS FOLYÉKONY ANYAG, M.N.N. (kálium-hidroxid;maró kálium (marókáli), nátrium-hidroxid;marónátron)	Osztály: 8 Bárcák: 8 Osztályozási kód: C5 	II	Nincs	Korlátozott mennyiség: 1 L Alagútkorlátozási kód: (E) További információt alább olvashat.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Osztály: 8 Bárcák: 8 Osztályozási kód: C5 	II	Nincs	Korlátozott mennyiség: 1 L EmS: F-A S-B További információt alább olvashat.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Osztály: 8 Bárcák: 8 Osztályozási kód: C5 	II	Nincs	További információt alább olvashat.

* Csomagolási csoport

**** Környezeti veszélyek**

Egyéb információ

A veszélyes árukra vonatkozó egyezmény által védett termék.

ADR / Lásd az A. táblázat 3.2.1 pontját a szállítással kapcsolatos különleges rendelkezésekről, követelményekről vagy figyelmeztetésekről. Lásd az 5.4.3. pontot a szállítás közben bekövetkező eseményekkel vagy balesetekkel kapcsolatos károk enyhítésével kapcsolatos írásbeli utasításokért.

IMGD / Lásd az 3.2.1 pontját a szállítással kapcsolatos különleges rendelkezésekről, követelményekről vagy figyelmeztetésekről.

IATA / Lásd az táblázat 4.2 pontját a szállítással kapcsolatos különleges rendelkezésekről, követelményekről vagy figyelmeztetésekről.

14.6. A felhasználót érintő különleges óvintézkedések

Nem alkalmazható.

14.7. Az IMO-szabályok szerinti tengeri ömlesztett szállítás

Nincs erre vonatkozó adat.

15. SZAKASZ: SZABÁLYOZÁSSAL KAPCSOLATOS INFORMÁCIÓK

15.1. Az adott anyaggal vagy keverékkel kapcsolatos biztonsági, egészségügyi és környezetvédelmi előírások/jogszabályok

Alkalmazási korlátozások:

Kizárólag szakmai felhasználó részére.

A termékkel 18 év alattiak nem érintkezhetnek! "18 éven aluliakat tilos a termék hatásának kitenni!"

Specifikus oktatásra vonatkozó követelmények:

Nincs különleges követelmény.

SEVESO - A veszélyes anyagok kategóriái / Megnevezett veszélyes anyagok:

Nem alkalmazható.

Egyéb információ:

Nem alkalmazható.

Források:

2007. évi CLXI. törvény a munkavédelemről szóló 1993. évi XCIII. törvény módosításáról.

Az Európai Parlament és a Tanács 648/2004/EK rendelet (2004. március 31.) a mosó- és tisztítószerkekről.

Veszélyes hulladékok: 2012. évi CLXXV. törvény a hulladékról. 225/2015. (VIII. 7.) Korm. rendelet a veszélyes hulladékkal kapcsolatos egyes tevékenységek részletes szabályairól.

Munkavédelem: 1993 évi XCIII. törvény a munkavédelemről és az ehhez kapcsolódó rendeletek.

5/2020 (II.6.) ITM rendelet a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről.

44/2000 (XII. 27.) EÜM rendelet a veszélyes anyagokkal és veszélyes készítményekkel kapcsolatos egyes eljárások, illetve tevékenységek részletes szabályairól.

Az Európai Parlament és a Tanács 1272/2008/EK rendelet (2008. december 16.) az anyagok és keverékek osztályozásáról, címkézéséről és csomagolásáról (CLP).

Az Európai Parlament és a Tanács 1907/2006/EK rendelete (2006. december 18.) a vegyi anyagok regisztrálásáról, értékeléséről, engedélyezéséről és korlátozásáról (REACH).

15.2. Kémiai biztonsági értékelés

Nincs

16. SZAKASZ: EGYÉB INFORMÁCIÓK

A H mondatok teljes szövege, ahogyan a 3. szakaszban is említve volt

H290, Fémekre korrozív hatású lehet.

H302, Lenyelve ártalmas.
H314, Súlyos égési sérülést és szemkárosodást okoz.
H315, Bőrirritáló hatású.
H318, Súlyos szemkárosodást okoz.
H319, Súlyos szemirritációt okoz.

Rövidítések és betűszavak

ADN = A Veszélyes Áruk Nemzetközi Belvízi Szállításáról szóló Európai Egyezmény
ADR = A Veszélyes Áruk Nemzetközi Közúti Szállításáról szóló Európai Egyezmény
ATE = Akut Toxicitás Becslése
BCF = Bio-koncentrációs Faktor
CAS = Vegyi anyag Nyilvántartási Szolgálat
CE = Európai megfelelés
CLP = Az Európai Parlament és a Tanács Rendelete az Anyagok és Keverékek Besorolásáról, Címkzéséről és Csomagolásáról [EK Rendelet No. 1272/2008]
CSA = Kémiai Biztonsági Értékelés
CSR = Kémiai Biztonsági Jelentés
DNEL = Származtatott Hatásmentes Szint
EINECS = Létező Kereskedelmi Anyagok Európai Jegyzéke
ES = Expozíciós Forráskönyv
EUH statement = CLP-specifikus Figyelmeztető mondat
EuPCS = Uniós termékbesorolási rendszer
EWC = Európai Hulladék Katalógus
GHS = Vegyi Anyagok Osztályozásának és Címkzésének Globálisan Harmonizált Rendszere
GWP = Globális felmelegedési potenciál
IATA = Nemzetközi Légi Szállítási Szövetség
IBC = Nagyméretű Csomagolóeszköz
IMDG = Veszélyes Áruk Nemzetközi Tengerészeti Kódexe
LogP_{ow} = log oktanol/víz megoszlási együttható
MARPOL = Hajókról történő Szennyezés Megelőzéséről szóló és az 1978. évi Jegyzőkönyvvel módosított 1973. évi Nemzetközi Egyezmény. ("Marpol = tengeri szennyezés")
OECD = Gazdasági Együttműködési és Fejlesztési Szervezet
PBT = Perzisztens, Bioakkumulatív és Mérgező
PNEC = Előre látható Hatástalan Koncentráció
RID = Veszélyes Áruk Nemzetközi Vasúti Fuvarozásáról szóló Szabályzat
RRN = REACH Regisztrációs Szám
SCL = A(z) anyagnak egyedi koncentrációs határértéke van.
SVHC = Különös Aggódalomra okot adó Anyagok
STOT-RE = Célszervi Toxicitás - Ismétlődő Expozíció
STOT-SE = Célszervi Toxicitás - Egyszeri Expozíció
TWA = Idővel súlyozott átlagos
UN = Egyesült Nemzetek
UVCB = Ismeretlen szerkezetű vagy változó összetételű, komplex reakcióban keletkezett vagy biológiai eredetű anyagok.
VOC = Illékony Szerves Vegyület
vPvB = Nagyon Perzisztens és Nagyon Bioakkumulatív

Egyéb információ

A keverék egészségi veszélyek szerinti besorolása megfelel az 1272/2008. sz. EK rendeletben meghatározott számítási módszereknek.

A biztonsági adatlapot jóváhagyta:

Quality & Compliance

Egyéb

A BA (Biztonsági Adatlap) utolsó kiadásához képest történt változást háromszög jelzi.

Ezen biztonsági adatlapban lévő információk kizárólag erre a bizonyos termékre vonatkoznak, (ld. 1. szakasz) és nem szükségszerűen helyes más vegyszerek/termékek használatára.

Javasolt ezen biztonsági adatlap átadása az aktuális termék felhasználónak. Ezen biztonsági adatlapban lévő információk nem használandók termék specifikációként.

Országnyelv: HU-hu

LEMBAR DATA KESELAMATAN

iT.33 laundry booster pro

1: IDENTIFIKASI ZAT/SEDIAAN DAN PERUSAHAAN/YANG MENANGANI

1.1. Pengenal produk

Nama produk:
iT.33 laundry booster pro

1.2. Penggunaan zat atau campuran yang relevan dan penggunaan yang tidak dianjurkan

Penggunaan-penggunaan yang dianjurkan:
Deterjen dan bahan pembersih (termasuk yang berbasis pelarut)
Terbatas untuk penggunaan industri dan para profesional.

Penggunaan yang tidak disarankan:
Tidak diketahui.

1.3. Rincian pemasok lembar data keselamatan

Rincian perusahaan:
Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

Email:
info@hygeniq.com

Tanggal SDS:
14/08/2025

Versi SDS:
2.0

Tanggal terbitan sebelumnya:
28/07/2025 (1.0)

1.4. Nomor telepon darurat

Jika timbul kondisi darurat, hubungi 112 (layanan 24 jam)
Lihat bagian 4: Tindakan pertolongan pertama

2: IDENTIFIKASI BAHAYA

Bahan ini dianggap berbahaya oleh Nomor peraturan 23/M-IND/PER/4/2013 (GHS)

2.1. Klasifikasi bahaya produk (senyawa / campuran)

Met. Corr. 1; H290, Dapat menyebabkan korosif terhadap logam.
Skin Corr. 1A; H314, Menyebabkan luka bakar yang parah pada kulit dan kerusakan mata.
Eye Dam. 1; H318, Menyebabkan kerusakan serius pada mata.

2.2. Elemen label

Piktogram (simbol bahaya):



Kata sinyal:

Berbahaya

Pernyataan Bahaya:

Dapat menyebabkan korosi terhadap logam. (H290)

Menyebabkan luka bakar yang parah pada kulit dan kerusakan mata. (H314)

Pernyataan Kehati-hatian:

▼ *Umum:*

Tidak berlaku.

Pencegahan:

Jangan menghirup uap/kabut. (P260)

Pakai pelindung mata/sarung tangan pelindung/pakaian pelindung. (P280)

Tanggapan:

JIKA TERKENA KULIT (atau rambut): Pindahkan/lepas segera seluruh pakaian yang terkontaminasi. Bilas kulit dengan air/pancuran (P303+P361+P353)

JIKA TERKENA MATA : Bilas dengan seksama dengan air untuk beberapa menit. Lepaskan lensa kontak jika memakainya dan mudah melakukannya. Lanjutkan membilas. (P305+P351+P338)

Penyimpanan:

Simpan dalam wadah dengan lapisan dalam yang tahan. (P406)

Pembuangan:

Buang isi/wadah sesuai dengan peraturan lokal (P501)

Komponen-komponen yang berbahaya:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Pelabelan tambahan:

Tidak berlaku.

3: KOMPOSISI / INFORMASI TENTANG BAHAN PENYUSUN SENYAWA TUNGGAL

3.1. Zat

Tidak berlaku. Produk ini adalah campuran.

3.2. ▼ Campuran

Produk/bahan	Pengidentifikasi	% w/w	Klasifikasi	Catatan
potassium hydroxidecaustic potash	CAS: 1310-58-3 EC: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
sodium hydroxidecaustic soda	CAS: 1310-73-2 EC: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %)	

			Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Lihat teks lengkap frase-H pada bagian 16. Batas paparan kerja tercantum di bagian 8, jika sudah tersedia.

Informasi Lain

-

4: TINDAKAN PERTOLONGAN PERTAMA PADA KECELAKAAN

4.1. Deskripsi langkah-langkah pertolongan pertama

Umum:

Jika terjadi kecelakaan: Hubungi dokter atau bagian kecelakaan – bawa label atau lembar data keselamatan ini. Hubungi dokter jika ragu-ragu dengan kondisi korban cedera atau jika gejalanya terus berlanjut. Jangan sekali-kali memberi minum korban tak sadarkan diri dengan air putih atau minuman lain.

Penghirupan:

Saat terhirup, sesak atau iritasi saluran napas: Bawa korban ke tempat berudara segar dan tetapkanlah bersamanya.

Kena kulit:

Bilas area paparan dengan air untuk waktu lama - setidaknya 30 menit. Bila perlu bilas hingga beberapa jam. Gunakan air pada temperatur yang nyaman (20-30 °C). Hubungi Informasi Racun/dokter/rumah sakit untuk saran tambahan terhadap tindak lanjut dan perawatan.

Segera lepas pakaian dan sepatu yang terkontaminasi. Pastikan mencuci kulit terpapar dengan air dan sabun sampai bersih. Pembersih kulit bisa digunakan. JANGAN menggunakan pelarut atau pengencer.

Jika iritasi kulit terjadi: Dapatkan nasehat/perhatian pengobatan.

Kena mata:

Jika pada mata: Bilas mata dengan air atau air garam yang banyak (20-30 °C) selama minimal 30 menit dan terus lakukan sampai iritasi hilang. Lepas lensa kontak. Pastikan bilasan mengenai kelopak mata atas dan bawah. Segera cari bantuan medis dan teruskan pembilasan.

Tertelan:

Jika tertelan, segera hubungi dokter sambil. Jika korban sadar, beri minum air. JANGAN coba-coba merangsang muntah, kecuali karena saran dokter. Usahakan kepala menghadap ke bawah untuk mencegah agar muntahan tidak kembali ke mulut dan kerongkongan. Hindari syok dengan menjaga suhu korban cedera tetap hangat dan tenang. Segera lakukan resusitasi dari mulut ke mulut jika napas berhenti. Jika tak sadarkan diri, guling tubuh korban cedera ke posisi pemulihan. Panggil ambulans.

Luka bakar:

Tidak berlaku.

4.2. Gejala-gejala dan efek-efek yang utama, baik yang akut maupun tertunda

Efek yang merusak jaringan tubuh: Produk ini mengandung zat-zat dengan sifat yang mengelupas kulit. Uap atau aerosol yang terhirup bisa menimbulkan efek tak diinginkan terhadap paru-paru, berupa iritasi dan terbakar pada organ pernapasan dan juga batuk. Kontak kulit dan kontak mata menimbulkan efek yang tidak bisa dipulihkan.

4.3. Petunjuk pertolongan pertama dan perawatan khusus yang diperlukan

Jika terpapar atau dikuatirkan:

Dapatkan segera nasehat/perhatian medis.

Catatan untuk dokter

Bawa lembar data keselamatan ini atau label.

5: TINDAKAN PEMADAMAN KEBAKARAN

5.1. Media pemadam kebakaran/api

Tidak berlaku.

5.2. Bahaya-bahaya khusus yang akan muncul dari zat atau campuran

Kebakaran akan menyebabkan asap pekat. Paparan dari produk pembakaran bisa merusak kesehatan Anda. Wadah tertutup, yang terpapar api, harus didinginkan dengan air. Jangan biarkan air pemadam kebakaran masuk ke dalam sistem saluran air atau genangan air di sekitar.

Jika produk terpapar suhu tinggi, misalnya kebakaran, muncul senyawa dekomposisi yang berbahaya. Senyawa tersebut adalah:

Beberapa oksida logam

5.3. Saran untuk pemadam kebakaran

Kenakan alat bantu pernapasan SCBA dan pakaian pelindung untuk mencegah kontak. Saat terpapar langsung, hubungi layanan darurat (112) untuk mendapatkan saran lebih lanjut.

6: TINDAKAN PENANGGULANGAN JIKA TERJADI TUMPAHAN DAN KEBOCORAN

6.1. Langkah-langkah pencegahan diri, alat pelindung dan prosedur tanggap darurat

Hindari kontak langsung dengan materi tumpahan.

Area yang terkontaminasi mungkin licin.

6.2. Langkah-langkah pencegahan bagi lingkungan

Hindari kebocoran ke danau, sungai, saluran air, dll.

Jauhkan orang yang tidak berwenang dari tumpahan

6.3. Metode dan bahan penangkalan (containment) dan pembersihan

Tampung dan kumpulkan tumpahan dengan bahan penyerap yang tidak mudah terbakar, seperti pasir, tanah, tanah vermikulit atau diatom dan tempatkan dalam penampung yang sesuai untuk pembuangan berdasarkan peraturan lokal.

Jika memungkinkan, pembersihan dilakukan menggunakan bahan pembersih normal. Hindari penggunaan pelarut.

6.4. Referensi ke bagian-bagian lain

Lihat bagian 13 untuk tambahan informasi mengenai pembuangan limbah.

Lihat Bagian 8 untuk tambahan informasi kontrol paparan/perlindungan diri.

7: PENANGANAN DAN PENYIMPANAN

7.1. Langkah-langkah pencegahan untuk penanganan yang aman

Hindari kontak langsung dengan produk.

Dilarang merokok, minum, dan makan di tempat kerja.

Lihat bagian 'Kontrol paparan/perlindungan diri' untuk informasi tentang perlindungan diri.

7.2. Kondisi untuk penyimpanan yang aman, termasuk inkompatibilitas

Wadah yang sudah terbuka harus disegel ulang dengan hati-hati dan ditaruh tegak berdiri untuk mencegah kebocoran.

Simpan dalam wadah wadah dengan lapisan dalam yang tahan.

Material penyimpanan yang direkomendasikan:

Jaga hanya disimpan dalam wadah aslinya.

Kondisi penyimpanan:

Kering, dingin, dan baik ventilasinya

Bahan-bahan yang tidak tercampurkan:

Asam kuat, basa kuat, bahan pengoksidasi kuat, dan bahan pereduksi kuat.

7.3. Kegunaan(-kegunaan) akhir spesifik

Produk ini hanya boleh digunakan untuk penerapan yang tercantum di bagian 1.2.

8: KONTROL PAPARAN / PERLINDUNGAN DIRI

8.1. Paramater pengendalian

Tidak ada zat yang terdaftar dengan batas paparan pekerjaan.

8.2. Pengendalian paparan

Terapkan kontrol umum untuk mencegah paparan yang tidak perlu.

Rekomendasi umum:

Dilarang merokok, minum, dan makan di tempat kerja.

Skenario paparan:

Tidak ada skenario paparan yang diterapkan untuk produk ini.

Nilai batas paparan:

Batas paparan kerja belum ditetapkan untuk zat-zat yang terkandung dalam produk ini.

Teknik pengendalian yang benar:

Pastikan tempat pencuci mata dan pancuran keselamatan mudah dijangkau.

Terapkan tindakan pencegahan standar saat menggunakan produk. Hindari menghirup uap.

Tindakan Higienis:

Di sela-sela penggunaan produk dan sesuai kerja, semua anggota tubuh yang terpapar harus dicuci bersih.

Berikan perhatian khusus kepada tangan, lengan bawah, dan wajah.

Pengendalian pemaparan lingkungan:

Taruh bahan-bahan penahan di tempat kerja. Jika memungkinkan, kumpulkan tumpahan selama kerja.

Tindakan perlindungan diri

Umum:

Cukup gunakan peralatan pelindung bertanda CE.

Perlindungan pernapasan:

Tipe	Kelas	Warna	Standar	
Perlindungan pernapasan tidak perlu dilakukan				

Perlindungan tubuh:

Disarankan	Tipe / Kategori	Standar	
Pakaian khusus kerja	-	-	

Perlindungan tangan:

Kondisi kerja	Bahan	Ketebalan sarung tangan (mm)	Waktu tembus (menit)	Standar	
Jika paparan berkepanjangan atau konsentrasi tinggi	Karet nitril	0.4	> 480	EN374-2, EN16523-1, EN388	

Menurut Nomor peraturan 23/M-IND/PER/4/2013 (GHS)

Kondisi kerja	Bahan	Ketebalan sarung tangan (mm)	Waktu tembus (menit)	Standar	
Jika terjadi paparan jangka pendek atau konsentrasi rendah	Karet nitril	1,5	> 30	EN374-2, EN16523-1, EN388	

Perlindungan mata:

Tipe	Standar	
Kacamata pelindung dengan pelindung samping	EN166	

9: SIFAT FISIKA DAN KIMIA

9.1. Informasi sifat-sifat fisika dan kimia dasar

Bentuk fisik:

Cairan

Warna:

Kuning pucat

▼ *Bau:*

Ringan

Ambang batas bau (ppm):

Data tidak tersedia.

pH:

13.5

Kerapatan (densitas) relatif (g/cm³):

1,29 (20 °C)

Kekentalan (viskositas):

Data tidak tersedia.

Karakteristik partikel:

Ne primjenjuje se na tekućine.

Perubahan fase

Titik lebur / titik beku (°C):

Data tidak tersedia.

Titik pelunakan/rentang (°C):

Ne primjenjuje se na tekućine.

Titik didih/jarak didih (°C):

100

Tekanan uap:

Data tidak tersedia.

Rapat (densitas) uap:

Data tidak tersedia.

Suhu penguraian (°C):

Data tidak tersedia.

Laju penguapan:

Data tentang bahaya kebakaran dan ledakan

Titik nyala (°C):

Data tidak tersedia.

Kemudahan-menyala (°C):

Data tidak tersedia.

Suhu dapat membakar sendiri (°C):

Data tidak tersedia.

Batas atas/bawah kemudahan terbakar atau batasan meledak (% v/v):

Data tidak tersedia.

Kelarutan

Kelarutan dalam air:

Terlalu mudah larut

Koefisien partisi (LogKow):

Data tidak tersedia.

Kelarutan dalam lemak (g/L):

Data tidak tersedia.

9.2. Informasi Lain

Parameter fisik dan kimia lainnya:

Data tidak tersedia.

Sifat pengoksidasi:

Data tidak tersedia.

10: STABILITAS DAN REAKTIFITAS

10.1. Reaktivitas

Data tidak tersedia.

10.2. Stabilitas kimia

Produk stabil dalam kondisi seperti yang tercantum di bagian 7 "Penanganan dan penyimpanan".

10.3. Reaksi berbahaya yang mungkin di bawah kondisi spesifik / khusus

Tidak diketahui.

10.4. Kondisi yang harus dihindari

Tidak diketahui.

10.5. Bahan-bahan yang tidak tercampurkan

Asam kuat, basa kuat, bahan pengoksidasi kuat, dan bahan pereduksi kuat.

10.6. Hasil penguraian yang berbahaya

Dekomposisi termal dapat menghasilkan uap korosif.

11: INFORMASI TOKSIKOLOGI

11.1. Informasi efek-efek toksikologi

Toksistasitas akut

Produk/bahan	potassium hydroxide/caustic potash
Spesies:	Tikus besar, jantan
Rute Paparan:	Lisan
Uji:	LD50

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Hasil:	333 - 388 mg/kg

Produk/bahan	sodium hydroxidecaustic soda
Hasil:	45.4 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Species:	Kelinci
Uji:	LD 50
Hasil:	500 mg/kg

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Iritasi/korosif

Produk/bahan	iT.33 laundry booster pro
Hasil:	Efek tak diinginkan teramat (Menimbulkan iritasi parah)

Produk/bahan	potassium hydroxidecaustic potash
Hasil:	Efek tak diinginkan teramat (Korosif)

Produk/bahan	sodium hydroxidecaustic soda
Hasil:	Efek tak diinginkan teramat (Menimbulkan iritasi)

Menyebabkan luka bakar yang parah pada kulit dan kerusakan mata.

Kerusakan/iritasi mata berat

Produk/bahan	iT.33 laundry booster pro
Hasil:	Efek tak diinginkan teramat (Menyebabkan kerusakan serius pada mata)

Produk/bahan	potassium hydroxidecaustic potash
Hasil:	Efek tak diinginkan teramat (Sangat korosif)

Produk/bahan	sodium hydroxidecaustic soda
Metode pengujian:	OECD 405
Species:	Kelinci
Hasil:	Efek tak diinginkan teramat (Korosif)

Menyebabkan kerusakan serius pada mata.

Kepekaan pernafasan

Produk/bahan	potassium hydroxidecaustic potash
Hasil:	Efek tak diinginkan tidak teramat (tidak membuat peka)

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Kepekaan kulit

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Mutagenisitas sel kuman

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Karsinogenisitas

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Toksisitas reproduktif

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Tosisitas sistemik pada organ target spesifik karena paparan tunggal

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Toksisitas sistemik pada organ target spesifik karena paparan berulang

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Bahaya aspirasi

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

Berpotensi efek kesehatan yang kronis

Efek yang merusak jaringan tubuh: Produk ini mengandung zat-zat dengan sifat yang mengelupas kulit. Uap atau aerosol yang terhirup bisa menimbulkan efek tak diinginkan terhadap paru-paru, berupa iritasi dan terbakar pada organ pernapasan dan juga batuk. Kontak kulit dan kontak mata menimbulkan efek yang tidak bisa dipulihkan.

12: INFORMASI EKOLOGI

12.1. Toksisitas

Produk/bahan	iT.33 laundry booster pro
Spesies:	Andere waterorganismen, Leuciscus idus
Lingkungan:	Air
Durasi:	96 jam
Uji:	LC50
Hasil:	>100 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Spesies:	Bakteri, Pseudomonas putida
Uji:	EC0
Hasil:	>100 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Spesies:	Dafnia, Ceriodaphnia dubia
Durasi:	48 jam
Hasil:	40.4 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Metode pengujian:	OECD 203
Spesies:	Ikan, Oncorhynchus mykiss
Durasi:	96 jam
Uji:	LC50
Hasil:	45.4 mg/L

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

12.2. Ketahanan dan tingkat degradasi

Berdasarkan data yang tersedia, kriteria klasifikasi tidak terpenuhi.

12.3. Potensi bioakumulasi

Produk/bahan	sodium hydroxidecaustic soda
Kesimpulan:	Bioakumulasi tidak diharapkan

12.4. Mobilitas dalam tanah

Data tidak tersedia.

12.5. Hasil penilaian PBT dan vPvB

Campuran/produk ini tidak mengandung zat apa pun yang dianggap memenuhi kriteria yang mengelompokkannya sebagai PBT dan/atau vPvB.

12.6. Efek merugikan lainnya

Tidak diketahui.

13: PEMBUANGAN LIMBAH

Metoda pengolahan limbah

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Produk ini diatur dalam peraturan tentang limbah berbahaya (B3).
Buang isi/wadah ke tempat pembuangan limbah yang disetujui.

Pelabelan khusus

Kemasan

Kemasan yang mengandung sisa-sisa produk harus dibuang bersama produk dengan cara yang sama.

14: INFORMASI TRANSPORTASI

	14.1 UN	14.2 Nama pengapalan yang sesuai	14.3 Kelas	14.4 PG*	14.5 Env**	Informasi Lain:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas bahaya transportasi: 8 Kelas bahaya pengangkutan: 8 Kode klasifikasi: C5 	II	Tidak	Jumlah terbatas: 1 L Kode pembatasan terowongan: (E) Lihat di bawah untuk tambahan informasi
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas bahaya transportasi: 8 Kelas bahaya pengangkutan: 8 Kode klasifikasi: C5 	II	Tidak	Jumlah terbatas: 1 L EmS: F-A S-B Lihat di bawah untuk tambahan informasi
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas bahaya transportasi: 8 Kelas bahaya pengangkutan: 8 Kode klasifikasi: C5 	II	Tidak	Lihat di bawah untuk tambahan informasi

* Kelompok pengemasan

** Bahaya lingkungan

Informasi tamba

Produk ini berada dalam ruang lingkup peraturan pengangkutan barang-barang berbahaya.

ADR / Lihat Tabel A, Bagian 3.2.1 untuk setiap informasi tentang ketentuan khusus, persyaratan, atau peringatan sehubungan dengan pengangkutan. Lihat bagian 5.4.3 untuk petunjuk tertulis tentang mitigasi kerusakan terkait dengan insiden atau kecelakaan dalam pengangkutan.

IMGD / Lihat Bagian 3.2.1 untuk setiap informasi tentang ketentuan khusus, persyaratan, atau peringatan sehubungan dengan pengangkutan.

IATA / Lihat Tabel 4.2 untuk setiap informasi tentang ketentuan khusus, persyaratan, atau peringatan sehubungan dengan pengangkutan.

14.6. Tindakan kehati-hatian khusus bagi pengguna

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Tidak berlaku.

14.7. Transport dalam jumlah besar (bulk) sesuai Annex II MARPOL dan kode IBC

Data tidak tersedia.

15: INFORMASI YANG BERKAITAN DENGAN REGULASI

15.1. Keselamatan, kesehatan dan peraturan lingkungan alam/perundang-undangan spesifik untuk zat atau campuran

Batasan aplikasi:

Terbatas untuk penggunaan industri dan para profesional.
Anak-anak berusia di bawah 18 tidak boleh terpapar produk ini.

Tuntutan akan pendidikan khusus:

Tidak ada persyaratan khusus.

Informasi tambahan:

Tidak berlaku.

Sumber:

Peraturan Pemerintah Republik Indonesia Nomor 74 Tahun 2001 tentang Pengelolaan Bahan Berbahaya dan Beracun
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15.2. Penilaian keamanan kimiawi

Tidak

16. INFORMASI LAIN

Teks lengkap frasa-H sebagaimana yang tercantum pada bagian 3

H290, Dapat menyebabkan korosif terhadap logam.
H302, Berbahaya bila tertelan.
H314, Menyebabkan luka bakar yang parah pada kulit dan kerusakan mata.
H315, Menyebabkan iritasi kulit.
H318, Menyebabkan kerusakan serius pada mata.
H319, Menyebabkan iritasi serius pada mata.

Teks lengkap penggunaan yang sudah dikenal sebagaimana yang tercantum pada bagian 1

Tidak diketahui.

Singkatan dan akronim

ADN = Ketentuan Eropa terkait Pengangkutan Internasional Bahan-Bahan Berbahaya melalui Jalur Pelayaran Dalam Pulau
ADR = Kesepakatan Eropa terkait Pengangkutan Internasional Bahan-Bahan Berbahaya melalui Jalur Darat
ATE = Estimasi Toksisitas Akut
BCF = Faktor Biokonsentrasi
CAS = Layanan Abstrak Kimia
EINECS = Inventaris Eropa untuk Zat-Zat Kimia Komersial yang Sudah Ada
GHS = Sistem Harmonisasi Global untuk Klasifikasi dan Pelabelan Zat-Zat Kimia
IARC = Badan Riset Kanker Internasional
IATA = Asosiasi Transportasi Udara Internasional
IMDG = Bahan-Bahan yang Membahayakan Laut Internasional
LogPow = logaritma koefisien partisi oktanol/air
MARPOL = Konvensi Internasional bagi Pencegahan Polusi Dari Kapal, 1973 sebagaimana diubah berdasarkan Protokol 1978. ("Marpol" = pencemaran laut)
OECD = Organisasi Kerja sama dan Pembangunan Ekonomi

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RID = Peraturan terkait Pengangkutan Internasional Bahan-Bahan Berbahaya dengan Kereta Api

SCL = Batas konsentrasi khusus.

STEL = Batas paparan jangka pendek

STOT-RE = Toksisitas Organ Sasaran Khusus - Paparan Berulang

STOT-SE = Toksisitas Organ Sasaran Khusus - Paparan Tunggal

TWA = Rerata tertimbang waktu

UN = Perserikatan Bangsa-Bangsa

VOC = Senyawa Organik Volatil

Informasi tambahan

Klasifikasi campuran terkait bahaya kesehatan sesuai dengan metode perhitungan yang diberikan oleh Nomor peraturan 23/M-IND/PER/4/2013 (GHS).

Lembar data keselamatan disahkan oleh

Quality & Compliance

Informasi Lain

Perubahan (selaras dengan perubahan besar terakhir (nol pertama menurut versi SDS, lihat bagian 1)) ditandai dengan segitiga.

Informasi dalam lembar data keselamatan ini hanya berlaku untuk produk khusus ini (yang disebutkan di bagian 1) dan tidak serta-merta tepat untuk digunakan bersama dengan zat kimia/produk lain.

Lembar data keselamatan ini hendaknya diberikan kepada pengguna aktual produk ini. Informasi dalam lembar data keselamatan ini tidak boleh digunakan sebagai spesifikasi produk.

Negara-bahasa: ID-id

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

Unique formula identifier (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revision:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

The National Poisons Information Centre (NPIC)

Public: +353 (0) 1 809 2166 (7 days a week, 8am- 10pm)

Healthcare professionals: +353 (0) 1 809 2566 (24 h service)

See also section 4 "First aid measures"

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ General:

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

▼ Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.

(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: Index No.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2119457892-27-XXXX Index No.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

potassium hydroxide;caustic potash

Short term exposure limit (15 minutes) (mg/m³): 2

sodium hydroxide;caustic soda

Short term exposure limit (15 minutes) (mg/m³): 2

2024 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens, Mutagens and Reprotoxic Substances) Regulations (2024).

DNEL

potassium hydroxide;caustic potash

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

sodium hydroxide;caustic soda

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2 %
Long term – Systemic effects - Workers	Dermal	<2 %
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

PNEC

sodium hydroxide;caustic soda

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6.4 mg/L
Freshwater sediment		23 mg/kg TG
Intermittent release		3.1 mg/L
Intermittent release (marine water)		2.3 mg/kg TG
Marine water		0.64 mg/L

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Sewage treatment plant		51 mg/L
Soil		0.853 mg/kg TG

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Pale yellow

▼ *Odour / Odour threshold:*

Mild

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Lower and upper explosion limit (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code:

20 01 29* Detergents containing dangerous substances

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

SEVESO - Categories / dangerous substances:

Not applicable.

Additional information:

Not applicable.

Sources:

Protection of Young Persons (Employment) Act, 1996

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

Unique formula identifier (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revision:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Israel Poison Information Center

Acute poisoning (hotline): 04-7771900 (24h service).

For drug information and consultations pertaining to exposure of pregnant or breast feeding women to drugs, chemicals, and other poisons the center can be called Sundays through Thursdays between 09:00 to 15:00.

See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Israeli Standard SI 2302.

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

▼ *Response:*

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: Index No.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2119457892-27-XXXX Index No.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Israel Poison Information Center hotline: 04-7771900 (24h service) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

sodium hydroxide;caustic soda
Long term exposure limit (OSHA Table Z-1) (mg/m³): 2
Long term exposure limit (ACGIH TLV) (mg/m³): (Ceiling) 2
Ceiling value (NIOSH REL) (mg/m³): 2

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

DNEL

potassium hydroxide;caustic potash

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

sodium hydroxide;caustic soda

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2 %
Long term – Systemic effects - Workers	Dermal	<2 %
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

PNEC

sodium hydroxide;caustic soda

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6.4 mg/L
Freshwater sediment		23 mg/kg TG

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Intermittent release		3.1 mg/L
Intermittent release (marine water)		2.3 mg/kg TG
Marine water		0.64 mg/L
Sewage treatment plant		51 mg/L
Soil		0.853 mg/kg TG

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Pale yellow

▼ *Odour / Odour threshold:*

Mild

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Lower and upper explosion limit (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code:

20 01 29* Detergents containing dangerous substances

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or

accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

SEVESO - Categories / dangerous substances:

Not applicable.

Additional information:

Not applicable.

Sources:

Youth Employment Law, 1953

Prevention of Environmental Nuisances Law 5752-1992

Israeli Standard SI 2302 Part 1 – Dangerous substances and mixtures: Classification, labelling, marking and packaging.

Israeli Standard SI 2302 Part 2 – Transportation: Classification, labelling, marking and packaging.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Israeli Standard SI 2302.

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IL-en

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for INDIA according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IN-en

ÖRYGGISBLAÐ

iT.33 laundry booster pro

1. LIÐUR: AUÐKENNING EFNISINS EÐA BLÖNDUNNAR OG FÉLAGSINS EÐA FYRIRTÆKISINS

1.1. Vörukenni

Viðskiptaheiti:

iT.33 laundry booster pro

UFI:

EMGV-AVQ8-YF2J-F4QE

1.2. Viðeigandi og tilgreind notkun efnis eða blöndu og notkun sem ráðið er frá

Viðeigandi og tilgreind notkun á efninu eða blöndunni:

Þvotta- og hreinsiefni (þar á meðal leysiefni)

Eingöngu ætlað fagmönnum.

Notkun sem ráðið er frá:

Enginn kunnuglegur.

1.3. Upplýsingar um birgi öryggisblaðsins

Fyrirtæki og heimilisfang:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Netfang:

info@hygeniq.com

Dagsetning öryggisblaðs:

14.8.2025

Útgáfa öryggisblaðs:

2.0

Dagsetning fyrri útgáfu:

28.7.2025 (1.0)

1.4. Neyðarsímanúmer

Neyðarlínan: Sími 112.

Eitrunarmiðstöð Landsspítalans. Sími: 543 2222.

Sjá liður 4: Ráðstafanir í skyndihjálp.

2. LIÐUR: HÆTTUGREINING

Flokkað samkvæmt reglugerð (EB) nr. 1272/2008 (CLP).

2.1. Flokkun efnisins eða blöndunnar

Met. Corr. 1; H290, Getur verið ætandi fyrir málma.

Skin Corr. 1A; H314, Veldur alvarlegum bruna á húð og augnskaða.

Eye Dam. 1; H318, Veldur alvarlegum augnskaða.

2.2. Merkingaratriði

Hættumerki:



Viðvörðunorð:

Hætta

Hættusetningar:

Getur verið ætandi fyrir málma. (H290)

Veldur alvarlegum bruna á húð og augnskaða. (H314)

Varnaðarsetningar:

▼ **Almennt:**

Á ekki við.

Fyrirbygging:

Andið ekki að ykkur gufu/úða. (P260)

Notið augnhlífir/hlífðarhanska/hlífðarfatnað. (P280)

▼ **Viðbrögð:**

EF Á HÚÐ (eða í hári): Fjarlægið þegar í stað allan mengaðan fatnað. Skolið húð með vatni eða farið í sturtu. (P303+P361+P353)

BERIST EFNID Í AUGU: Skolið varlega með vatni í nokkrar mínútur. Fjarlægið snertilinsur ef það er auðvelt. Skolið áfram

(P305+P351+P338)

Hringið umsvifalaust í EITRUNARMIDSTÖÐ/lækni. (P310)

Geymsla:

Geymist í tæringarþolnu íláti með tæringarþolnu innra lagi. (P406)

Förgun:

Fargið innihaldi/íláti hjá í samræmi við staðbundnar reglur (P501)

Tilgreining efna sem valda alvarlegum heilsuvandamálum:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Viðbótarmerking:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Aðrar hættur

Viðbótarviðvaranir:

Þessi blanda/vara inniheldur ekki nein efni sem ætlað er að standast kröfur sem flokkar þau sem PBT (þrávirk, lífræn eiturefni sem safnast fyrir í lífverum) og/eða vPvB.

Þessi vara inniheldur engin efni sem teljast til innkirtlatruflana í samræmi við viðmiðanirnar sem settar eru fram í framseldri reglugerð framkvæmdastjórnarinnar (ESB) 2017/2100 eða reglugerð framkvæmdastjórnarinnar (ESB) 2023/707.

3. LIÐUR: SAMSETNING INNIHALDSEFNA/UPPLÝSINGAR UM INNIHALDSEFNI

3.1. Efni

Á ekki við. Þessi vara er blanda.

3.2. ▼ Blöndur

Vara/innihaldsefnis	Auðkenni	% w/w	Flokkun	Tákn
potassium hydroxidecaustic potash	CAS-nr.: 1310-58-3 EB-nr.: 215-181-3 REACH: Vísitala nr. : 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
sodium hydroxidecaustic soda	CAS-nr.: 1310-73-2 EB-nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Vísitala nr. : 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Allar hættu-/áhættusetningar er að finna í liður 16. Notkunartakmörk eru tekin fram í liður 8 ef þau eru tiltæk.

Aðrar upplýsingar

-

4. LIÐUR: RÁÐSTAFANIR Í SKYNDIHLJÁLPI

4.1. Lýsing á ráðstöfunum í skyndihjálpi

Almennar upplýsingar:

Ef slys kemur upp: Hafið samband við lækni eða slysadeild - takið merkið sem er á vörunni eða þetta öryggisblað. Hafið samband við lækni ef vafi er á heilsufari viðkomandi eða ef einkennin stöðvast ekki. Gefið aldrei einstaklingi sem misst hefur meðvitund vatn eða annað álíka.

Innöndun:

Öndunarerfiðleikar eða erting í öndunarfærum: Komið viðkomandi á svæði þar sem hann/hún getur fengið ferskt loft og verið áfram með viðkomandi.

Snerting við húð:

Skolið útsett svæði með vatni í langan tíma - að minnsta kosti 30 mínútur. Það kann að vera nauðsynlegt að skola í nokkrar klukkustundir. Notaðu þægilegan vatnshita (20-30 °C). Hafðu samband við Poison Upplýsingar/lækni/sjúkrahús til að fá frekari ráðleggingar um eftirfylgni og meðferð. Takið viðkomandi úr fötum og skóm sem komist hafa í snertingu við efnið. Ef efnið hefur komist í snertingu við húðsvæði skal skola þau rækilega með vatni og sápu. Hægt er að nota húðhreinis. NOTIÐ EKKI leysiefni eða þynni. Ef efnið ertir húð: Leitið lækni.

Snerting við augu:

BERIST EFNIÐ Í AUGU: Skolið augu með vatni (20-30 °C) í a.m.k. 30 mínútur og haldið áfram þar til ertingin stöðvast. Fjarlægjið augnlinsur. Tryggið að skola svæðið undir efri og neðri augnlokunum. Hringið samstundis í lækni. Leitið tafarlausrar læknishjálp og haldið áfram að skola meðan á flutningi stendur.

Inntaka:

Í tilfelli þar sem einstaklingur hefur gleypst efnið skal hafa tafarlaust samband við lækni. Ef viðkomandi er meðvitundarlaus skal gefa honum vatn. EKKI láta viðkomandi kasta upp nema slíkt sé ráðlagt af lækni. Látið höfuðið snúa niður á við til að uppgangurinn fari ekki aftur upp í munn og háls. Komið í veg fyrir að viðkomandi fái áfall með því að halda á honum hita og halda honum rólegum. Ef öndun stöðvast skal beita munn við munn aðferðinni. Ef viðkomandi er meðvitundarlaus skal velja honum yfir á hliðina og beygja efri fótlegg við hné og mjöðm. Hringið í sjúkrabíl.

Brunar:

Á ekki við.

4.2. Helstu skaðleg einkenni og áhrif, bæði bráð og tafir

Húðskemmdir: Þessi vara inniheldur ætandi efni. Ef gufu eða úða er andað inn geta lungun skaðast, það valdið ertingu og bruna í öndunarferum en einnig hósta. Ætandi efni valda endanlegum skaða á augum og sýrur brenna húð.

4.3. Upplýsingar um tafarlausa læknisumönnun og sérstaka meðferð sem þörf er á

EF um váhrif eða hugsanleg váhrif er að ræða:

Leitið umsvifalaust læknis.

Upplýsingar fyrir lækna

Takið þetta öryggisblað með eða merkið sem er á vörinni

5. LIÐUR: RÁÐSTAFANIR VEGNA SLÖKKVIÐGERÐA

5.1. Slökkvibúnaður

Á ekki við.

5.2. Sérstakar hættur af völdum efnisins eða blöndunnar

Við eldsvoða mun koma þykkur reykur. Váhrif frálífunaefna geta haft skaðleg áhrif á heilsuna. Lokuð ílát sem eru í snertingu við eld skal kæla með vatni. Látið vatn sem notað er til að slökkva eld ekki renna til skolplagna og annarra vatnsfalla.

Ef varan hefur komist í snertingu við háan hita, s.s. eldsvoða, myndast hættuleg frálífunaefni. Um er að ræða:

Sum málmoxið

5.3. Ráðgjöf fyrir slökkviliðsmenn

Nauðsynlegt er að nota öndunarbúnað með loftbirgðum og hlífðarföt til að koma í veg fyrir snertingu.

6. LIÐUR: RÁÐSTAFANIR EF EFNI FER ÓVART TIL SPILLIS EÐA ER LOSAÐ FYRIR SLYSNI

6.1. Öryggisráðstafanir fyrir fólk, hlífðarbúnaður og neyðarráðstafanir

Forðist beina snertingu við efni sem lekið hefur eða skvest.

Tryggið næga loftræstingu, sérstaklega á lokuðum svæðum.

Menguð svæði geta verið hál.

6.2. Varúðarráðstafanir vegna umhverfisins

Forðist að farga í nánd við stöðuvötn, ár, skolplagnir o.s.frv.

Halðið óviðkomandi aðilum frá lekanum

6.3. Aðferðir og efni til afmörkunar og hreinsunar

Taka af og safna saman leka með óbrennanlegu, ísogandi efni t.d. sandi, jörð, vermikúlít eða kísilgúr og setja í ílát til förgunar í samræmi við staðbundnar reglur.

Svo lengi sem það er hægt skal nota hefðbundin hreinsiefni við þvott. Forðast skal leysiefni.

6.4. Tilvísun í aðra liði

Sjá liður 13 um "Förgun" til að fá upplýsingar um meðhöndlun úrgangs.

Sjá liður 8 um "Váhrifavarnir/persónuhlífar" til að fá upplýsingar um varnaraðgerðir.

7. LIÐUR: MEÐHÖNDLUN OG GEYMSLA

7.1. Varúðarráðstafanir um örugga meðhöndlun

Forðist beina snertingu við vöruna.

Reykingar, neysla matar eða drykkjar og geymsla tóbaks, matar eða drykkjar er óheimil í vinnustofum.

Sjá liður 8 um "Váhrifavarnir/persónuhlífar" til að fá upplýsingar um persónuvernd.

7.2. Örugg geymsluskilyrði, þ.m.t. vegna mögulegs ósamrýmanleika

Ílátum sem hafa verið opnuð verður að loka vel aftur og þau skal geyma upprétt til að koma í veg fyrir leka.

Geymist í tæringarþolnu íláti með tæringarþolnu innra lagi.

Ráðlagt geymsluefni:

Geymið eingöngu í upprunalegum umbúðum.

Geymsluskilyrði:

Þurr, svalur og vel loftræstur staður

Ósamrýmanleg efni:

Sterkar sýrur, sterkir basar, sterk eldmyndandi efni og sterk frálífunarefni.

7.3. Sértek, endanleg notkun

Þessa vöru má einungis nota í þeim tilgangi sem tekinn er fram í liður 1.2.

8. LIÐUR: VÁHRIFAVARNIR/PERSÓNUHLÍFAR

8.1. Viðmiðunarmörk fyrir váhrif

potassium hydroxidecaustic potash

Þakgildi (fimmtán mínútna) (mg/m³): 2

sodium hydroxidecaustic soda

Þakgildi (fimmtán mínútna) (mg/m³): 2

Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (390/2009)

Reglugerð um breytingu á reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum, nr. 390/2009 (631/2021).

DNEL

potassium hydroxidecaustic potash

Tímalengd:	Váhrifaleið:	DNEL:
Langtíma - Staðbundin áhrif - Almennigun	Innöndun	1 mg/m ³
Langtíma - Staðbundin áhrif - Verkamenn	Innöndun	1 mg/m ³

sodium hydroxidecaustic soda

Tímalengd:	Váhrifaleið:	DNEL:
Langtíma - Staðbundin áhrif - Almennigun	Innöndun	1 mg/m ³
Langtíma - Staðbundin áhrif - Verkamenn	Innöndun	1 mg/m ³
Langtíma - Kerfisbundin áhrif - Almennigun	Snerting við húð	2 %
Langtíma - Kerfisbundin áhrif - Verkamenn	Snerting við húð	<2 %

PNEC

sodium hydroxidecaustic soda

Váhrifaleið:	Tímalengd notkunar:	PNEC:

Botnfall í ferskvatni		23 mg/kg TG
Ferskvatn		6.4 mg/L
Jarðvegur		0.853 mg/kg TG
Ósamfelld slepping		3.1 mg/L
Ósamfelld slepping (sjór)		2.3 mg/kg TG
Sjór		0.64 mg/L
Skólpvinnslustöð		51 mg/L

8.2. Takmörkun váhrifa

Athuga skal reglulega samræmi við takmarkanir um snertingu við efnið.

Almennar ráðleggingar:

Reykingar, neysla matar eða drykkjar og geymsla tóbaks, matar eða drykkjar er óheimil í vinnustofum.

Upplýsingar um váhrif:

Ekki eru til neinar sviðsmyndir af váhrifum af þessu efni.

Váhrifamörk:

Notendur efnisins eru verndaðir af atvinnulöggjöf um hámarksstyrk efnisins. Sjá takmörk með tilliti til hollustumála starfsmanna hér að ofan.

Viðeigandi tæknilegar aðgerðir:

Myndun gufu verður vera haldið í lágmarki og fyrir neðan núverandi gildi takmarkanna (sjá að ofan). Mælt er með uppsetningu á staðbundnu útblásturskerfi ef vanalegt loftflæði í vinnuherberginu er ekki nægt. Tryggja skal að neyðarskolun augna og neyðarsturtur séu vandlega merktar.

Gangið úr skugga um að augnskolunarstöðvar og öryggissturtur séu staðsettar innan seilingar.

Viðhafið hefðbundnar varúðarráðstafanir við notkun vörunnar. Forðist innöndun gufa.

Aðgerðir í hollustumálum:

Þegar hlé er tekið eftir að efnið hefur verið notað og þegar notkun þess er lokið skal þvo alla líkamshluta sem komist hafa í snertingu við efnið. Gætið sérstaklega að höndum, framhandleggjum og andliti.

Aðgerðir til að forðast að efnið komist í umhverfið:

Geymið ídræg efni nálægt vinnustaðnum. Safnið saman efni sem hefur lekið á meðan á vinnu stendur ef það er hægt.

Einstaklingsvarnir, s.s. Hlífðarbúnaður

Almennt:

Notið einungis hlífðarbúnað með CE merkingu.

Öndunarbúnaður:

Gerð	Flokkur	Litur	Evrópustaðal	
Ekki er þörf fyrir öndunarhlífur ef loftræsting er fullnægjandi				

Húðhlífur:

Ráðlagt	Gerð/Flokkur	Evrópustaðal	
Nota skal sérstakan vinnuklæðnað	-	-	

Handhlífur:

Vinnuaðstaða	Ráðlagt	Þykkt (mm)	Gegnumbrots-tími (mín.)	Evrópustaðal	
Við langvinn váhrif eða mikinn styrk	Nítrílgúmmí	0.4	> 480	EN374-2, EN16523-1, EN388	
Við skammvinn váhrif eða lítinn styrk	Nítrílgúmmí	1,5	> 30	EN374-2, EN16523-1, EN388	

Augnhlífur:

Gerð	Evrópustaðal	
Notið öryggisgleraugu með hliðarhlíf.	EN166	

9. LIÐUR: EÐLIS- OG EFNAFRÆÐILEGIR EIGINLEIKAR

9.1. Upplýsingar um eðlis- og efnafræðilega grunneiginleika

Form (fasi):

Vökvi

Litur:

Ljós gult

▼ *Lykt / Lykt þröskuld (ppm):*

Milt

pH:

13.5

Eðlismassi (g/cm³):

1,29 (20 °C)

Kinematic seigja:

Engin gögn tiltæk.

Agnaeinkenni:

Á ekki við um vökva.

Fasabreytingar

Bræðslumark/Frystmark (°C):

Engin gögn tiltæk.

Mýktarmark/-svið (°C):

Á ekki við um vökva.

Suðumark (°C):

100

Gufuþrýstingur:

Engin gögn tiltæk.

Hlutfallsleg gufuþéttleiki:

Engin gögn tiltæk.

Niðurbrotshitastig (°C):

Engin gögn tiltæk.

Gögn um eld- og sprengihættu

Kveikjumark (°C):

Engin gögn tiltæk.

Kveiking (°C):

Engin gögn tiltæk.

Sjálfsíkveikjuhitastig (°C):

Engin gögn tiltæk.

Sprengimörk (% v/v):

Engin gögn tiltæk.

Uppleysanleiki

Uppleysanleiki í vatni:

Fullkomlega leysanlegt

n-oktanól/vatnsstuðull (LogKow):

Engin gögn tiltæk.

Uppleysanleiki í fitu (g/L):

Engin gögn tiltæk.

9.2. Aðrar upplýsingar

Aðrar eðlisfræðilegar og efnafræðilegar breytur:

Engin gögn tiltæk.

Oxunareiginleikar:

Engin gögn tiltæk.

10. LIÐUR: STÖÐUGLEIKI OG HVARFGIRNI

10.1. Hvarfgirni

Engin gögn tiltæk.

10.2. Efnafræðilegur stöðugleiki

Varan er stöðug við þær aðstæður sem lýst í liður 7 um "Meðhöndlun og geymsla".

10.3. Möguleiki á hættulegu efnahvarfi

Enginn kunnuglegur.

10.4. Skilyrði sem ber að varast

Enginn kunnuglegur.

10.5. Ósamrýmanleg efni

Sterkar sýrur, sterkir basar, sterk eldmyndandi efni og sterk frálífunarefni.

10.6. Hættuleg niðurbrotsefni

Varma niðurbrot getur myndað ætandi gufur.

11. LIÐUR: EITUREFNAFRÆÐILEGAR UPPLÝSINGAR

11.1. Upplýsingar um eiturefnafræðileg áhrif

Bráð eiturrhif

Vara/innihaldsefnis	potassium hydroxidecaustic potash
Tegund:	Rotta, karltegundir
Váhrifaleið:	Inntaka
Próf:	LD50

Niðurstaða: 333 - 388 mg/kg

Vara/innihaldsefnis sodium hydroxidecaustic soda
Niðurstaða: 45.4 mg/L

Vara/innihaldsefnis sodium hydroxidecaustic soda
Tegund: Kanína
Próf: LD lo
Niðurstaða: 500 mg/kg

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Húðæting/húðerting

Vara/innihaldsefnis iT.33 laundry booster pro
Niðurstaða: Vart varð við aukaverkanir (Mjög ertandi)

Vara/innihaldsefnis potassium hydroxidecaustic potash
Niðurstaða: Vart varð við aukaverkanir (Tærandi)

Vara/innihaldsefnis sodium hydroxidecaustic soda
Niðurstaða: Vart varð við aukaverkanir (Ertandi)

Veldur alvarlegum bruna á húð og augnskaða.

Alvarlegur augnskaði/augnerting

Vara/innihaldsefnis iT.33 laundry booster pro
Niðurstaða: Vart varð við aukaverkanir (Veldur alvarlegum augnskaða)

Vara/innihaldsefnis potassium hydroxidecaustic potash
Niðurstaða: Vart varð við aukaverkanir (Mjög tærandi)

Vara/innihaldsefnis sodium hydroxidecaustic soda
Prófunaraðferð: OECD 405
Tegund: Kanína
Niðurstaða: Vart varð við aukaverkanir (Tærandi)

Veldur alvarlegum augnskaða.

Næming öndunarfæra

Vara/innihaldsefnis potassium hydroxidecaustic potash
Niðurstaða: Ekki vart við neinar aukaverkanir (ekki næmandi)

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Húðnæming

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Stökkbreytandi áhrif á kímfrumur

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Krabbameinsvaldandi áhrif

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Eiturhrif á æxlun

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Sértæk eiturhrif á marklíffæri – váhrif í eitt skipti

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Sértæk eiturhrif á marklíffæri – endurtekin váhrif

Miðað við fáanleg gögn eru flokkunarskilyrði ekki uppfyllt.

Ásvelgingarhætta

Miðað við fánleg gögn eru flokkunarskilyrði ekki uppfyllt.

11.2. Upplýsingar um aðrar hættur

Langvarandi áhrif

Húðskemmdir: Þessi vara inniheldur ætandi efni. Ef gufu eða úða er andað inn geta lungun skaðast, það valdið ertingu og bruna í öndunarferum en einnig hósta. Ætandi efni valda endanlegum skaða á augum og sýrur brenna húð.

Innkirtlatruflandi eiginleikar

Þessi blanda/vara inniheldur engin efni sem talin eru hafa hormónatruflandi eiginleika í tengslum við heilsu.

Aðrar upplýsingar

Enginn kunnuglegur.

12. LIÐUR: VISTFRÆÐILEGAR UPPLÝSINGAR

12.1. Visteiturhrif

Vara/innihaldsefnis	iT.33 laundry booster pro
Tegund:	Andere waterorganismen, Leuciscus idus
Umhverfi:	Vatn
Tímalengd:	96 klst.
Próf:	LC50
Niðurstaða:	>100 mg/L

Vara/innihaldsefnis	sodium hydroxidecaustic soda
Tegund:	Bakteríur, Pseudomonas putida
Próf:	EC0
Niðurstaða:	>100 mg/L

Vara/innihaldsefnis	sodium hydroxidecaustic soda
Tegund:	Krabbasvif, Ceriodaphnia dubia
Tímalengd:	48 klst.
Niðurstaða:	40.4 mg/L

Vara/innihaldsefnis	sodium hydroxidecaustic soda
Prófunaraðferð:	OECD 203
Tegund:	Fiskur, Oncorhynchus mykiss
Tímalengd:	96 klst.
Próf:	LC50
Niðurstaða:	45.4 mg/L

Miðað við fánleg gögn eru flokkunarskilyrði ekki uppfyllt.

12.2. Þrávirkni og niðurbjótanleiki

Miðað við fánleg gögn eru flokkunarskilyrði ekki uppfyllt.

12.3. Uppsöfnun í lífverum

Vara/innihaldsefnis	sodium hydroxidecaustic soda
Niðurstaða:	Ekki er búist við uppsöfnun í lífverum

12.4. Hreyfanleiki í jarðvegi

Engin gögn tiltæk.

12.5. Niðurstöður úr mati á PBT- og vPvB-eiginleikum.

Þessi blanda/vara inniheldur ekki nein efni sem ætlað er að standast kröfur sem flokkar þau sem PBT (þrávirk, lífræn eiturefni sem safnast fyrir í lífverum) og/eða vPvB.

12.6. Innkirtlatruflandi eiginleikar

Þessi blanda/vara inniheldur engin efni sem talin eru hafa innkirtlatruflandi eiginleika í tengslum við umhverfið.

12.7. Önnur skaðleg áhrif

Enginn kunnuglegur.

13. LIÐUR: FÖRGUN

13.1. Aðferðir við meðhöndlun úrgangs

Um vöruna gilda reglugerðir varðandi hættulegan úrgang. (*)

HP 8 - Ætandi

Fargið innihaldi/íláti hjá í samræmi við staðbundnar reglur.

Reglugerð framkvæmdastjórnarinnar (ESB) nr. 1357/2014 frá 18. desember 2014 um úrgang.

EWC-kóði:

20 01 29*

Hreinsiefni sem innihalda hættuleg efni

Samsettar umbúðir

Umbúðir sem innihalda leifar af efninu skal farga á sama hátt og vörunni á að farga.

14. LIÐUR: UPPLÝSINGAR UM FLUTNINGA

	14.1 UN	14.2 Nafn/lýsing	14.3 Flokkur	14.4 PG*	14.5. Env**	Aðrar upplýsingar:
ADR	UN1719	ÆTANDI LÚTKENNDUR VÖKVI, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Flokkur: 8 Nr. Varúðarmerkis: 8 Flokkunarkóði: C5 	II	Nei	Takmarkað magn: 1 L Jarðganga- kóði: (E) Sjá hér að neðan til að fá frekari upplýsinga r.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Flokkur: 8 Nr. Varúðarmerkis: 8 Flokkunarkóði: C5 	II	Nei	Takmarkað magn: 1 L EmS: F-A S- B Sjá hér að neðan til að fá frekari upplýsinga r.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Flokkur: 8 Nr. Varúðarmerkis: 8 Flokkunarkóði: C5 	II	Nei	Sjá hér að neðan til að fá frekari upplýsinga r.

* Pökkunarflokkur

** Umhverfishættur

Viðbótarupplýsingar

Um þessa vöru gilda tilskipanir varðandi hættuleg efni.

ADR / Sjá töflu A, kafla 3.2.1 til að fá upplýsingar um sérstök ákvæði, kröfur eða viðvaranir sem tengjast flutningum. Sjá kafla 5.4.3 til að fá leiðbeiningar um ritun mildun skemmda sem tengjast atvikum eða slysa við flutning.

IMGD / Sjá kafla 3.2.1 til að fá upplýsingar um sérstök ákvæði, kröfur eða viðvaranir sem tengjast flutningum.

IATA / Sjá töflu 4.2 til að fá upplýsingar um sérstök ákvæði, kröfur eða viðvaranir sem tengjast flutningum.

14.6. Sérstakar varúðarráðstafanir fyrir notanda

Á ekki við.

14.7. Flutningar búlkafarms skv. II. viðauka við MARPOL-samninginn og IBC-kóðanum.

Engin gögn tiltæk.

15. LIÐUR: UPPLÝSINGAR VARÐANDI REGLUVERK

15.1. Sértæk ákvæði/löggjöf fyrir efnið eða blönduna vegna öryggis, heilbrigðis og umhverfis

Takmarkanir á notkun:

Eingöngu ætlað fagmönnum.

Einstaklingar sem ekki eru orðnir 18 ára mega ekki verða fyrir váhrifum efnisins.

Beiðnir um sérstaka þjálfun:

Engar sérstakar kröfur.

SEVESO:

Á ekki við.

Viðbótarupplýsingar:

Á ekki við.

Heimildir:

Tilskipun Evrópusambandsins nr. 94/33/EB um vinnuvernd barna og ungmenna.

Reglugerð Evrópuþingsins og Ráðsins (EB) nr. 648/2004 frá 31. mars 2004 um votta- og hreinsiefni.

Reglugerð framkvæmdastjórnarinnar (ESB) nr. 1357/2014 frá 18. desember 2014 um úrgang.

Reglugerð (EB) nr. 1272/2008 (CLP) um flokkun, merkingu og umbúðir efna og blanda (með áorðnum breytingum).

Reglugerð framkvæmdastjórnarinnar (ESB) nr. 1907/2006 (REACH).

15.2. Efnaöryggismat

Nei

16. LIÐUR: AÐRAR UPPLÝSINGAR

Allar hættu-/áhættusetningar er að finna í liður 3

H290, Getur verið ætandi fyrir málma.

H302, Hættulegt við inntöku.

H314, Veldur alvarlegum bruna á húð og augnskaða.

H315, Veldur húðertingu.

H318, Veldur alvarlegum augnskaða.

H319, Veldur alvarlegri augnertingu.

Skammstafanir og upphafsstafir

ADR = Evrópusamningnum um millilandaflutninga á hættulegum farmi á vegum

ATE = Matsgildi bráðra eiturhrifa

CAS = Efnafræðileg ágrípsþjónustan

CE = Conformité Européenne

CLP = Reglugerð um flokkun, merkingu og pökkun efna og blanda [Reglugerð (EB) nr. 1272/2008]

CLP-H setning = Hættusetning sem á við um flokkun, merkingu og umbúðir efna og efnablanda (CLPreglugerð)

DNEL = Afleidd áhrifaleysismörk

EC50 = Styrkur í tengslum við 50% svörun

EuPCS = Evrópsk vöruflokkunarkerfi
EWC = Evrópsk skrá yfir úrgang
GWP = Hnattræn hlýnunarmöguleiki
IATA = Alþjóðasamtök flugflutninga
IMGA = Alþjóðlegur hættulegur varningur til sjós
IMO = Alþjóðasiglingamálastofnunin
LC50 = Miðgildisbanastyrkur
LD50 = 50% drápskammtur
OECD = Efnahags- og framfarastofnun Evrópu
PBT = Efni sem eru þrávirk, safnast upp í lífverum og eru eitruð
PNEC = styrkur þar sem engin áhrif eru fyrirsjáanleg
RRN = REACH-skráningarnúmer
RID = Reglugerðin varðandi alþjóðlegan flutning hættulegs vöru með járnbrautum
RRN = REACH skráningarnúmer
SCL = Um gilda sérstök mörk um styrk.
UVCB = Óþekkt eða breytileg samsetning, flókin hvarfefni eða líffræðilegra efna
vPvB = Efni sem eru mjög þrávirk og safnast upp í lífverum í miklum mæli

Viðbótarupplýsingar

Flokkun blöndunnar með hliðsjón af áhrifum hennar á heilsu er í samræmi við útreikningsaðferðir reglugerðar (EB) nr. 1270/2008 (CLP).

Öryggisblaðið er vottað af

Quality & Compliance

Annað

Breytingar (í samræmi við síðustu meginbreytingu (fyrsti tölustafurinn í SDS-útgáfunni)) eru merktar með þríhyrningi. Upplýsingarnar sem er að finna á þessu öryggisblaði eiga einungis við þessa tilteknu vöru (tekið fram í liður 1) og á ekki endilega við notkun annarra efna/vara.

Ráðlagt er að láta núverandi notanda vörunnar fá þetta öryggisblað. Upplýsingarnar sem er að finna á þessu öryggisblaði er ekki hægt að nota sem vörulýsingu.

Land-tungumál: IS-is

SCHEDA DI DATI DI SICUREZZA

iT.33 laundry booster pro

SEZIONE 1: IDENTIFICAZIONE DELLA SOSTANZA/MISCELA E DELLA SOCIETÀ/IMPRESA

1.1. Identificatore del prodotto

Nome commerciale:

iT.33 laundry booster pro

Identificatore unico di formula (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati

Usi pertinenti identificati della sostanza o miscela:

Detergenti e detergenti (anche a base di solventi)

Uso ristretto agli utilizzatori professionali.

Usi sconsigliati :

Non noto.

1.3. Informazioni sul fornitore della scheda di dati di sicurezza

Nome e indirizzo azienda:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Indirizzo email:

info@hygeniq.com

Revisione:

14/08/2025

Versione SDS:

2.0

Data dell'edizione precedente:

28/07/2025 (1.0)

1.4. Numero telefonico di emergenza

Centri AntiVeleni (CAV) attivi 24 ore al giorno:

Bergamo: Az. Osp. Papa Giovanni XXII. Piazza OMS, 1, 24127. Telefono: 800.88.33.00

Firenze: Az. Osp. "Careggi" U.O. Tossicologia Medica. Largo Brambilla, 3, 50134. Telefono: 055.794.7819

Foggia: Az. Osp. Univ. Foggia. V.le Luigi Pinto, 1, 71122. Telefono: 800.183.459

Milano: Osp. Niguarda Ca' Granda. Piazza Ospedale Maggiore, 3, 20162. Telefono: 02.66.1010.29

Napoli: Az. Osp. "A. Cardarelli". Via A. Cardarelli, 9, 80131. Telefono: 081.545.3333

Pavia: Centro Nazionale di Informazione Tossicologica. Via Salvatore Maugeri, 10, 27100. Telefono: 0382.24.444

Roma: "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA. Piazza Sant'Onofrio, 4, 00165. Telefono: 06.6859.3726

Roma: Policlinico "A. Gemelli". Largo Agostino Gemelli, 8, 168. Telefono: 06-3054343

Roma: Policlinico "Umberto I". V.le del Policlinico, 155, 161. Telefono: 06.4997.8000

Verona: Az. Osp. Integrata Verona. Piazzale Aristide Stefani, 1, 37126. Telefono: 800.011.858

Vedere la sezione 4 sulle misure di primo soccorso.

SEZIONE 2: IDENTIFICAZIONE DEI PERICOLI

Classificato in base al regolamento (EC) n. 1272/2008 (CLP).

2.1. Classificazione della sostanza o della miscela

Met. Corr. 1; H290, Può essere corrosivo per i metalli.

Skin Corr. 1A; H314, Provoca gravi ustioni cutanee e gravi lesioni oculari.

Eye Dam. 1; H318, Provoca gravi lesioni oculari.

2.2. Elementi dell'etichetta

Pittogrammi di pericolo:



Avvertenza:

Pericolo

Indicazioni di pericolo:

Può essere corrosivo per i metalli. (H290)

Provoca gravi ustioni cutanee e gravi lesioni oculari. (H314)

Consigli di prudenza:

▼ *Generale:*

Non applicabile.

Prevenzione:

Non respirare i vapori/la nebbia. (P260)

Indossare proteggere gli occhi/guanti/indumenti protettivi. (P280)

▼ *Reazione:*

IN CASO DI CONTATTO CON LA PELLE (o con i capelli): togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle o fare una doccia. (P303+P361+P353)

IN CASO DI CONTATTO CON GLI OCCHI: sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare. (P305+P351+P338)

Contattare immediatamente un CENTRO ANTIVELENI/medico. (P310)

Conservazione:

Conservare in recipiente provvisto di rivestimento interno resistente. (P406)

Smaltimento:

Smaltire il contenuto/recipiente in conformità alla regolamentazione locale (P501)

Contenuto:

idrossido di potassio;potassa caustica

idrossido di sodio

Altre etichette:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Altri pericoli

Altro:

Questa miscela/prodotto non contiene sostanze che soddisfano i criteri di classificazione PBT e/o vPvB.

Questo prodotto non contiene sostanze considerate interferenti endocrini conformemente ai criteri stabiliti nel regolamento delegato (UE) 2017/2100 della Commissione o nel regolamento (UE) 2023/707 della Commissione.

SEZIONE 3: COMPOSIZIONE/INFORMAZIONI SUGLI INGREDIENTI

3.1. Sostanze

Non applicabile. Questo prodotto è una miscela.

3.2. ▼ Miscele

Prodotto/ingrediente	Identificatori	% w/w	Classificazione	Not.
idrossido di potassio;potassa caustica	n. CAS: 1310-58-3 n. CE: 215-181-3 REACH: n. indice: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
idrossido di sodio	n. CAS: 1310-73-2 n. CE: 215-185-5 REACH: 01-2119457892-27-XXXX n. indice: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Il testo completo delle frasi H è riportato alla sezione 16. I valori limite per l'igiene del lavoro sono riportati alla sezione 8, se disponibili.

Altre informazioni

-

SEZIONE 4: MISURE DI PRIMO SOCCORSO

4.1. Descrizione delle misure di primo soccorso

Generalità:

In caso di incidenti: consultare il medico oppure un ospedale. Portare con sé l'etichetta oppure questa scheda di sicurezza. Il medico potrà rivolgersi alla clinica di medicina ambientale e del lavoro.

In caso di sintomi importanti o in caso di dubbio sulle condizioni di salute, consultare un medico. Non somministrare mai a una persona incosciente acqua o liquidi.

Inalazione:

Nel caso di difficoltà respiratorie o irritazione dell'apparato respiratorio: Portare l'infortunato all'aria fresca e tenerlo sotto controllo.

Contatto con la pelle:

Sciacquare l'area esposta con acqua per lungo tempo - almeno 30 minuti. Potrebbe essere necessario risciacquare per diverse ore. Utilizzare una temperatura dell'acqua confortevole (20-30 °C). Contattare centro antiveneni/medico/ospedale per ulteriori consigli sul follow-up e sul trattamento.

Rimuovere indumenti e scarpe contaminati. Risciacquare abbondantemente la cute entrata in contatto con il materiale con acqua e sapone. È consentito usare detergente, ma non solventi o diluenti.
In caso di irritazione della pelle: consultare un medico.

Contatto con gli occhi:

In caso di contatto con gli occhi: Risciacquare gli occhi con abbondante acqua (20-30 °C) finché l'irritazione non si attenua e per almeno 30 minuti. Rimuovere eventuali lenti a contatto. Cercare di risciacquare palpebre superiori e inferiori. Consultare subito un medico. Chiedere assistenza medica immediatamente e continuare a sciacquare durante il tragitto.

Ingestione:

In caso di ingestione, contattare immediatamente un medico. Somministrare all'infortunato acqua da bere se è cosciente. NON cercare di provocare il vomito a meno che non direttamente consigliato dal medico. Abbassare la testa, in modo che eventuale vomito non risalga nella bocca e nella gola. Prevenire lo shock tenendo l'infortunato al caldo in un ambiente tranquillo. Praticare la respirazione artificiale in caso di difficoltà respiratorie. Se il paziente è incosciente, girarlo di lato e chiamare un'ambulanza.

Combustione:

Non applicabile.

4.2. Principali sintomi ed effetti, sia acuti che ritardati

Effetti sui tessuti: il prodotto contiene sostanze corrosive. Se vengono inalati vapori o aerosol, possono insorgere danni ai polmoni e irritazione e fastidio all'apparato respiratorio, nonché tosse. Le sostanze corrosive provocano danni irreversibili agli occhi e corrodono la pelle.

4.3. Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali

IN CASO di esposizione o di possibile esposizione:

Consultare immediatamente un medico.

Nota per il medico

Portare con sé la presente scheda di sicurezza oppure l'etichetta del materiale.

SEZIONE 5: MISURE DI LOTTA ANTINCENDIO

5.1. Mezzi di estinzione

Non applicabile.

5.2. Pericoli speciali derivanti dalla sostanza o dalla miscela

In caso d'incendio si sviluppa un fumo denso. L'esposizione ai prodotti di degradazione può rappresentare un pericolo per la salute. I contenitori chiusi esposti al fuoco possono essere spenti con acqua. Non versare l'acqua proveniente dagli idranti negli scarichi e nelle fogne.

Se il prodotto viene esposto a temperature elevate, ad es. in caso d'incendio, può dare origine a prodotti di degradazione pericolosi. Essi sono:

Alcuni ossidi di metallo

5.3. Raccomandazioni per gli addetti all'estinzione degli incendi

Normali abiti da lavoro e respiratori completi. In caso di contatto diretto con le sostanze chimiche, contattare il centro antiveneni per ulteriori consigli.

SEZIONE 6: MISURE IN CASO DI RILASCIO ACCIDENTALE

6.1. Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza

Evitare il contatto diretto con la sostanza versata.

Le aree contaminate possono essere scivolose.

6.2. Precauzioni ambientali

Non scaricare il prodotto in laghi, fiumi, scarichi ecc.

Tenere le persone non autorizzate lontane dalla fuoriuscita

6.3. Metodi e materiali per il contenimento e per la bonifica

Contenere e raccogliere i versamenti con materiale non combustibile, assorbente, ad es. sabbia, terra diatomacea e riporre nel contenitore per lo smaltimento ai sensi dei regolamenti locali.

La pulizia viene eseguita per quanto possibile con detergenti. Evitare l'uso di solventi.

6.4. Riferimento ad altre sezioni

Vedere la sezione 13 "Considerazioni sullo smaltimento" sulla gestione dei rifiuti.

Vedere la sezione 8 "Controlli dell'esposizione/protezione individuale" per l'attrezzatura di protezione.

SEZIONE 7: MANIPOLAZIONE E IMMAGAZZINAMENTO

7.1. Precauzioni per la manipolazione sicura

Evitare il contatto diretto con il prodotto.

Non fumare, mangiare né bere nei locali.

Vedere la sezione 8 "Controllo dell'esposizione/protezione individuale" per l'attrezzatura di protezione.

7.2. Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità

I contenitori aperti devono essere accuratamente risigillati e mantenuti dritti per evitare fuoriuscite accidentali del prodotto.

Conservare in recipiente provvisto di rivestimento interno resistente.

Compatibilità degli imballaggi:

Conservare soltanto nell'imballaggio originale.

Condizioni di conservazione:

Asciutto, fresco e ben ventilato

Materiali incompatibili:

Acidi forti, basi forti, ossidanti forti e agenti riducenti forti.

7.3. Usi finali particolari

Questo prodotto deve essere utilizzato solo per gli scopi descritti nella sezione 1.2.

SEZIONE 8: CONTROLLI DELL'ESPOSIZIONE/DELLA PROTEZIONE INDIVIDUALE

8.1. Parametri di controllo

Il prodotto non contiene alcuna sostanza elencata nella lista italiana di sostanze con un limite di esposizione sul posto di lavoro.

DNEL

idrossido di potassio; potassa caustica

Durata:	Via di esposizione:	DNEL:
Lungo termine - effetti locali - lavoratori	Inalazione	1 mg/m ³
Lungo termine - effetti locali - popolazione generale	Inalazione	1 mg/m ³

idrossido di sodio

Durata:	Via di esposizione:	DNEL:
Lungo termine - effetti sistemici - lavoratori	Cutanea	<2 %
Lungo termine - effetti sistemici - popolazione generale	Cutanea	2 %
Lungo termine - effetti locali - lavoratori	Inalazione	1 mg/m ³
Lungo termine - effetti locali - popolazione generale	Inalazione	1 mg/m ³

PNEC

idrossido di sodio

Via di esposizione:	Durata dell'esposizione:	PNEC:
Acqua dolce		6.4 mg/L
Acqua marina		0.64 mg/L
Impianto di trattamento delle acque reflue		51 mg/L
Rilascio intermittente		3.1 mg/L
Rilascio intermittente (acqua marina)		2.3 mg/kg TG
Sedimenti di acqua dolce		23 mg/kg TG
Terreno		0.853 mg/kg TG

8.2. Controlli dell'esposizione

Applicare un controllo generale per evitare un'esposizione non necessaria.

Precauzioni generali:

Non fumare, mangiare né bere nei locali.

Scenari di esposizione:

Non ci sono scenari di esposizione implementati per questo prodotto.

Limiti di esposizione:

Non sono riportati limiti di esposizione per le sostanze contenute nel prodotto.

Misure tecniche:

Garantire che delle postazioni per il lavaggio oculare e delle docce di sicurezza si trovino a poca distanza. Applicare precauzioni standard durante l'uso del prodotto. Evitare l'inalazione di vapori.

Misure igieniche:

Tra una pausa di utilizzo e l'altra del prodotto e al termine del lavoro, lavare accuratamente le parti del corpo che sono venute in contatto con la presente sostanza. Prestare particolare attenzione alle mani, agli avambracci e al viso.

Misure per la limitazione dell'esposizione ambientale:

Quando si opera con questo prodotto, controllare che non vi siano materiali di sbarramento nelle immediate vicinanze. Se possibile, utilizzare vassoio anti-fuoriuscita durante il lavoro.

Misure di protezione individuale, quali dispositivi di protezione individuale

Generalità:

Usare solo equipaggiamento protettivo con il marchio CE.

Vie aeree:

Tipo	Classe	Colore	Norme	
La protezione respiratoria non è necessaria in caso di ventilazione adeguata				

Cute e corpo:

Raccomandato	Tipo/Categoria	Norme	
È necessario utilizzare strumenti di lavoro particolari	-	-	

Mani:

Situazione di lavoro	Materiale	Spessore minimo (mm)	Tempo di permeazione (min.)	Norme	
Nel caso di esposizione prolungata o concentrazioni elevate	Nitrile	0,4	> 480	EN374-2, EN16523-1, EN388	
Nel caso di esposizione per un breve periodo o basse concentrazioni	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Occhi:

Tipo	Norme	
Indossare occhiali di sicurezza con protezioni laterali.	EN166	

SEZIONE 9: PROPRIETÀ FISICHE E CHIMICHE

9.1. Informazioni sulle proprietà fisiche e chimiche fondamentali

Stato fisico:

Liquido

Colore:

Giallo chiaro

▼ *Odore / Soglia olfattiva (ppm):*

Delicato

pH:

13.5

Densità (g/cm³):

1,29 (20 °C)

Viscosità cinematica::

Dati non disponibili.

Caratteristiche delle particelle:

Non si applica ai liquidi.

Modifica di stato e vapore

punto di fusione/punto di congelamento (°C):

Dati non disponibili.

Punto/intervallo di rammollimento (°C):

Non si applica ai liquidi.

Punto di ebollizione (°C):

100

Pressione del vapore:

Dati non disponibili.

Densità di vapore relativa:

Dati non disponibili.

Temperatura di decomposizione (°C):

Dati non disponibili.

Dati relativi al pericolo di incendio e di esplosione

Punto di fiamma (°C):

Dati non disponibili.

Inflammabilità (°C):

Dati non disponibili.

Temperatura di autoaccensione (°C):

Dati non disponibili.

Limite di esplosione (% v/v):

Dati non disponibili.

Solubilità

Solubilità in acqua:

Completamente solubile

Coefficiente n-ottanolo/acqua (LogKow):

Dati non disponibili.

Solubilità in grassi (g/L):

Dati non disponibili.

9.2. Altre informazioni

Altri parametri fisici e chimici:

Dati non disponibili.

Proprietà ossidanti:

Dati non disponibili.

SEZIONE 10: STABILITÀ E REATTIVITÀ

10.1. Reattività

Dati non disponibili.

10.2. Stabilità chimica

Il prodotto è stabile nelle condizioni riportate nella sezione 7 "Manipolazione e immagazzinamento".

10.3. Possibilità di reazioni pericolose

Non noto.

10.4. Condizioni da evitare

Non noto.

10.5. Materiali incompatibili

Acidi forti, basi forti, ossidanti forti e agenti riducenti forti.

10.6. Prodotti di decomposizione pericolosi

La decomposizione termica può produrre vapori corrosivi.

SEZIONE 11: INFORMAZIONI TOSSICOLOGICHE

11.1. Informazioni sulle classi di pericolo definite nel regolamento (CE) n. 1272/2008

Tossicità acuta

Prodotto/ingrediente	idrossido di potassio; potassa caustica
Specie:	Ratto, maschio
Via di esposizione:	Orale
Test:	DL50

Conforme al regolamento (CE) n. 1907/2006 (REACH), Allegato II, e successivi adeguamenti introdotti dal regolamento (UE) n. 2020/878

Risultato:	333 - 388 mg/kg

Prodotto/ingrediente	idrossido di sodio
Risultato:	45.4 mg/L

Prodotto/ingrediente	idrossido di sodio
Specie:	Coniglio
Test:	LD 10
Risultato:	500 mg/kg

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Corrosione/irritazione cutanea

Prodotto/ingrediente	iT.33 laundry booster pro
Risultato:	Effetti nocivi osservati (Altamente irritante)

Prodotto/ingrediente	idrossido di potassio;potassa caustica
Risultato:	Effetti nocivi osservati (Corrosivo)

Prodotto/ingrediente	idrossido di sodio
Risultato:	Effetti nocivi osservati (Irritante)

Provoca gravi ustioni cutanee e gravi lesioni oculari.

Lesioni oculari gravi/irritazioni oculari gravi

Prodotto/ingrediente	iT.33 laundry booster pro
Risultato:	Effetti nocivi osservati (Provoca gravi lesioni oculari)

Prodotto/ingrediente	idrossido di potassio;potassa caustica
Risultato:	Effetti nocivi osservati (Altamente corrosivo)

Prodotto/ingrediente	idrossido di sodio
Metodo di prova:	OCSE 405
Specie:	Coniglio
Risultato:	Effetti nocivi osservati (Corrosivo)

Provoca gravi lesioni oculari.

Sensibilizzazione respiratoria

Prodotto/ingrediente	idrossido di potassio;potassa caustica
Risultato:	Nessun effetto nocivo osservato (non sensibilizzante)

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Sensibilizzazione cutanea

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Mutagenicità delle cellule germinali

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Cancerogenicità

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Tossicità per la riproduzione

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Tossicità specifica per organi bersaglio (STOT) — esposizione singola

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Tossicità specifica per organi bersaglio (STOT) — esposizione ripetuta

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

Pericolo in caso di aspirazione

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

11.2. Informazioni su altri pericoli

Effetti cronici

Effetti sui tessuti: il prodotto contiene sostanze corrosive. Se vengono inalati vapori o aerosol, possono insorgere danni ai polmoni e irritazione e fastidio all'apparato respiratorio, nonché tosse. Le sostanze corrosive provocano danni irreversibili agli occhi e corrodono la pelle.

Proprietà di interferenza con il sistema endocrino

In base ai dati disponibili, il prodotto non contiene sostanze elencate nelle principali liste europee di potenziali o sospetti interferenti endocrini con effetti sulla salute umana oggetto di valutazione.

Altre informazioni

Non noto.

SEZIONE 12: INFORMAZIONI ECOLOGICHE

12.1. Tossicità

Prodotto/ingrediente	iT.33 laundry booster pro
Specie:	Andere waterorganismen, Leuciscus idus
Comparto ambientale:	Acqua
Durata:	96 ore
Test:	LC50
Risultato:	>100 mg/L

Prodotto/ingrediente	idrossido di sodio
Specie:	Batteri, Pseudomonas putida
Test:	EC0
Risultato:	>100 mg/L

Prodotto/ingrediente	idrossido di sodio
Specie:	Dafnie, Ceriodaphnia dubia
Durata:	48 ore
Risultato:	40.4 mg/L

Prodotto/ingrediente	idrossido di sodio
Metodo di prova:	OCSE 203
Specie:	Pesce, Oncorhynchus mykiss
Durata:	96 ore
Test:	LC50
Risultato:	45.4 mg/L

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

12.2. Persistenza e degradabilità

Sulla base dei dati disponibili i criteri di classificazione non sono soddisfatti.

12.3. Potenziale di bioaccumulo

Prodotto/ingrediente	idrossido di sodio
Conclusione:	Non è previsto alcun bioaccumulo

12.4. Mobilità nel suolo

Dati non disponibili.

12.5. Risultati della valutazione PBT e vPvB

Questa miscela/prodotto non contiene sostanze che soddisfano i criteri di classificazione PBT e/o vPvB.

12.6. Proprietà di interferenza con il sistema endocrino

Questa sostanza/miscela non contiene componenti considerati aventi proprietà di interferenza endocrina in relazione all'ambiente.

12.7. Altri effetti avversi

Non noto.

SEZIONE 13: CONSIDERAZIONI SULLO SMALTIMENTO

13.1. Metodi di trattamento dei rifiuti

Il materiale non utilizzato può essere smaltito in accordo alle norme vigenti relativamente ai rifiuti speciali assimilabili agli urbani. (*)

HP 8 - Corrosivo

Smaltire il prodotto/recipiente in punti di raccolta per rifiuti pericolosi o speciali.

Regolamento (UE) n. 1357/2014 della Commissione del 18 dicembre 2014 relativo ai rifiuti.

Codice CER:

20 01 29*

Detergenti contenenti sostanze pericolose

Imballaggio contaminato

Gli imballaggi contenenti piccoli resti del prodotto devono essere smaltiti allo stesso modo del prodotto.

SEZIONE 14: INFORMAZIONI SUL TRASPORTO

	14.1 ONU	14.2 Designazione ufficiale ONU di trasporto	14.3 Classi di pericolo connesso al trasporto	14.4 PG*	14.5. Env**	Altre informazio ni:
ADR	UN1719	LIQUIDO ALCALINO CAUSTICO N.A.S. (idrossido di potassio;potassa caustica, idrossido di sodio)	Classe: 8 Etichette: 8 Codice di classificazione: C5 	II	No	Quantità limitate: 1 L Codice di restrizione in galleria: (E) Vedere qui di seguito per maggiori informazio ni.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Etichette: 8 Codice di classificazione: C5 	II	No	Quantità limitate: 1 L EmS: F-A S- B Vedere qui di seguito per maggiori informazio ni.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Classe: 8 Etichette: 8 Codice di classificazione: C5	II	No	Vedere qui di seguito per maggiori

	14.1 ONU	14.2 Designazione ufficiale ONU di trasporto	14.3 Classi di pericolo connesso al trasporto	14.4 PG*	14.5. Env**	Altre informazio ni:
						informazio ni.

* Gruppo d'imballaggio

** Pericoli per l'ambiente

Altro

Il prodotto rientra nell'elenco delle merci pericolose.

ADR / Vedere Tabella A, Sezione 3.2.1 per eventuali informazioni su misure, requisiti o avvertenze speciali riguardanti il trasporto. Vedere la sezione 5.4.3, per quanto attiene istruzioni scritte sulla mitigazione dei danni in caso di incidenti durante il trasporto.

IMGD / Vedere la sezione 3.2.1 per eventuali informazioni su misure, requisiti o avvertenze speciali riguardanti il trasporto.

IATA / Vedere Tabella 4.2 per eventuali informazioni su misure, requisiti o avvertenze speciali riguardanti il trasporto.

14.6. Precauzioni speciali per gli utilizzatori

Non applicabile.

14.7. Trasporto marittimo alla rinfusa conformemente agli atti dell'IMO

Dati non disponibili.

SEZIONE 15: INFORMAZIONI SULLA REGOLAMENTAZIONE

15.1. Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela

Limitazioni d'uso:

Uso ristretto agli utilizzatori professionali.

Il prodotto non deve essere utilizzato a livello professionale dai minori di anni 18.

Esigenza di istruzioni particolari:

Nessun requisito particolare.

SEVESO - Categorie / Sostanze pericolose:

Non applicabile.

Altro:

Non applicabile.

Fonti:

Attuazione della direttiva 94/33/CE relativa alla protezione dei giovani sul lavoro.

Regolamento (CE) n. 648/2004 del Parlamento europeo e del Consiglio, del 31 marzo 2004, relativo ai detersivi.

Regolamento (UE) n. 1357/2014 della Commissione del 18 dicembre 2014 relativo ai rifiuti.

Regolamento (CE) n. 1272/2008 del Parlamento europeo e del Consiglio del 16 dicembre 2008 relativo alla classificazione, all'etichettatura e all'imballaggio delle sostanze e delle miscele (CLP).

Regolamento (CE) n. 1907/2006 del Parlamento europeo e del Consiglio, del 18 dicembre 2006, concernente la registrazione, la valutazione, l'autorizzazione e la restrizione delle sostanze chimiche (REACH).

15.2. Valutazione della sicurezza chimica

No

SEZIONE 16: ALTRE INFORMAZIONI

Il testo completo delle frasi H è riportato nella sezione 3

H290, Può essere corrosivo per i metalli.
H302, Nocivo se ingerito.
H314, Provoca gravi ustioni cutanee e gravi lesioni oculari.
H315, Provoca irritazione cutanea.
H318, Provoca gravi lesioni oculari.
H319, Provoca grave irritazione oculare.

Abbreviazioni e acronimi

ADN = Norme Europee relative al Trasporto Internazionale di Merci Pericolose per Vie Navigabili Interne
ADR = Accordo Europeo relativo al Trasporto Internazionale di Merci Pericolose su Strada
ATE = Stima della Tossicità Acuta
BCF = Fattore di Bioconcentrazione
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CER = Catalogo Europeo dei Rifiuti
CLP = Classificazione, Etichettatura e Imballaggio [Regolamento (CE) N. 1272/2008]
CSA = Valutazione sulla Sicurezza Chimica
CSR = Relazione sulla Sicurezza Chimica
DMEL = Livello derivato con effetti minimi
DNEL = Livello derivato senza effetto
EINECS = Inventario Europeo delle Sostanze chimiche Esistenti a carattere Commerciale
ES = Scenario di Esposizione Indicazione
EUH = disposizioni di rischio specifiche al regolamento CLP
EuPCS = Sistema europeo di categorizzazione dei prodotti
GHS = Sistema Mondiale Armonizzato di Classificazione ed Etichettatura delle Sostanze Chimiche
GWP = Potenziale di riscaldamento globale
IATA = Associazione Internazionale per il Trasporto Aereo
IBC = Contenitori Bulk
IMDG = Trasporto Marittimo Internazionale di Merci Pericolose
Log Kow = log del coefficiente di ripartizione ottanolo/acqua
MARPOL = Convenzione Internazionale del 1973 per la Prevenzione dell'Inquinamento causato dalle Navi e il relativo protocollo del 1978
OCSE = Organizzazione per la Cooperazione e lo Sviluppo Economico
ONU = Organizzazione delle Nazioni Unite
PBT = Persistente, Bioaccumulante, Tossico
PNEC = Concentrazione Prevedibile Priva di Effetti
RID = I Regolamenti concernenti il Trasporto Internazionale di Merci Pericolose per Ferrovia
RRN = Numero REACH di Registrazione
rc = gli altri rifiuti soggetti a controllo
rcm = gli altri rifiuti soggetti a controllo con obbligo di modulo di accompagnamento
rs = rifiuti speciali
SCL = Limite di concentrazione specifico
SVHC = Sostanze Molto Pericolose
STOT = Tossicità Specifica per Organi Bersaglio - Esposizione Ripetuta
STOT = Tossicità Specifica per Organi Bersaglio - Esposizione Singola
TWA = Media ponderata nel tempo
UVCB = Indica sostanze di composizione sconosciuta o variabile, prodotti di una reazione complessa o materiali biologici.
VOC = Composti Organici Volatili
vPvB = Molto Persistente e Molto Bioaccumulabile

Altro

La classificazione della miscela con riguardo ai pericoli per la salute è conforme al metodi di calcolo fornito dal Regolamento CE n. 1272/2008 (CLP).

Convalidato da

Quality & Compliance

Altro

La presenza di un triangolo indica una modifica rispetto alla versione precedente (primo numero nella versione SDS, vedere sezione 1).

Le indicazioni riportate nella presente scheda di dati di sicurezza si applicano esclusivamente al prodotto indicato nella sezione 1 e non si applicano necessariamente in caso di utilizzo con altri prodotti.

Si consiglia di consegnare la presente scheda di dati di sicurezza all'utente del prodotto. Le informazioni riportate non possono essere utilizzate come specifiche prodotto.

Nazione-lingua: IT-it

安全データシート

iT.33 laundry booster pro

項目 1: 物質/製剤および会社/企業の特定

1.1. 製品識別子

製品名:
iT.33 laundry booster pro

1.2. 推奨用途及び使用上の制限

物質または混合物で関連の特定使用:
洗剤および洗淨剤 (溶剤系を含む)
産業用専用。

対提言使用:
不明。

1.3. 安全データシートの供給業者の詳細

会社と住所:
Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

電子メール:
info@hygeniq.com

SDS 日付:
2025/08/14

SDS バージョン:
2.0

前作成日:
2025/07/28 (1.0)

1.4. 緊急連絡用電話番号 (受付時間)

緊急時には119 (24時間サービス) に電話すること
公益財団法人 日本中毒情報センター : +81-72-727-2499
項目4を参照 : 応急措置

項目2: 危険有害性の要約

JISZ7252に基づく分類。

2.1. 物質または混合物の分類

Met. Corr. 1; H290, 金属腐食のおそれ

Skin Corr. 1A; H314, 重篤な皮膚の薬傷・眼の損傷
Eye Dam. 1; H318, 重篤な眼の損傷。

2.2. ラベル要素

危険有害性の絵文字:



注意喚起語:
危険

危険有害性情報:
金属腐食のおそれ (H290)
重篤な皮膚の薬傷・眼の損傷 (H314)

注意書き:

▼ 概要:
該当なし.

安全対策:
蒸気/ミストを吸入しないこと (P260)
保護眼鏡/保護手袋/保護衣着用すること。 (P280)

応急措置:
皮膚(または髪)に付着した場合:直ちに汚染された衣類をすべて脱ぐこと。皮膚を水【またはシャワー】で洗うこと。 (P303+P361+P353)
眼に入った場合:水で数分間注意深く洗うこと。次にコンタクトレンズを着用していて容易に外せる場合は外すこと。その後も洗浄を続けること。 (P305+P351+P338)

保管:
耐腐食性/耐腐食性内張りのある容器に保管すること。 (P406)

廃棄:
内容物/容器を現地の規制に廃棄すること。 (P501)

危険有害性成分:
potassium hydroxidecaustic potash
sodium hydroxidecaustic soda

追加ラベル付け:
該当なし.

項目3: 組成及び成分情報

3.1. 成分

該当なし. この製品は混合物です。

3.2. ▼混合物

製品 / 成分	識別子	% w/w	分類	注記
potassium hydroxidecaustic potash	CAS番号 : 1310-58-3 EC番号 : 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	

sodium hydroxidecaustic soda	CAS番号 : 1310-73-2 EC番号 : 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

セクション16のHフレーズの全文を参照のこと。職業ばく露限界は利用可能な場合は、セクション8に記載されている。

その他の情報

項目4: 応急措置

4.1. 応急処置の解説

一般情報:

事故の場合：医師または緊急部門に連絡すること - ラベルまたはこの安全データシートを持参する。
被害者の状態に疑問がある場合、または症状が継続する場合は、医師に連絡すること。絶対に意識不明の人に水やその他の飲み物を与えないこと。

吸入した場合:

呼吸困難や気道を刺激した場合：被害者が新鮮な空気を吸える場所に移動し、一緒に付き添う。

皮膚に付着した場合:

露出した部分を長時間（少なくとも30分）水で洗い流す。数時間流す必要がある場合もあります。快適な水温（20-30 °C）を使用すること。毒物情報/医師/病院に連絡し、経過観察および治療に関する詳しいアドバイスを受ける。
汚染された衣類や靴を直ちに引き除くこと。必ずばく露した皮膚を水と石鹸で十分に洗う。皮膚清拭剤も使用できる。
溶剤やシンナーは絶対に使用しない。
皮膚刺激が生じた場合:医師の診察/手当てを受けること。

眼に入った場合:

眼に入った場合:十分な水または食塩水(20-30 °C)で少なくとも30分間目を洗い、刺激が止まるまで続ける。コンタクトレンズを外すこと。上下まぶたの下も洗うこと。直ちに医師の診断を受け、続けて洗うこと。直ちに医師の診察を受け、移送中には洗い流しを続けます。

飲み込んだ場合:

摂取の場合は、安全データシートまたはラベルを持参して、直ちに医師に連絡すること。被害者の意識がある場合は、水を与える。医師の勧めがない限り、絶対に嘔吐を誘発しないこと。嘔吐物が口や喉に戻るのを防ぐために頭を下にして押さえる。被害者を暖かくして落ち着かせ、ショックを防ぐこと。呼吸が止まったら直ちに蘇生を開始すること。意識不明の場合は、被害者を回復体位にすること。救急車を呼ぶこと。

やけど:

該当なし。

4.2. 重大な症状と作用の大部分には、急性および遅延性の両方がある

組織への有害な影響：この製品には、皮膚腐食性の物質が含まれている。吸入した蒸気またはエアロゾルは呼吸器の刺激ややけどのほか、咳など肺への副作用を発生させる。皮膚や眼との接触は不可逆的な作用を起こす。

4.3. 何らかの即時の手当および特別な治療が必要とされることの表示

ばく露またはばく露の懸念がある場合:
直ちに医師に診察/手当てを受けること。

医師に対する特別な注意事項

この安全データシートを持参のこと。

項目5: 火災時の措置

5.1. 消火剤

該当なし.

5.2. 物質または混合物から生じる特別な危険有害性

火は濃い煙をもたらす。燃焼製品にさらされると、健康に害を及ぼす可能性がある。火にさらされた密閉容器は、水で冷却するべきである。絶対に、消火水が下水や近くの地表水に入らないようにする。

例えば火災など製品が高温にさらされた場合、危険な分解化合物が生成される。これらは次がある：

金属酸化物の一部

5.3. 消防士に対する助言

接触を防ぐために、自給式呼吸装置と防護服を着用すること。直接ばく露した場合は、引き続き助言を得るために緊急サービス（119）に連絡すること。

項目6: 漏出時の措置

6.1. 人体に対する注意事項、保護具及び緊急時措置

流出した物質との直接接触は避けること。

とりわけ密閉区域における換気を適切に行うようにする。

汚染区域は滑りやすい場合がある。

6.2. 環境に対する注意事項

湖、小川、下水道などへの排出を避けること。

権限のない人を流出から遠ざける

6.3. 封じ込め及び浄化の方法及び機材

不燃性、吸収性物質で流出物を入れて収集します。砂、土、バーミキュライトまたは珪藻土を廃棄し、地元の規制に従って廃棄できるように容器に入れます。

洗浄は可能な限り、通常の洗浄剤で行う。溶剤の使用は避けること。

6.4. 他のセクションを参照

廃棄物取り扱いの追加情報に関してはセクション13を参照。

適切な個人保護装置に関する情報についてはセクション8を参照。

項目7: 取扱い及び保管上の注意

7.1. 安全に取扱うための注意事項

製品との直接接触は避けること。

作業場での喫煙、飲酒、食べ物の摂取は禁止する。

作業保護に関する情報については、「ばく露制御/個人保護」のセクションを参照のこと。

7.2. あらゆる配合禁忌を含む、安全な保管条件

開封した容器は、漏れを防ぐために慎重に再び封じ、直立て保管する必要がある。

耐腐食性/耐腐食性内張りのある容器に保管すること。

推奨保管材料:

他の容器に移し替えないこと。

保管条件:

乾燥、涼しい、十分な換気

混触危険物質:

強酸、強塩基、強酸化剤、及び強い還元剤。

7.3. 特定の最終用途

この製品はセクション1.2で引用した応用のみに使用しなければならない。

項目8: ばく露防止及び保護措置

8.1. 許容濃度

potassium hydroxidecaustic potash

最大許容濃度 (mg/m³): 2

sodium hydroxidecaustic soda

最大許容濃度 (mg/m³): 2

許容濃度等の勧告 (2023-2024年度), 2023年 5月10日 日本産業衛生学会

8.2. 暴露の管理

所定の職業ばく露限界値への準拠は、定期的に制御しなければならない。

一般的な推奨事項:

作業場での喫煙、飲酒、食べ物の摂取は禁止する。

ばく露シナリオ:

"この製品にはばく露シナリオは実装されていない。

暴露限界値:

プロの利用者は職業ばく露のために法的に設定された最大濃度が対象になる。上記の労働衛生限界値を参照のこと。

適切な技術的管理:

蒸気の発生を最小にして、電流を制限値以下に保つ必要があります (上記を参照)。作業室内で通常の空気の流通が十分でない場合、局所排気システムを設置することをお勧めします。緊急洗眼液に明確にマークが付いていることを確認します。

洗眼場と安全シャワーが至近距離にあるようにする。

本製品の使用中には、標準的予防措置が適用されます。蒸気の吸入を避けます。

衛生対策:

製品の使用の間と、作業日の終わりには、体のすべてのばく露部分を徹底的に洗浄する必要がある。手、前腕、顔には特に注意を払います。

環境暴露管理:

職場の近くにせき止め材を保管すること。可能であれば、作業中にこぼれたものを収集すること。

個人の保護措置

一般的:

CEマークが付いた保護具のみを使用すること。

呼吸用保護具:

推奨フィルタの種類	クラス	クラス	標準	
呼吸保護装置は必要ない				

身体保護具:

推奨	タイプ / カテゴリ	標準	
専用作業服	-	-	

手の保護具:

工事状況	材料	手袋の厚さ (mm)	破過時間 (分)	標準	
長期被爆または高濃度の場合	ニトリル ゴム、	0.4	> 480	EN374-2, EN16523-1, EN388	
短期被爆または低濃度の場合	ニトリル ゴム、	1,5	> 30	EN374-2, EN16523-1, EN388	

保護眼鏡/保護面:

推奨	標準	
サイドシールド付き安全メガネ	EN166	

項目9: 物理的及び化学的性質

9.1. 基本的な物理学および化学的特性に関する情報

物理的状態:

液体

色:

ペールイエロー

▼臭い:

マイルド

臭気しきい値 (ppm) :

利用可能なデータなし.

pH:

13.5

比重 (g/cm³):

1.29 (20 °C)

粘度:

利用可能なデータなし.

粒子特性:

液体には適用されません。

フェーズの変更

融点・凝固点 (°C):

利用可能なデータなし.

軟化点/範囲 (°C):

液体には適用されません。

沸点/沸騰範囲 (°C):

100

蒸気圧:

利用可能なデータなし.

蒸気密度:

利用可能なデータなし。

分解温度 (°C):

利用可能なデータなし。

蒸発速度:

火災および爆発の危険性に関するデータ

引火点 (°C):

利用可能なデータなし。

引火性 (°C):

利用可能なデータなし。

自然発火温度 (°C):

利用可能なデータなし。

爆発 (燃焼) 限界の上限および下限 (% v/v):

利用可能なデータなし。

溶解度

水中の溶解度:

完全に溶ける

分配係数 (LogKow):

利用可能なデータなし。

脂肪の溶解度 (g/L) :

利用可能なデータなし。

9.2. その他の情報

揮発性有機化合物(VOC):

その他の物理的および化学的パラメータ:

利用可能なデータなし。

酸化特性:

利用可能なデータなし。

項目 10: 安定性及び反応性

10.1. 反応性

利用可能なデータなし。

10.2. 化学的安定性

製品は「取り扱」と保管」のセクションに記載されている条件下で安定している。

10.3. 危険有害反応可能性

不明。

10.4. 避けるべき条件

不明。

10.5. 混触危険物質

強酸、強塩基、強酸化剤、及び強い還元剤。

10.6. 危険有害な分解生成物

熱分解は、腐食性蒸気を発生させる。

項目 11: 有害性情報

11.1. 毒物学的作用に関する情報

急性毒性

製品 / 成分	potassium hydroxidecaustic potash
種類:	ラット, オス
暴露経路:	経口
テスト:	LD50
結果:	333 - 388 mg/kg

製品 / 成分	sodium hydroxidecaustic soda
結果:	45.4 mg/L

製品 / 成分	sodium hydroxidecaustic soda
種類:	ウサギ
テスト:	LD lo
結果:	500 mg/kg

使用可能なデータを基にすると、分類基準が満たされていません。

刺激性/腐食性

製品 / 成分	iT.33 laundry booster pro
結果:	副作用が認められる (非常に刺激が高い)

製品 / 成分	potassium hydroxidecaustic potash
結果:	副作用が認められる (腐食剤)

製品 / 成分	sodium hydroxidecaustic soda
結果:	副作用が認められる (刺激する)

重篤な皮膚の薬傷・眼の損傷

重篤な眼の損傷/刺激

製品 / 成分	iT.33 laundry booster pro
結果:	副作用が認められる (重篤な眼の損傷)

製品 / 成分	potassium hydroxidecaustic potash
結果:	副作用が認められる (腐食性が強い)

製品 / 成分	sodium hydroxidecaustic soda
試験方法:	OECD 405
種類:	ウサギ
結果:	副作用が認められる (腐食剤)

重篤な眼の損傷。

呼吸器ま感作

製品 / 成分	potassium hydroxidecaustic potash
結果:	副作用は認められない (感作しない)

使用可能なデータを基にすると、分類基準が満たされていません。

皮膚感作

使用可能なデータを基にすると、分類基準が満たされていません。

変異原性

使用可能なデータを基にすると、分類基準が満たされていません。

発がん性

使用可能なデータを基にすると、分類基準が満たされていません。

催奇形性 / 発育への影響

使用可能なデータを基にすると、分類基準が満たされていません。

特定標的臓器 / 全身毒性 (単回暴露)

使用可能なデータを基にすると、分類基準が満たされていません。

特定標的臓器 / 全身毒性 (反復暴露)

使用可能なデータを基にすると、分類基準が満たされていません。

呼吸に対する危険有害性

使用可能なデータを基にすると、分類基準が満たされていません。

健康への慢性効果の可能性

組織への有害な影響：この製品には、皮膚腐食性の物質が含まれている。吸入した蒸気またはエアロゾルは呼吸器の刺激ややけどのほか、咳など肺への副作用を発生させる。皮膚や眼との接触は不可逆的な作用を起こす。

項目 12: 環境影響情報

12.1. 毒性

製品 / 成分	iT.33 laundry booster pro
種類:	Andere waterorganismen, Leuciscus idus
環境:	水
存続期間:	96 時間
テスト:	LC50
結果:	>100 mg/L

製品 / 成分	sodium hydroxidecaustic soda
種類:	バクテリア, Pseudomonas putida
テスト:	EC0
結果:	>100 mg/L

製品 / 成分	sodium hydroxidecaustic soda
種類:	ミジンコ類, Ceriodaphnia dubia
存続期間:	48 時間
結果:	40.4 mg/L

製品 / 成分	sodium hydroxidecaustic soda
試験方法:	OECD 203
種類:	魚類, Oncorhynchus mykiss
存続期間:	96 時間
テスト:	LC50
結果:	45.4 mg/L

使用可能なデータを基にすると、分類基準が満たされていません。

12.2. 残留性・分解性

使用可能なデータを基にすると、分類基準が満たされていません。

12.3. 生体蓄積性

製品 / 成分	sodium hydroxidecaustic soda
結論:	生体濃縮は予期されていない

12.4. 土壌中の移動性

利用可能なデータなし。

12.5. 12.5.PBTおよびvPvB評価の結果

この混合物/製品には、PBTまたはvPvB、もしくはその両者として分類される基準を満たすと考慮される物質は含まれていない。

12.6. その他の悪影響

不明。

項目 13: 廃棄上の注意

廃棄物処理方法

内容物/容器をに廃棄すること。

特定のラベル

汚染された包装

製品の残渣を含む包装は製品と同様に処分する必要がある。

項目 14: 輸送上の注意

	14.1 国連番号	14.2 輸送固有名	14.3 範疇	14.4 PG*	14.5 Env**	その他の情報:
ADR	UN1719	力性アルカリ類（液体）（他に品名が明示されているものを除く。） (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	クラス 等級: 8 等級: 8 Classification code: C5 	II	いいえ	許容質量: 1 L ンネル制限 コード: (E) 追加情報については、 以下を参照してください。
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	クラス 等級: 8 等級: 8 Classification code: C5 	II	いいえ	許容質量: 1 L EmS: F-A S-B 追加情報については、 以下を参照してください。
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	クラス 等級: 8 等級: 8 Classification code: C5 	II	いいえ	追加情報については、 以下を参照してください。

* 容器等級

** 環境有害性

追加情報

この製品は危険物の輸送規制範囲内である。

ADR / 輸送に関連した特別な規定、要求事項又は注意事項に関する情報については3.2.1項の表Aを参照して下さい。輸送中の事件又は事故によって生じた損傷の緩和に関する書面での説明については5.4.3項を参照して下さい。

IMDG / 輸送に関連した特別な規定、要求事項又は注意事項に関する情報については3.2.1項の表Aを参照して下さい。

IATA / 輸送に関連した特別な規定、要求事項又は注意事項に関する情報については4.2.項の表を参照して下さい。

14.6. 使用者のための特別な予防措置

該当なし.

14.7. MARPOL条約の附属書IIおよびIBCコードによるばら積み運搬
利用可能なデータなし.

項目 15: 適用法令

15.1. 物質または混合物ごとに個別に関連する、安全、健康および環境に関する規則/法律

応用の制限:

産業用専用。

18歳未満の方は、本製品へのばく露を避けるべきである。

特定教育に対する要求:

特定の要件なし.

その他の情報:

該当なし.

既存および新規化学物質 (ENCS):

どの化学成分も表示されていない。

毒物及び劇物取締法:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

化管法 (PRTR):

どの化学成分も表示されていない。

有機溶剤中毒予防規則:

どの化学成分も表示されていない。

ソース:

GHS に基づく化学品の分類方法. JIS Z 7252 (2019)

GHS に基づく化学品の危険有害性情報の伝達方法 - ラベル, 作業場内の表示及び安全データシート (SDS). JIS Z 7253 (2019)

項目 16: その他の情報

セクション3に記載のHフレーズ全文

H290, 金属腐食のおそれ

H302, 飲み込むと有害。

H314, 重篤な皮膚の薬傷・眼の損傷

H315, 皮膚刺激。

H318, 重篤な眼の損傷。

H319, 強い眼刺激。

セクション1に記載の識別された使用の全文

不明。

略語と頭字語

ACGIH = アメリカ産業衛生専門家会議

ADN = ヨーロッパ内陸水路危険物運送規定

ADR = ヨーロッパ道路危険物運送条約

ATE = 急性毒性見積

BCF = 生物濃縮係数

CAS = ケミカル・アブストラクト・サービス

EINECS = 欧州既存商業化学物質リスト

GHS = 化学品の分類および表示に関する世界調和システム
IARC = 国際がん研究機関
IATA = 国際航空運送協会
IMDG = 国際海上危険物規程
LogPow = オクタノール／水分配係数の対数
MARPOL = 1978年の議定書によって修正された1973年船舶による汚染防止のための国際条約
NIOSH = 国立労働安全衛生研究所
OECD = 経済協力開発機構
OSHA = 労働安全衛生局
RID = 鉄道による危険物の国際輸送に関する規制
RRN = REACH登録番号
SCL = には特定の濃度限界値 (SCL) がある。
STEL = 短期ばく露限界
STOT-RE = 特定標的臓器毒性 (反復ばく露)
STOT-SE = 特定標的臓器毒性 (単回ばく露)
TWA = 時間加重平均
UN = 国際連合
VOC = 揮発性有機化合物

追加情報

健康被害に関する混合物の分類はJISZ 7252の計算方法に従う。

安全データシートは次により確認される

Quality & Compliance

その他

変更 (最後の本質的な変更 (SDS バージョンの最初の文字、セクション1を参照) に対して) は、青い三角形で表示されている。

この安全データシートの情報はこの特定製品 (セクション1に記載) にのみ適用され、他の化学薬品/製品で使用する場合は必ずしも正しいものではない。

この安全データシートを、製品の実際の利用者に渡すことを推奨する。この安全データシートの情報は製品仕様としては使用できない。

国-言語 : JP-ja

안전 데이터 시트

iT.33 laundry booster pro

1: 물질/제품과 회사 정보

1.1. 제품 식별명

제품명:

iT.33 laundry booster pro

1.2. 제품의 권고 용도와 사용상의 제한

물질 또는 혼합물의 적절한 식별 용도:

세제 및 세정제(솔벤트 기반 세제 포함)

전문 사용자 전용.

권고되는 사용 대상:

알려진 바 없습니다.

1.3. 물질안전보건자료의 공급자에 대한 자세한 사항

회사 세부정보:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

이메일:

info@hygeniq.com

SDS 날짜:

2025. 8. 14.

SDS 버전:

2.0

이전 호 발행일:

2025. 7. 28. (1.0)

1.4. 긴급전화번호

응급의료센터: 1339(24시간 서비스)

섹션 4: 응급조치

2: 유해성·위험성

화학물질의 분류 표시 및 물질안전보건자료에 관한 기준(고용노동부 제2023-9호)에 따라 분류합니다.

2.1. ▼ 물질 또는 혼합물의 분류

Met. Corr. 1; H290, 금속을 부식시킬 수 있음.

Eye Dam. 1; H318, 눈에 심한 손상을 일으킴.

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

2.2. 표지 요소

유해 그림문자:



신호어:

위험

▼ 유해·위험 문구:

금속을 부식시킬 수 있음. (H290)

눈에 심한 손상을 일으킴. (H318)

예방조치 문구:

▼ 일반:

해당사항 없음.

예방:

보안경/보호장갑/보호의 착용하십시오. (P280)

대응:

눈에 묻으면 몇 분간 물로 조심해서 씻으십시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으십시오. (P305+P351+P338)

즉시 의료기관(의사)의 진찰을 받으십시오. (P310)

물질손상을 방지하기 위해 누출물을 흡수시키십시오. (P390)

저장:

금속부식성 물질이므로(제조사 또는 행정관청에서 정한) 내부식성 용기에 보관하십시오. (P406)

▼ 폐기:

해당사항 없음.

내용량, 성분 및 함유량:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

추가 라벨링:

해당사항 없음.

3: 구성성분의 명칭 및 함유량

3.1. 물질

해당사항 없음. 이 제품은 혼합물입니다.

3.2. ▼ 혼합물

제품/성분	식별자	% w/w	분류	참고
물	CAS번호: 7732-18-5 EC: 231-791-2	80-95%		
potassium hydroxidecaustic potash	CAS번호: 1310-58-3 EC: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1, H314 Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxidecaustic soda	CAS번호: 1310-73-2 EC: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1, H314 Skin Irrit. 2, H315 (SCL: 0.50 %)	

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

			Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

섹션 16에 언급된 H-문구 전문을 참조하십시오. 작업장 노출 한도 자료가 있을 경우 섹션 8에 나옵니다.

그 밖의 참고사항

4: 응급조치 요령

4.1. ▼응급조치에 관한 기술

일반:

사고의 경우: 의사 또는 사상자 부서에 문의하고 (119) 라벨이나 이 물질 안전 보건자료를 지참하십시오.
부상 당한 사람의 상태가 의심되거나 증상이 지속되면 의사에게 문의하십시오. 의식이 없는 사람에게 물이나 다른 음료를 주지 마십시오.

흡입했을 때:

호흡 곤란 또는 호흡기 자극 시: 사람을 신선한 공기가 있는 곳으로 데려가서 함께 머무십시오.

▼ 피부에 접촉했을 때:

자극 시: 물로 행굽니다. 자극이 계속되면 의학적 도움을 받으십시오.

눈에 들어갔을 때:

눈에 묻으면: 다량의 물 또는 바닷물(20-30 °C)로 30분 이상 눈을 씻고 자극이 멈출 때까지 계속하십시오. 콘택트렌즈를 빼십시오. 위아래 눈꺼풀 밑을 씻어 내십시오. 즉시 의료 지원을 요청하고 세척을 계속하십시오.

먹었을 때:

의식이 있을 경우 물로 입을 행군 뒤 곁에 있으십시오. 증상이 있으면 즉시 의사의 진단을 받고 이 물질 안전 보건자료나 라벨을 가져가십시오. 의사가 권장하지 않는 한 구토를 유도하지 마십시오. 피해자가 구토물을 흡입하거나 질식하는 일이 없도록 머리를 아래로 하여 몸을 앞으로 숙이도록 하십시오.

화상:

해당사항 없음.

4.2. 가장 중요한 급성 및 지연 증상과 영향

제품에는 심각한 눈 손상을 일으키는 물질이 포함되어 있습니다. 이러한 물질과 접촉하면 눈에 돌이킬 수 없는 영향을 주거나 심각한 눈 손상을 일으킬 수 있습니다.

4.3. 즉시 필요한 의학적 주의사항 및 특별한 처치 지침

노출 또는 노출이 우려되면
즉시 의학적인 조치·조언을 구하십시오.

기타 의사의 주의사항

이 물질 안전 보건자료를 지참하십시오.

5: 폭발·화재시 대처방법

5.1. 소화제

해당사항 없음.

5.2. 물질 또는 혼합물로 부터 발생하는 특별한 위험

화재 시 짙은 연기가 발생합니다. 연소 제품에 노출되면 건강에 해를 줄 수 있습니다. 화재에 노출된 밀폐 용기는 물로 식혀야 합니다. 소화수가 하수 시스템 및 인근 지표수에 유입되지 않도록 하십시오.

제품이 예를 들어 화재와 같은 고온에 노출되면 위험한 분해 화합물이 생성됩니다. 예:

일부 금속 산화물

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

5.3. 화재 진압에 대한 조언

접촉 방지를 위해 자급식 호흡 장비 및 보호복을 착용하십시오. 직접 노출 시 추가 조언을 얻기 위해 응급의료센터(119)에 연락하십시오.

6: 누출 사고 시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치 사항 및 보호구

유출된 물질에 직접 접촉하지 마십시오.
특히 밀폐된 공간에서는 환기가 적절히 되도록 하십시오.
오염된 부분은 미끄러울 수 있습니다.

6.2. 환경을 보호하기 위해 필요한 조치사항

호수, 개울, 하수구 등으로 배출하지 마십시오.
허가받지 않은 사람이 누출물로부터 멀리 떨어지게 하십시오.

6.3. 정화 또는 제거 방법

유출물을 모래나 흙, 질석, 구조토와 같은 불연성, 흡수성 물질에 모아 담아 현지 규정에 따라 폐기 가능한 용기에 담으십시오.
가능한 일반적인 세척제로 세척합니다. 용제 사용을 피하십시오.

6.4. 기타 항목에 대한 참조

폐기물 처리와 관련하여 13 '폐기시 주의사항' 섹션을 참조하십시오.
보호 조치는 8 '노출방지 및 개인보호구' 섹션을 참조하십시오.

7: 취급 및 저장방법

7.1. 안전취급요령

제품과 직접 접촉하지 마십시오.
작업 구역에서는 흡연, 음주 및 음식 섭취가 금지됩니다.
개인 보호에 대한 정보는 '노출방지 및 개인보호구' 섹션을 참조하십시오.

7.2. 안전한 저장 방법(피해야 할 조건을 포함함)

개봉한 용기는 누출을 방지하기 위해 조심스럽게 다시 밀봉하고 똑바로 세워야 합니다.
금속부식성 물질이므로(제조사 또는 행정관청에서 정한) 내부식성 용기에 보관하십시오.

권장되는 보관재료:

원래의 용기에만 보관하십시오.

보관 조건:

건조하고 시원하며 통풍이 잘 됨

피해야 할 물질:

강산, 강염기, 강력한산화제 및 강력한 환원제

7.3. 구체적인 사용 용도

이 제품은 섹션 1.2에 인용된 애플리케이션에만 사용해야 합니다.

8: 노출방지 및 개인보호구

8.1. 제어 변수

potassium hydroxidecaustic potash
단시간 노출 한계(15분) (mg/m³): C 2

sodium hydroxidecaustic soda
단시간 노출 한계(15분) (mg/m³): C 2

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

화학물질 및 물리적 인자의 노출기준
고용노동부 (한국, 8/2016).

8.2. 노출 관리

주어진 작업장 노출 한도 값을 준수하는지 정기적으로 통제해야 합니다.

일반 권장 사항:

작업 구역에서는 흡연, 음주 및 음식 섭취가 금지됩니다.

노출 시나리오:

이 제품에 대해 구현된 노출 시나리오가 없습니다.

노출 허용치:

전문 사용자는 작업장 노출에 대해 법적으로 설정된 최대 농도의 적용을 받습니다. 위의 산업 위생 한계 값을 참조하십시오.

적절한 공학적 관리:

수증기 발생은 최소 수준 및 현 한도값 이하로 유지하여야 한다(위 내용 참조). 작업 공간에 정상적인 공기의 흐름이 부족한 경우, 로컬 배기 시스템 설치를 권장한다. 비상 눈세척 및 샤워를 명확하게 표시하도록 한다.

눈 세척기와 안전 샤워기가 손이 닿는 곳에 있도록 하십시오.

제품 사용시 표준 예방 조치에 따릅니다. 수증기 흡입을 피한다.

위생상 주의사항:

제품 사용 도중 및 작업 종료시 신체의 모든 노출 부위를 철저히 세척해야 합니다. 손, 팔뚝, 얼굴을 특히 주의하십시오.

환경 노출 관리:

특정한 요구 사항 없음.

개인 보호 조치

일반:

KC 마크 보호 장비만 사용하십시오.

호흡기 보호:

유형	등급	색상	표준	
호흡기 보호가 필요하지 않습니다				

신체 보호:

추천	타입/범주	표준	
전용 작업복	-	-	

손 보호:

작업 상황	물질	장갑 두께 (mm)	돌파 시간 (분)	표준	
긴 시간 노출 또는 높은 농도인 경우	니트릴 고무	0.4	> 480	EN374-2, EN16523-1, EN388	
짧은 노출 또는 낮은 농도가 발생하는 경우	니트릴 고무	1,5	> 30	EN374-2, EN16523-1, EN388	

눈/안면 보호구:

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

유형	표준	
측면 실드가 있는 안전 안경	EN166	

9: 물리화학적 특성

9.1. 물리화학적 특성에 관한 정보

물리적 상태:
액체

색:
페일 옐로우

▼ 냄새:
마일드

냄새 역치 (ppm):
자료 없음.

pH:
13.5

비중 (g/cm³):
1.29 (20 °C)

점도:
자료 없음.

임자 특성:
액체에 사용하지 마십시오.

위상 변화

녹는점/어는점 (°C):
자료 없음.

액체에 사용하지 마십시오.

초기 끓는점과 끓는점 범위 (°C):
100

증기압:
자료 없음.

증기밀도:
자료 없음.

분해 온도 (°C):
자료 없음.

화재 및 폭발 위험에 관한 데이터

인화점 (°C):
자료 없음.

인화성 (°C):
자료 없음.

자연발화 온도 (°C):
자료 없음.

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

인화 또는 폭발 범위의 상한/하한 (% v/v):

자료 없음.

용해도

물 용해도:

완전히 용해 가능

분배계수 (LogKow):

자료 없음.

지방 용해도(g/L):

자료 없음.

9.2. 그 밖의 참고사항

기타 물리적 및 화학적 매개변수:

자료 없음.

산화성:

자료 없음.

10: 안정성 및 반응성

10.1. 반응성

자료 없음.

10.2. 화학적 안정성

이 제품은 '취급 및 저장방법' 섹션에 명시된 조건에서 안정적입니다.

10.3. 유해 반응의 가능성

알려진 바 없습니다.

10.4. 피해야 할 조건

알려진 바 없습니다.

10.5. 피해야 할 물질

강산, 강염기, 강력한산화제 및 강력한 환원제

10.6. ▼분해시 생성되는 유해물질

정상적인 보관 및 사용 조건에서 위험한 분해 산물이 생성되어서는 안 됩니다.

11: 독성에 관한 정보

11.1. 독성 영향에 관한 정보

급성 독성

제품/성분	potassium hydroxidecaustic potash
생물종:	쥐, 남성
노출 경로:	경구
시험:	LD50
결과:	333 - 388 mg/kg

제품/성분	sodium hydroxidecaustic soda
결과:	45.4 mg/L

제품/성분	sodium hydroxidecaustic soda
생물종:	토끼
시험:	LD lo

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

결과: 500 mg/kg

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

자극성/부식성

제품/성분: iT.33 laundry booster pro
결과: 관찰된 부작용 (매우 자극적)

제품/성분: potassium hydroxidecaustic potash
결과: 관찰된 부작용 (부식성)

제품/성분: sodium hydroxidecaustic soda
결과: 관찰된 부작용 (자극적)

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

심한 눈 손상/자극

제품/성분: iT.33 laundry booster pro
결과: 관찰된 부작용 (눈에 심한 손상을 일으킴)

제품/성분: potassium hydroxidecaustic potash
결과: 관찰된 부작용 (부식성 높음)

제품/성분: sodium hydroxidecaustic soda
실험 방법: OECD 405
생물종: 토끼
결과: 관찰된 부작용 (부식성)

눈에 심한 손상을 일으킴.

호흡기 과민성

제품/성분: potassium hydroxidecaustic potash
결과: 관찰된 부작용 없음 (민감하지 않음)

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

피부 과민성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

생식 세포 변이원성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

발암성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

생식 독성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

특정 표적장기 독성 (1회 노출)

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

특정 표적장기 독성 (반복 노출)

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

흡인 유해성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

만성 징후와 증상

제품에는 심각한 눈 손상을 일으키는 물질이 포함되어 있습니다. 이러한 물질과 접촉하면 눈에 돌이킬 수 없는 영향을 주거나 심각한 눈 손상을 일으킬 수 있습니다.

12: 환경에 미치는 영향

12.1. 독성

제품/성분	iT.33 laundry booster pro
생물종:	Andere waterorganismen, Leuciscus idus
환경:	물
기간:	96 시간
시험:	LC50
결과:	>100 mg/L

제품/성분	sodium hydroxidecaustic soda
생물종:	박테리아, Pseudomonas putida
시험:	EC0
결과:	>100 mg/L

제품/성분	sodium hydroxidecaustic soda
생물종:	물벼룩, Ceriodaphnia dubia
기간:	48 시간
결과:	40.4 mg/L

제품/성분	sodium hydroxidecaustic soda
실험 방법:	OECD 203
생물종:	물고기, Oncorhynchus mykiss
기간:	96 시간
시험:	LC50
결과:	45.4 mg/L

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

12.2. 잔류성 및 분해성

사용 가능한 데이터를 기준으로 할 때 분류 기준이 충족되지 않습니다.

12.3. 생물 농축성

제품/성분	sodium hydroxidecaustic soda
결론:	생물축적은 예상되지 않음

12.4. 토양 이동성

자료 없음.

12.5. PBT(잔류성, 생물농축성, 독성) 및 vPvB(고잔류성, 고생물농축성) 평가 결과

이 혼합물/제품에는 PBT 및/또는 vPvB로 분류되는 기준을 충족하는 것으로 여겨지는 물질이 포함되어 있지 않습니다.

12.6. 기타 유해 영향

알려진 바 없습니다.

13: 폐기시 주의사항

폐기물 처리 방법

제품에는 위험 폐기물에 대한 규정이 적용되지 않습니다.

특정 라벨링

포장

제품의 잔류물이 포함된 포장은 제품과 유사하게 폐기해야 합니다.

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

14: 운송에 필요한 정보

	14.1 UN번호	14.2 적정 선적명	14.3 범주	14.4 PG*	14.5 Env**	그 밖의 참 고사항:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	수업: 8 라벨: 8 분류 코드: C5 	II	아니오	제한된 수 량: 1 L 터널 제한 코드: (E) 추가 정보는 아래를 참조 해 주십시 오.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	수업: 8 라벨: 8 분류 코드: C5 	II	아니오	제한된 수 량: 1 L EmS: F-A S- B 추가 정보는 아래를 참조 해 주십시 오.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	수업: 8 라벨: 8 분류 코드: C5 	II	아니오	추가 정보는 아래를 참조 해 주십시 오.

* 포장 그룹

** 환경 유해성

추가 정보

이 제품은 위험물 운송 규정의 범위 내에 있습니다.

ADR / 운송과 관련된 특수 조항, 요구 조건 또는 경고에 대한 정보는 표 A, 섹션 3.2.1을 참조하십시오. 운송 중 사고 또는 사고와 관련된 손상 완화에 대한 서면 지침은 섹션 5.4.3을 참조하십시오.

IMDG / 운송과 관련된 특수 조항, 요구 조건 또는 경고에 대한 정보는 표 A, 섹션 3.2.1을 참조하십시오.

IATA / 운송과 관련된 특수 조항, 요구 조건 또는 경고에 대한 정보는 표 , 섹션 4.2.을 참조하십시오.

14.6. 사용자가 운송 또는 운송 수단에 관련해 알 필요가 있거나 필요한 특별한 안전 대책
해당사항 없음.

14.7. MARPOL 부록 II 및 IBC 코드에 따른 벌크 운송
자료 없음.

15: 법적 규제현황

15.1. 물질 또는 혼합물에 관련된 안전, 보건 및 환경 규정/법률

적용에 대한 제한:

전문 사용자 전용.

특정 교육에 대한 요구:

특정한 요구 사항 없음.

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

추가 정보:

해당사항 없음.

중점관리물질:

구성 성분이 나와있지 않습니다

KECI:

potassium hydroxidecaustic potash 가 나열되어 있습니다.

sodium hydroxidecaustic soda 가 나열되어 있습니다.

출처:

중점관리물질 : 환경부 고시 제2022-79호

화학물질의 분류·표시 및 물질안전보건자료에 관한 기준 (고용노동부고시 제2023-9호)

15.2. 화학 물질 안전성 평가

아니오

16: 그 밖의 참고사항

섹션 3에 언급된 H-문구 전문

H290, 금속을 부식시킬 수 있음.

H302, 삼키면 유해함.

H314, 피부에 심한 화상과 눈 손상을 일으킴.

H315, 피부에 자극을 일으킴.

H318, 눈에 심한 손상을 일으킴.

H319, 눈에 심한 자극을 일으킴.

섹션 1에 언급된 식별된 사용의 전문

알려진 바 없습니다.

약어 및 두문자어

ADN = 내륙 수로에 의한 위험물 국제 운송에 관한 유럽 규정

ADR = 위험물 국제 도로 운송에 관한 유럽 협약

ATE = 급성 독성 추정

BCF = 생물농축 계수

CAS = 화학논문 초록 서비스

EINECS = 유럽 기존 상용 화학 물질 목록

GHS = 화학물질 분류 표시 국제조화시스템

IARC = 국제암연구기관

IATA = 국제항공운송 협회

IMDG = 국제해상위험물

KECI = 한국 기존 화학 물질 목록

LogPow = 옥탄올/물 분배 계수의 로그

MARPOL = 1978년 의정서에 의해 수정된 1973년 해양오염방지협약 ("Marpol"= 해양 오염)

MoE = 환경부공고

OECD = 경제협력개발기구

PBT = 잔류성, 생물농축성, 독성

RID = 위험물 국제 철도 운송에 관한 규정

RRN = REACH 등록 번호

SCL = 에는 특정 농도 한계(SCL)가 있습니다.

STEL = 단기 노출 한도

STOT-RE = 특정 대상 장기 독성-반복 노출

STOT-SE = 특정 대상 장기 독성-단일 노출

TWA = 시간 가중 평균

UN = 국제연합

화학물질의 분류, 표시 및 물질안전보건자료에 관한 기준, 제10조 따름

VOC = 휘발성 유기 화합물

vPvB = 고잔류성, 고생물농축성

추가 정보

건강 위험과 관련하여 혼합물의 분류는 화학 물질 및 물질 안전 보건 자료의 분류 라벨링 표준(MoEL No. 2023-9)에 의해 제공된 계산 방법을 따릅니다.

물질 안전 보건자료가 다음에 의해 확인됨

Quality & Compliance

그 밖의 참고사항

변경(마지막 필수 변경에 비례(SDS 버전의 첫 번째 암호, 섹션 1 참조))은 파란색 삼각형으로 표시됩니다.

이 물질 안전 보건자료의 정보는 이 특정 제품(섹션 1 참조)에만 적용되며 다른 화학물질/제품과 함께 사용하면 정확하지 않을 수 있습니다.

이 물질 안전 보건자료는 실제 제품 사용자에게 전달하시길 권장합니다. 이 물질 안전 보건자료의 정보는 제품 사양으로 사용될 수 없습니다.

국가 언어 : KR-ko

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for KUWAIT according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: KW-en

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for the REPUBLIC OF NORTH MACEDONIA according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: MK-en

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

Unique formula identifier (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revision:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Emergency: 112 (24h service)

Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508

See also section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ General:

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

▼ Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.

(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 REACH: Index No.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2119457892-27-XXXX Index No.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.
Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure call 112 for emergencies otherwise contact Hospital Malta Mater Dei, Medicines & Poisons information office: +356 2545 6508 in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

potassium hydroxide;caustic potash

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

sodium hydroxide;caustic soda

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2 %
Long term – Systemic effects - Workers	Dermal	<2 %
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

PNEC

sodium hydroxide;caustic soda

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6.4 mg/L
Freshwater sediment		23 mg/kg TG
Intermittent release		3.1 mg/L
Intermittent release (marine water)		2.3 mg/kg TG
Marine water		0.64 mg/L
Sewage treatment plant		51 mg/L
Soil		0.853 mg/kg TG

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Pale yellow

▼ *Odour / Odour threshold:*

Mild

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Lower and upper explosion limit (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:
No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: >100 mg/L

Product/substance: sodium hydroxide;caustic soda
Species: Bacteria, Pseudomonas putida
Test: EC0
Result: >100 mg/L

Product/substance: sodium hydroxide;caustic soda
Species: Daphnia, Ceriodaphnia dubia
Duration: 48 hours
Result: 40.4 mg/L

Product/substance: sodium hydroxide;caustic soda
Test method: OECD 203
Species: Fish, Oncorhynchus mykiss
Duration: 96 hours
Test: LC50
Result: 45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance: sodium hydroxide;caustic soda
Conclusion: Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 8 – Corrosive
Dispose of contents/container to an approved waste disposal plant.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code:

20 01 29* Detergents containing dangerous substances

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

SEVESO - Categories / dangerous substances:

Not applicable.

Additional information:

Not applicable.

Sources:

Protection Of Young Persons At Work Places Regulations, 1st January 2002 (Subsidiary Legislation 424.10)

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of

1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: MT-en

HELAIAN DATA KESELAMATAN

iT.33 laundry booster pro

BAHAGIAN 1: PENGENALAN BAHAN KIMIA DAN PEMBEKAL

1.1. Pengecam produk

Nama dagang:
iT.33 laundry booster pro

1.2. Kegunaan yang disarankan bagi bahan dan sekatan penggunaan

Penggunaan bahan atau campuran yang dikenal pasti:
Detergen dan agen pembersih (termasuk yang berasaskan pelarut)
Terhad kepada pengguna profesional.

Penggunaan yang tidak disarankan:
Tidak diketahui.

1.3. Butiran pembekal helaian data keselamatan

Butiran syarikat:
Hygeniq B.V.
Lenteweg 15
7532 RV Enschede
Nederland
0534282860

E-mel:
info@hygeniq.com

Tarikh SDS:
14/08/2025

Versi SDS:
2.0

Tarikh Keluaran Terdahulu:
28/07/2025 (1.0)

1.4. Nombor telefon kecemasan

Pusat Racun Kebangsaan (Pulau Pinang): Tel: 04 657 0099 (Isnin-Jumaat 08:10pg - 5:10pg), Tel: 012 430 9499 (Isnin-Jumaat 5:10ptg-10:00mlm ; Hujung minggu & cuti umum 8.10pg - 5.10ptg)
Lihat seksyen 4: Langkah pertolongan cemas

BAHAGIAN 2: PENGENALAN BAHAYA

Bahan ini dianggap berbahaya oleh Tataamalan Industri Mengenai Pengelasan Bahan Kimia dan Komunikasi Hazard (ICOP).

2.1. Klasifikasi bahan atau campuran

Met. Corr. 1; H290, Boleh mengakis logam.
Skin Corr. 1A; H314, Menyebabkan lecuran kulit dan kerosakan mata yang teruk.
Eye Dam. 1; H318, Menyebabkan kerosakan mata yang serius.

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

2.2. Unsur label

Piktogram bahaya:



Kata isyarat:
Bahaya

Pernyataan bahaya:

Boleh mengakis logam. (H290)

Menyebabkan lecuran kulit dan kerosakan mata yang teruk. (H314)

Pernyataan berjaga-jaga:

▼ *Am:*

Tidak berkenaan.

Pencegahan:

Jangan sedut wap/kabus. (P260)

Pakai perlindungan mata/sarung tangan pelindung/pakaian pelindung. (P280)

Tindakbalas:

JIKA TERKENA KULIT (atau rambut): Segera tanggalkan/buka semua pakaian yang tercemar. Basuh kulit dengan air atau pancuran air. (P303+P361+P353)

JIKA TERKENA MATA: Bilas berhati-hati dengan air selama beberapa minit. Tanggalkan kanta lekap, jika ada dan dapat dilakukan dengan mudah. Teruskan membilas. (P305+P351+P338)

Penyimpanan:

Simpan di dalam bekas dengan pelapik dalam yang tahan. (P406)

Pelupusan:

Lupuskan kandungan/bekas ke peraturan tempatan (P501)

Ramuan berbahaya:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Pelabelan tambahan:

Tidak berkenaan.

BAHAGIAN 3: KOMPOSISI DAN MAKLUMAT MENGENAI RAMUAN BAHAN KIMIA BERBAHAYA

3.1. Bahan

Tidak berkenaan. Produk ini ialah sejenis campuran.

3.2. ▼ Campuran

Produk/bahan	Pengenal pasti	% w/w	Klasifikasi	Nota
potassium hydroxidecaustic potash	CAS: 1310-58-3 EC: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxidecaustic soda	CAS: 1310-73-2 EC: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314	

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

			Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

Lihat teks penuh frasa H dalam seksyen 16. Had pendedahan pekerjaan disenaraikan dalam seksyen 8, jika ini tersedia.

Maklumat lain

-

BAHAGIAN 4: LANGKAH-LANGKAH PERTOLONGAN CEMAS

4.1. Deskripsi langkah pertolongan cemas

Am:

Jika berlaku kemalangan: Hubungi doktor atau jabatan kecemasan - bawa label atau helaian data keselamatan ini. Hubungi doktor jika ragu-ragu mengenai keadaan orang yang cedera atau jika simptom tersebut berterusan. Jangan berikan air atau minuman lain kepada orang yang tidak sedarkan diri.

Penyedutan:

Apabila berlaku kesukaran bernafas atau kerengsaan saluran pernafasan: Bawa mangsa ke kawasan berudara segar dan tunggu bersama beliau.

Terkena kulit:

Jirus kawasan terdedah dengan air untuk jangka masa yang lama - sekurang-kurangnya 30 minit. Ia mungkin perlu dihiris selama beberapa jam. Gunakan suhu air yang selesa (20-30 °C). Hubungi Pusat Maklumat Racun/doktor/hospital untuk mendapatkan nasihat lanjut tentang susulan dan rawatan.

Tanggalkan pakaian dan kasut yang tercemar serta merta. Pastikan membasuh kulit dengan teliti dengan air dan sabun. Pembersih kulit boleh digunakan. JANGAN guna pelarut atau pencair.

Jika berlaku kerengsaan kulit: Dapatkan bantuan/rawatan perubatan.

Terkena mata:

Jika terkena mata: Bilas mata dengan air yang banyak atau air garam (20-30 °C) selama sekurang-kurangnya 30 minit dan teruskan sehingga kerengsaan berhenti. Keluarkan kanta sentuh. Pastikan anda membilas di bawah kelopak mata atas dan bawah. Dapatkan bantuan perubatan dengan serta-merta dan teruskan membilas.

Tertelan:

Jika berlaku pengingesan, hubungi doktor. Sekiranya orang itu sedar, berikan beliau air. JANGAN cuba menyebabkan muntah, kecuali jika ini disyorkan oleh doktor. Tahan kepala menghadap ke bawah untuk mengelakkan muntah kembali mulut dan tekak. Cegah kejutan dengan memastikan orang yang cedera hangat dan tenang. Mulakan pernafasan segera jika pernafasan berhenti. Jika tidak sedarkan diri, pastikan orang yang cedera mengiring ke dalam kedudukan pemulihan. Hubungi ambulans.

Terbakar:

Tidak berkenaan.

4.2. Simptom dan kesan yang paling penting, kedua-dua akut dan tertunda

Kesan merosakkan tisu: Produk ini mengandungi bahan-bahan dengan sifat menghakis kulit. Menyedut wap atau aerosol boleh menghasilkan kesan buruk kepada paru-paru, kegatalan dan terbakar dalam organ-organ pernafasan serta batuk. Sentuhan kulit dan sentuhan dengan mata menyebabkan kesan tidak dapat dipulihkan.

4.3. Indikasi bagi sebarang rawatan segera dan rawatan khas yang diperlukan

JIKA terdedah atau dikhuatiri terdedah kepada bahan:

Segera dapatkan bantuan/rawatan perubatan.

Nota kepada doktor

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

Bawa helaian data keselamatan ini atau label

BAHAGIAN 5: LANGKAH-LANGKAH PEMADAMAN KEBAKARAN

5.1. Media pemadam kebakaran

Tidak berkenaan.

5.2. Bahaya khusus yang timbul daripada bahan atau campuran

Kebakaran akan mengakibatkan asap tebal. Pendedahan kepada produk pembakaran boleh membahayakan kesihatan anda. Bekas tertutup, yang terdedah kepada kebakaran, hendaklah disejukkan dengan menggunakan air. Jangan biarkan air pemadaman api masuk ke sistem kumbahan dan permukaan perairan berhampiran. Jika produk terdedah kepada suhu tinggi, cth. jika berlaku kebakaran, sebatian penguraian berbahaya dihasilkan. Iaitu: Beberapa oksida logam

5.3. Nasihat untuk ahli bomba

Pakai alat pernafasan serba lengkap dan pakaian perlindungan untuk mengelakkan sentuhan. Apabila terdedah secara langsung, hubungi Pusat Racun Kebangsaan (Pulau Pinang) (lihat bahagian 1.4), untuk mendapatkan nasihat lanjut.

Kod Hazchem: 2R

BAHAGIAN 6: LANGKAH-LANGKAH PELEPASAN TIDAK SENGAJA

6.1. Langkah berjaga-jaga peribadi, peralatan pelindung dan prosedur kecemasan

Elakkan sentuhan langsung dengan bahan tertumpah.
Pastikan pengudaraan yang mencukupi, terutamanya di kawasan tertutup.
Kawasan tercemar mungkin licin.

6.2. Langkah berjaga-jaga alam sekitar

Elakkan pelepasan ke tasik, sungai, pemetung, dll.
Pastikan orang yang tidak dibenarkan berada jauh daripada tumpahan

6.3. Kaedah dan bahan bagi pembendungan dan pembersihan

Mengandungi dan mengumpul tumpahan dengan bahan penyerap yang tidak mudah terbakar cth. pasir, tanah, vermikulit atau tanah diatom dan diletakkan dalam bekas untuk dilupuskan mengikut peraturan tempatan. Sekiranya boleh, pembersihan hendaklah dilakukan dengan agen pembersihan biasa. Elakkan penggunaan pelarut.

6.4. Rujukan kepada seksyen lain

Lihat seksyen 13 untuk maklumat tambahan pembuangan.
Lihat seksyen 8 untuk maklumat kawalan pendedahan dan perlindungan diri.

BAHAGIAN 7: PENGENDALIAN DAN PENYIMPANAN

7.1. Langkah berjaga-jaga bagi pengendalian selamat

Elakkan hubungan langsung dengan produk.
Merokok, minum dan makan adalah tidak dibenarkan di kawasan kerja.
Lihat seksyen "Kawalan pendedahan dan perlindungan diri" untuk maklumat mengenai perlindungan peribadi.

7.2. Keadaan bagi penyimpanan yang selamat, termasuk apa-apa ketakserasian

Bekas yang telah dibuka mesti ditutup semula dengan teliti dan ditegakkan untuk mencegah kebocoran.
Simpan di dalam bekas dengan pelapik dalam yang tahan.

Bahan penyimpanan yang disyorkan:

Pastikan bahan disimpan hanya di dalam bekas asal.

Keadaan penyimpanan:

Kering, sejuk dan pengudaraan yang baik

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

Bahan tidak serasi:

Asid yang kuat, asas yang kuat, agen pengoksidaan kuat, dan agen pengurangan yang kuat.

7.3. Kegunaan akhir yang spesifik

Produk ini hanya boleh digunakan untuk aplikasi yang disebutkan dalam seksyen 1.2

BAHAGIAN 8: KAWALAN PENDEDAHAN DAN PERLINDUNGAN DIRI

8.1. Parameter kawalan

potassium hydroxidecaustic potash

Ceiling value (mg/m³): 2

sodium hydroxidecaustic soda

Ceiling value (mg/m³): 2

PERATURAN-PERATURAN KESELAMATAN DAN KESIHATAN PEKERJAAN (PENGUNAAN DAN STANDARD PENDEDAHAN BAHAN KIMIA BERBAHAYA KEPADA KESIHATAN) 2000

8.2. Kawalan-kawalan pendedahan

Pematuhan nilai had pendedahan pekerjaan yang diberikan harus dikawal secara teratur.

Cadangan am:

Merokok, minum dan makan adalah tidak dibenarkan di kawasan kerja.

Senario pendedahan:

Tiada senario pendedahan yang dilaksanakan untuk produk ini.

Had pendedahan:

Pengguna profesional tertakluk kepada kepekatan maksimum yang sah untuk pendedahan pekerjaan. Lihat nilai had kebersihan pekerjaan di atas.

Kawalan kejuruteraan yang sesuai:

Pembentukan wap mesti dikekalkan pada paras minimum dan di bawah nilai had semasa (lihat di atas). Jika aliran udara biasa dalam bilik kerja tidak mencukupi, pemasangan suatu sistem ekzos setempat adalah disyorkan.

Pastikan bahawa pencuci mata dan pancuran kecemasan ditandakan dengan jelas.

Pastikan stesen pembersihan mata dan pancuran mandian keselamatan terletak di kawasan yang mudah dicapai.

Ambil langkah berjaga-jaga yang biasa semasa penggunaan produk. Elakkan penyedutan wap.

Langkah-langkah kebersihan:

Di antara masa penggunaan produk dan sehingga tamat hari bekerja, semua bahagian yang terkena badan mesti dibasuh dengan bersih. Berikan perhatian khusus kepada tangan, bawah lengan dan muka.

Kawalan pendedahan alam sekitar:

Simpan bahan penampunan berhampiran tempat kerja. Jika boleh, kumpulkan tumpahan semasa bekerja.

Langkah perlindungan individu, seperti PPE

Am:

Gunakan peralatan perlindungan bertanda CE.

Perlindungan pernafasan:

Jenis	Kelas	Warna	Standard	
Perlindungan pernafasan tidak diperlukan				

Perlindungan kulit:

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

Disyorkan	Jenis / Kategori	Standard	
Pakaian kerja khas	-	-	

Perlindungan tangan:

Situasi kerja	Bahan	Ketebalan sarung tangan (mm)	Masa penembusan (min.)	Standard	
Jika pendedahan berpanjangan atau kepekatan tinggi	Getah nitril	0.4	> 480	EN374-2, EN16523-1, EN388	
Jika pendedahan jangka pendek atau kepekatan rendah	Getah nitril	1,5	> 30	EN374-2, EN16523-1, EN388	

Perlindungan mata/muka:

Jenis	Standard	
Kaca mata keselamatan dengan pelindung sisi	EN166	

BAHAGIAN 9: SIFAT FIZIKAL DAN KIMIA

9.1. Maklumat tentang sifat fizikal dan kimia asas

Rupa:

Cecair

Warna:

Kuning pucat

▼ *Bau:*

Lembut

Ambang bau (ppm):

Tiada data yang tersedia.

pH:

13.5

Ketumpatan (g/cm³):

1.29 (20 °C)

Kelikatan:

Tiada data yang tersedia.

Ciri-ciri zarah:

Tidak digunakan pada cecair

Fasa perubahan

Takat lebur/takat beku (°C):

Tiada data yang tersedia.

Titik lebur/julat (°C):

Tidak digunakan pada cecair

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

Titik didih/julat didih (°C):

100

Tekanan Wap:

Tiada data yang tersedia.

Ketumpatan Wap:

Tiada data yang tersedia.

Suhu pereputan (°C):

Tiada data yang tersedia.

Kadar Penyejatan:

Data mengenai bahaya kebakaran dan letupan

Takat kilat (°C):

Tiada data yang tersedia.

Titik pencucuhan (°C):

Tiada data yang tersedia.

Suhu penyalaan automatik (°C):

Tiada data yang tersedia.

Had mudah meletup (mudah menyala) bawah dan atas (% v/v):

Tiada data yang tersedia.

Keterlarutan

Kelarutan dalam air:

Larut sepenuhnya

Pekali Sekatan (LogKow):

Tiada data yang tersedia.

Kelarutan dalam lemak (g/L):

Tiada data yang tersedia.

9.2. Maklumat lain

Parameter fizikal dan kimia yang lain:

Tiada data yang tersedia.

Sifat pengoksidaan:

Tiada data yang tersedia.

BAHAGIAN 10: KESTABILAN DAN KEREAKTIFAN

10.1. Kereaktifan

Tiada data yang tersedia.

10.2. Kestabilan kimia

Produk ini stabil di bawah keadaan, yang disebut dalam seksyen 7 "Pengendalian dan penyimpanan".

10.3. Kemungkinan tindak balas berbahaya

Tidak diketahui.

10.4. Keadaan yang perlu dielak

Tidak diketahui.

10.5. Bahan yang tidak serasi

Asid yang kuat, asas yang kuat, agen pengoksidaan kuat, dan agen pengurangan yang kuat.

10.6. Produk penguraian berbahaya

Penguraian terma boleh mengeluarkan wap yang mengakis.

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

BAHAGIAN 11: MAKLUMAT TOKSIKOLOGI

11.1. Maklumat tentang kesan toksikologi

Ketoksikan akut

Produk/bahan	potassium hydroxidecaustic potash
Spesis:	Tikus, lelaki
Laluan pendedahan:	Oral
Ujian:	LD50
Keputusan:	333 - 388 mg/kg

Produk/bahan	sodium hydroxidecaustic soda
Keputusan:	45.4 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Spesis:	Arnab
Ujian:	LD lo
Keputusan:	500 mg/kg

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Kakisan/kerengsaan Kulit

Produk/bahan	iT.33 laundry booster pro
Keputusan:	Kesan buruk yang diperhatikan (Sangat merengsakan)

Produk/bahan	potassium hydroxidecaustic potash
Keputusan:	Kesan buruk yang diperhatikan (Mengakis)

Produk/bahan	sodium hydroxidecaustic soda
Keputusan:	Kesan buruk yang diperhatikan (Merengsakan)

Menyebabkan lecuran kulit dan kerosakan mata yang teruk.

Kerosakan/kerengsaan mata yang serius

Produk/bahan	iT.33 laundry booster pro
Keputusan:	Kesan buruk yang diperhatikan (Menyebabkan kerosakan mata yang serius)

Produk/bahan	potassium hydroxidecaustic potash
Keputusan:	Kesan buruk yang diperhatikan (Sangat mengakis)

Produk/bahan	sodium hydroxidecaustic soda
Kaedah ujian:	OECD 405
Spesis:	Arnab
Keputusan:	Kesan buruk yang diperhatikan (Mengakis)

Menyebabkan kerosakan mata yang serius.

Pemekaan pernafasan

Produk/bahan	potassium hydroxidecaustic potash
Keputusan:	Tiada kesan buruk yang diperhatikan (tidak memekatkan)

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Pemekaan kulit

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Kemutagenan sel germa

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

Kekarsinogenan

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Ketoksikan pembiakan

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Ketoksikan organ sasaran khusus (pendedahan tunggal)

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Ketoksikan organ sasaran khusus (pendedahan berulang)

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Bahaya aspirasi

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

Kesan Jangka Panjang

Kesan merosakkan tisu: Produk ini mengandungi bahan-bahan dengan sifat menghakis kulit. Menyedut wap atau aerosol boleh menghasilkan kesan buruk kepada paru-paru, kegatalan dan terbakar dalam organ-organ pernafasan serta batuk. Sentuhan kulit dan sentuhan dengan mata menyebabkan kesan tidak dapat dipulihkan.

BAHAGIAN 12: MAKLUMAT EKOLOGI

12.1. Ketoksikan

Produk/bahan	iT.33 laundry booster pro
Spesis:	Andere waterorganismen, Leuciscus idus
Persekitaran:	Air
Tempoh:	96 jam
Ujian:	LC50
Keputusan:	>100 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Spesis:	Bakteria, Pseudomonas putida
Ujian:	EC0
Keputusan:	>100 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Spesis:	Dafnia, Ceriodaphnia dubia
Tempoh:	48 jam
Keputusan:	40.4 mg/L

Produk/bahan	sodium hydroxidecaustic soda
Kaedah ujian:	OECD 203
Spesis:	Ikan, Oncorhynchus mykiss
Tempoh:	96 jam
Ujian:	LC50
Keputusan:	45.4 mg/L

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

12.2. Ketegaran dan keterdegradan

Berdasarkan data yang ada, kriteria klasifikasi tidak dipenuhi.

12.3. Keupayaan biopengumpulan

Produk/bahan	sodium hydroxidecaustic soda
Kesimpulan:	Biopengumpulan tidak dijangka

12.4. Mobiliti dalam tanah

Tiada data yang tersedia.

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

12.5. Keputusan taksiran PBT dan vPvB

Campuran/produk ini tidak mengandungi sebarang bahan yang dianggap memenuhi kriteria yang mengklasifikasikannya sebagai PBT dan/atau vPvB.

12.6. Kesan memudaratkan yang lain

Tidak diketahui.

BAHAGIAN 13: MAKLUMAT PELUPUSAN

Kaedah rawatan bahan buangan

Lupuskan kandungan/bekas ke ke loji pelupusan sisa yang diluluskan.

Pelabelan spesifik

Bahan Pembungkusan Tercemar

Pembungkusan yang mengandungi residu produk mesti dilupuskan sama dengan produk tersebut.

BAHAGIAN 14: MAKLUMAT PENGANGKUTAN

	14.1 No. U.N.	14.2 Nama penghantaran betul	14.3 Kelas	14.4 PG*	14.5 Env**	Maklumat lain:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas: 8 Kelas bahaya pengangkutan: 8 Kod klasifikasi: C5 	II	Tidak	Kuantiti terhad: 1 L Kod sekatan terowong: (E) Sila lihat di bawah untuk maklumat tambahan.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas: 8 Kelas bahaya pengangkutan: 8 Kod klasifikasi: C5 	II	Tidak	Kuantiti terhad: 1 L EmS: F-A S- B Sila lihat di bawah untuk maklumat tambahan.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Kelas: 8 Kelas bahaya pengangkutan: 8 Kod klasifikasi: C5 	II	Tidak	Sila lihat di bawah untuk maklumat tambahan.

* Kumpulan Pembungkusan

** Bahaya Alam Sekitar

Maklumat tambahan

Produk ini berada dalam lingkungan peraturan pengangkutan barang berbahaya.

ADR / Rujuk Jadual A, Bahagian 3.2.1 untuk sebarang maklumat tentang peruntukan, keperluan atau amaran khas berkaitan pengangkutan. Lihat bahagian 5.4.3 untuk arahan secara bertulis tentang pengurangan kerosakan yang

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

berkaitan dengan insiden atau kemalangan semasa pengangkutan.

IMGD / Lihat Bahagian 3.2.1 untuk sebarang maklumat tentang peruntukan, keperluan atau amaran khas berkaitan pengangkutan.

IATA / Lihat Jadual 4.2 untuk sebarang maklumat tentang peruntukan, keperluan atau amaran khas berkaitan pengangkutan.

Kod Hazchem: 2R

14.6. Langkah berjaga-jaga khas untuk pengguna

Tidak berkenaan.

14.7. Pengangkutan secara pukal menurut Lampiran II MARPOL dan Kod IBC

Tiada data yang tersedia.

BAHAGIAN 15: MAKLUMAT PENGAWALSELIAAN

15.1. Peraturan/undang-undang keselamatan, kesihatan dan alam sekitar yang khusus bagi bahan atau campuran

Sekatan untuk penggunaan:

Terhad kepada pengguna profesional.

Individu yang berumur di bawah umur 18 tahun tidak boleh didedahkan kepada produk ini.

Keperluan untuk pendidikan khusus:

Tiada keperluan khusus.

Kawalan terhadap bahaya kemalangan besar dalam perindustrian:

Tidak berkenaan.

Maklumat tambahan:

Tidak berkenaan.

Sistem Pengurusan Maklumat Kimia (CIMS):

potassium hydroxidecaustic potash disenaraikan

sodium hydroxidecaustic soda disenaraikan

Sumber:

AKTA KESELAMATAN DAN KESIHATAN PEKERJAAN 1994

Peraturan-peraturan Keselamatan dan Kesihatan Pekerjaan (Pengelasan, Pelabelan dan Helaian Data Keselamatan Bahan Kimia Berbahaya) [2013 P.U. (A) 310.]

Tataamalan Industri pada Pengelasan Bahan Kimia dan Komunikasi Hazard (ICOP)

15.2. Penilaian keselamatan kimia

Tidak

BAHAGIAN 16: MAKLUMAT LAIN

Teks penuh frasa H seperti yang dinyatakan dalam seksyen 3

H290, Boleh mengakis logam.

H302, Memudaratkan jika tertelan.

H314, Menyebabkan lecuran kulit dan kerosakan mata yang teruk.

H315, Menyebabkan kerengsaan kulit.

H318, Menyebabkan kerosakan mata yang serius.

H319, Menyebabkan kerengsaan mata yang serius.

Teks penuh penggunaan yang dikenalpasti seperti dinyatakan dalam seksyen 1

Tidak diketahui.

Singkatan dan akronim

Berdasarkan Peraturan Keselamatan dan Kesihatan Pekerjaan (Klasifikasi, Pelabelan dan Lembaran Data Keselamatan Bahan Kimia Berbahaya) 2013

ADN = Peruntukan Eropah mengenai Pengangkutan Barang Antarabangsa Berbahaya melalui Jalan Air Pedalaman
ADR = Perjanjian Eropah mengenai Pengangkutan Antarabangsa Barangan Berbahaya melalui Jalan Raya
ATE = Anggaran Ketoksikan Akut
BCF = Faktor Biokonsentrasi
CAS = Perkhidmatan Abstrak Kimia
EINECS = - Inventori Eropah Bagi Bahan Kimia Komersial Sedia Ada
GHS = Sistem Terharmoni Global Bagi Pengelasan dan Pelabelan Bahan Kimia
IARC = Agensi Antarabangsa Penyelidikan Mengenai Kanser
IATA = Persatuan Pengangkutan Udara Antarabangsa
IMDG = Barangan Berbahaya Maritim Antarabangsa
LogPow = logaritma pekali partisi oktanol/air
MARPOL = Konvensyen Antarabangsa untuk Pencegahan Pencemaran dari Kapal, 1973 seperti yang diubahsuai oleh Protokol 1978. ("Marpol" = pencemaran marin)
OECD = Pertubuhan Kerjasama Ekonomi dan Pembangunan
RID = Peraturan-peraturan bagi Pengangkutan Antarabangsa Barangan Berbahaya oleh Kereta Api
SCL = Mempunyai had kepekatan tertentu.
STEL = Had pendedahan jangka pendek
STOT-RE = Ketoksikan Organ Sasaran Khusus - Pendedahan Berulang
STOT-SE = Ketoksikan Organ Sasaran Khusus - Pendedahan Tunggal
TWA = Purata wajaran masa
UN = Bangsa-Bangsa Bersatu
VOC = Kompaun Organik Meruap

Maklumat tambahan

Pengelasan campuran dalam hal bahaya kesihatan adalah mengikut kaedah pengiraan yang diberikan oleh Tataamalan Industri Mengenai Pengelasan Bahan Kimia dan Komunikasi Hazard (ICOP).

Lembaran data keselamatan disahkan oleh

Quality & Compliance

Maklumat lain

Perubahan (berkadar dengan perubahan penting yang terakhir (sifer pertama dalam versi SDS, lihat seksyen 1)) ditandakan dengan segitiga.

Maklumat dalam helaian data keselamatan ini hanya terpakai kepada produk tertentu ini (disebutkan dalam seksyen 1) dan tidak semestinya betul jika digunakan dengan bahan kimia/produk lain.

Adalah disyorkan untuk menyerahkan helaian data keselamatan ini kepada pengguna produk yang sebenarnya.

Maklumat dalam helaian data keselamatan ini tidak boleh digunakan sebagai spesifikasi produk.

Negara-bahasa: MY-ms

VEILIGHEIDSINFORMATIEBLAD

iT.33 laundry booster pro

RUBRIEK 1: IDENTIFICATIE VAN DE STOF OF HET MENGSEL EN VAN DE VENNOOTSCHAP/ONDERNEMING

1.1. Productidentificatie

Handelsnaam:

iT.33 laundry booster pro

Unieke formule-identificatie (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik

Relevant geïdentificeerd gebruik van de stof of het mengsel:

Was- en reinigingsmiddelen (inclusief op oplosmiddelbasis)

Uitsluitend voor gebruik door professionele gebruiker.

Ontraden gebruik :

Niet bekend.

1.3. Details betreffende de verstrekker van het veiligheidsinformatieblad

Firmanaam en adres:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mailadres:

info@hygeniq.com

Herziening:

14-08-2025

SDS-versie:

2.0

Datum vorige uitgave:

28-07-2025 (1.0)

1.4. Telefoonnummer voor noodgevallen

Bij ongeval met dit product neemt contact op met uw arts of de spoeddiensten van het plaatselijke ziekenhuis.

Artsen en medisch personeel kunnen met NVIC contact opnemen: Tel: +31 (0)88 755 8000 (bereikbaar 24/7). Het telefoonnummer is uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen.

Zie rubriek 4 over eerstehulpmaatregelen.

RUBRIEK 2: IDENTIFICATIE VAN DE GEVAREN

Geclassificeerd overeenkomstig Voorschrift (EC) Nr. 1272/2008 (CLP).

2.1. Indeling van de stof of het mengsel

Met. Corr. 1; H290, Kan bijtend zijn voor metalen.

Skin Corr. 1A; H314, Veroorzaakt ernstige brandwonden en oogletsel.

Eye Dam. 1; H318, Veroorzaakt ernstig oogletsel.

2.2. Etiketteringselementen

Gevarenpictogram(men):



Signaalwoord:

Gevaar

Gevarenaanduidingen:

Kan bijtend zijn voor metalen. (H290)

Veroorzaakt ernstige brandwonden en oogletsel. (H314)

Veiligheidsaanbevelingen:

▼ Algemeen:

Niet van toepassing.

Preventie:

damp/nevel niet inademen. (P260)

oogbescherming/Beschermende handschoenen/Beschermende kleding dragen. (P280)

▼ Reactie:

BIJ CONTACT MET DE HUID (of het haar): verontreinigde kleding onmiddellijk uittrekken. Huid met water afspoelen of afdouchen. (P303+P361+P353)

BIJ CONTACT MET DE OGEN: voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen. (P305+P351+P338)

Onmiddellijk een ANTIGIFCENTRUM/arts raadplegen. (P310)

Opslag:

In houder met corrosiebestendige binnenbekleding bewaren. (P406)

Verwijdering:

Inhoud/verpakking afvoeren naar overeenkomstig de plaatselijke voorschriften (P501)

Stoffen waarvoor meldingsplicht geldt:

kaliumhydroxide

natriumhydroxide

Andere opmerkingen:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Andere gevaren

Overig:

Dit mengsel/product bevat geen stoffen die aan de criteria voldoen om ze als PBT en/of zPzB te classificeren.

Dit product bevat geen stoffen die worden beschouwd als hormoonverstorende stoffen volgens de criteria van Gedelegeerde Verordening (EU) 2017/2100 van de Commissie of Verordening (EU) 2023/707 van de Commissie.

RUBRIEK 3: SAMENSTELLING EN INFORMATIE OVER DE BESTANDDELEN

3.1. Stoffen

Niet van toepassing. Dit product is een mengsel.

3.2. ▼ Mengsels

Product / ingrediënt	Identificatiemogelijkheden	% w/w	Classificatie	Opm.
kaliumhydroxide	CAS Nr.: 1310-58-3 EG Nr: 215-181-3 REACH: Catalogusnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natriumhydroxide	CAS Nr.: 1310-73-2 EG Nr: 215-185-5 REACH: 01-2119457892-27-XXXX Catalogusnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

De volledige tekst van de gevarenaanduidingen staat in rubriek 16. Arbeidshygiënische grenswaarden zijn genoemd in rubriek 8, voor zover ze van toepassing zijn.

Andere informatie

-

RUBRIEK 4: EERSTEHULPMAATREGELEN

4.1. Beschrijving van de eerstehulpmaatregelen

Algemeen:

Bij ongelukken: Contacteer een arts of het : Tel: +31 (0)88 755 8000 (bereikbaar 24/7). Neem het etiket van het product of dit veiligheidsblad mee.

Het telefoonnummer is uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen. Bij aanhoudende symptomen of twijfel over de toestand van het slachtoffer moet er een arts ingeschakeld worden. Geef een bewusteloze persoon nooit water of iets dergelijks.

Bij inademen:

Als men moeilijkheden vaststelt tijdens de ademhaling of irritatie van de luchtwegen: Breng de persoon naar buiten en houd hem in de gaten.

Bij huidcontact:

Spoel het blootgestelde gebied gedurende lange tijd, minstens 30 minuten, met water. Het kan nodig zijn om gedurende enkele uren te spoelen. Gebruik een comfortabele watertemperatuur (20-30 °C). Neem contact op met Het Nationaal Vergiftigingen Informatie Centrum (NVIC)/arts/ziekenhuis voor verder advies over opvolging en behandeling.

Verwijder verontreinigde kleding en schoenen. Huid, die in contact is geweest met het materiaal grondig wassen met water en zeep, eventueel huidreinigingsmiddel gebruiken. Gebruik GEEN oplosmiddelen of verdunners.

Bij huidirritatie: een arts raadplegen.

Bij oogcontact:

Bij contact met de ogen: Spoel de ogen direct uit met een ruime hoeveelheid water (20-30 °C) tot de irritatie ophoudt en minstens 30 minuten. Verwijder eventuele contactlenzen. Spoel ook onder het bovenste en onderste ooglid. Bel meteen een arts. Raadpleeg onmiddellijk een arts en blijf spoelen tijdens het transport naar de arts.

Bij inslikken:

Bij inslikken: neem direct contact op met een arts. Geef het slachtoffer water te drinken als de persoon bij bewustzijn is. Probeer NIET het slachtoffer te laten braken, behalve als de arts dat adviseert. Laat het hoofd zakken

zodat er geen braaksel terugloopt in mond of hals. Voorkom shock door het slachtoffer warm en rustig te houden. Geef kunstmatige ademhaling als de ademhaling stopt. Bij bewusteloosheid: breng het slachtoffer naar een aparte afgesloten ruimte. Bel een ambulance.

Bij verbranding:

Niet van toepassing.

4.2. Belangrijkste acute en uitgestelde symptomen en effecten

Weefsel vernietigende bijwerking: Het product bevat stoffen die bijtend zijn. Als damp of aerosolen worden ingeademd, kan dit schade brengen aan de longen en irritatie en een branderig gevoel veroorzaken in de luchtwegen alsmede hoesten. Bijtende stoffen kunnen irreversibele beschadigingen veroorzaken aan de ogen. Bijt in de huid.

4.3. Vermelding van eventueel noodzakelijke onmiddellijke medische verzorging en speciale behandeling

NA (mogelijke) blootstelling:

Onmiddellijk een arts raadplegen.

Informatie voor de arts

Neem dit veiligheidsblad met of het etiket van het materiaal gegevens mee.

RUBRIEK 5: BRANDBESTRIJDINGSMAATREGELEN

5.1. Blusmiddelen

Niet van toepassing.

5.2. Speciale gevaren die door de stof of het mengsel worden veroorzaakt

Brand zal dichte rook ontwikkelen. Blootstelling aan afbraakproducten kan een gevaar voor de gezondheid opleveren. Gesloten houders die blootgesteld worden aan vuur, afkoelen met water. Laat het bluswater niet in riolering of waterleiding weglopen.

Als het product wordt blootgesteld aan hoge temperaturen, bv. in situaties van brand, kunnen er gevaarlijke afbraakproducten ontstaan. Deze zijn:

Enkele metaaloxiden

5.3. Advies voor brandweerlieden

Normaal beschermkleding en volledige ademhalingsbescherming. Bij direct contact met de chemicaliën Artsen en medisch personeel met NVIC contact opnemen: Tel: +31 (0)88 755 8000 (bereikbaar 24/7)

RUBRIEK 6: MAATREGELEN BIJ HET ACCIDENTEEL VRIJKOMEN VAN DE STOF OF HET MENGSEL

6.1. Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures

Vermijd direct contact met gemorste stof.

Verontreinigde gebieden kunnen glad zijn.

6.2. Milieuvorzorgsmaatregelen

Voorkom weglopen naar meren, rivieren, riolering, e.d.

Houd onbevoegden uit de buurt van het gemorste product.

6.3. Insluitings- en reinigingsmethoden en -materiaal

Verzamel gemorst materiaal met onbrandbaar, absorberend materiaal, bijvoorbeeld zand, aarde, vermiculiet of diatomeeënaarde en doe het in een container voor verwijdering volgens de lokale voorschriften.

Schoonmaken wordt voor zover mogelijk met schoonmaakmiddelen gedaan. Vermijd oplosmiddelen.

6.4. Verwijzing naar andere rubrieken

Zie het rubriek "Instructies voor verwijdering" over hoe om te gaan met afval.

Zie het rubriek over 8 "Maatregelen ter beheersing van blootstelling/persoonlijke bescherming" voor beschermingsregelingen.

RUBRIEK 7: HANTERING EN OPSLAG

7.1. Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel

Vermijd direct contact met het product.

Roken, eten en drinken is niet toegestaan in arbeidslokalen.

Zie de rubriek "Maatregelen ter beheersing van blootstelling/persoonlijke bescherming" voor informatie over persoonlijke bescherming.

7.2. Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten

Containers die zijn geopend dienen zorgvuldig te worden afgesloten en rechtop te worden opgeslagen om lekkage te voorkomen.

In houder met corrosiebestendige binnenbekleding bewaren.

Compatibele verpakkingen:

Uitsluitend in de oorspronkelijke verpakking bewaren.

Opslag condities:

Droog, koel en goed geventileerd

Chemisch op elkaar inwerkende materialen:

Sterke zuren, sterke basen, sterke oxidatiemiddelen en sterke reductiemiddelen.

7.3. Specifiek eindgebruik

Dit product mag alleen worden gebruikt voor de doeleinden zoals beschreven in rubriek 1.2.

RUBRIEK 8: MAATREGELEN TER BEHEERSING VAN BLOOTSTELLING/PERSOONLIJKE BESCHERMING

8.1. Controleparameters

Het product bevat geen stoffen die voorkomen op de Nederlandse lijst met stoffen met een blootstellingsgrens op de werkvloer.

DNEL

kaliumhydroxide

Duur:	Blootstellingsroute:	DNEL:
Lange termijn - Lokale effecten - Algehele populatie	Inademing	1 mg/m ³
Lange termijn - Lokale effecten - Arbeiders	Inademing	1 mg/m ³

natriumhydroxide

Duur:	Blootstellingsroute:	DNEL:
Lange termijn - Lokale effecten - Algehele populatie	Inademing	1 mg/m ³
Lange termijn - Lokale effecten - Arbeiders	Inademing	1 mg/m ³
Lange termijn - Systemische effecten - Algehele populatie	Via de huid	2 %
Lange termijn - Systemische effecten - Arbeiders	Via de huid	<2 %

PNEC

natriumhydroxide

Blootstellingsroute:	Blootstellingsduur:	PNEC:
Aarde		0.853 mg/kg TG
Afvalwaterzuiveringsinstallatie		51 mg/L
Intermitterende vrijlating		3.1 mg/L

Intermitterende vrijlating (zeewater)		2.3 mg/kg TG
Zeewater		0.64 mg/L
Zoet water		6.4 mg/L
Zoetwatersediment		23 mg/kg TG

8.2. Maatregelen ter beheersing van blootstelling

Pas algemene controle toe om onnodige blootstelling te voorkomen.

Algemene gedragslijnen:

Roken, eten en drinken is niet toegestaan in arbeidslokalen.

Blootstellingsscenario's:

Er zijn geen blootstellingsscenario's geïmplementeerd voor dit product.

Blootstellingslimieten:

Er zijn exponeringsgrenzen voor de stoffen uit dit product gevonden.

Technische maatregelen:

Zorg ervoor dat oogwasstations en veiligheidsdouches binnen handbereik zijn.

Wees voorzichtig bij het gebruik van het product. Vermijd de inademing van dampen.

Hygiënische maatregelen:

Tijdens elke pauze in het gebruik van het product en na werktijd moeten geëxposeerde lichaamsdelen afgewassen worden. Let vooral op handen, onderarmen en gezicht.

Beheersing van milieublootstelling:

Zorg ervoor dat er bij het werken met het product stuw materiaal in de directe nabijheid aanwezig is. Gebruik zo mogelijk opvangbakken bij het werk.

Individuele beschermingsmaatregelen, zoals persoonlijke beschermingsmiddelen

Algemeen:

Gebruik alleen beschermingsapparatuur met het CE-keurmerk.

Luchtwegen:

Type	Klasse	Kleur	Standaard	
Ademhalingsbescherming is niet vereist indien er voldoende ventilatie is				

Huid en lichaam:

Aanbevolen	Type/Categorie	Normen	
Aanbevolen wordt speciale werkkleding te dragen	-	-	

Handen:

Werksituatie	Materiaal	Minimale laagdikte (mm)	Doorbraaktijd (min.)	Normen	
In het geval van een lange blootstelling of hoge concentraties	Nitril handschoenen	0.4	> 480	EN374-2, EN16523-1, EN388	
In het geval van een korte blootstelling of lage concentraties	Nitril handschoenen	1,5	> 30	EN374-2, EN16523-1, EN388	

Ogen:

Type	Normen	
Draag een veiligheidsbril met zijstukken	EN166	

RUBRIEK 9: FYSISCH EN CHEMISCH EIGENSCHAPPEN

9.1. Informatie over fysische en chemische basiseigenschappen

Fysische toestand:

Vloeibaar

Kleur:

Lichtgeel

▼ *Geur / Geurdrempelwaarde (ppm):*

Zacht

pH:

13.5

Soortelijk gewicht (g/cm³):

1,29 (20 °C)

Kinematische viscositeit:

Geen gegevens beschikbaar.

Deeltjeskenmerken:

Niet van toepassing op vloeistoffen.

Toestandsverandering en damp

Smeltpunt/vriespunt (°C):

Geen gegevens beschikbaar.

Verwekingspunt/verwekingstraject (°C):

Niet van toepassing op vloeistoffen.

Kookpunt (°C):

100

Dampdruk:

Geen gegevens beschikbaar.

Relatieve dampdichtheid:

Geen gegevens beschikbaar.

Ontledingstemperatuur (°C):

Geen gegevens beschikbaar.

Data voor brand- en explosiegevaar

Vlampunt (°C):

Geen gegevens beschikbaar.

Ontvlambaarheid (°C):

Geen gegevens beschikbaar.

Zelfontbrandingstemperatuur (°C):

Geen gegevens beschikbaar.

Ontploffingsgrenzen (% v/v):

Geen gegevens beschikbaar.

Oplosbaarheid

Oplosbaarheid in water:

Volledig oplosbaar

n-octanol/water coëfficiënt (LogKow):

Geen gegevens beschikbaar.

Oplosbaarheid in vet (g/L):

Geen gegevens beschikbaar.

9.2. Overige informatie

Andere fysische en chemische parameters:

Geen gegevens beschikbaar.

Oxiderende eigenschappen:

Geen gegevens beschikbaar.

RUBRIEK 10: STABILITEIT EN REACTIVITEIT

10.1. Reactiviteit

Geen gegevens beschikbaar.

10.2. Chemische stabiliteit

Het product is stabiel onder de voorwaarden die genoemd zijn in de rubriek 7 "Hantering en opslag".

10.3. Mogelijke gevaarlijke reacties

Niet bekend.

10.4. Te vermijden omstandigheden

Niet bekend.

10.5. Chemisch op elkaar inwerkende materialen

Sterke zuren, sterke basen, sterke oxidatiemiddelen en sterke reductiemiddelen.

10.6. Gevaarlijke ontledingsproducten

Thermische ontleding kan corrosieve dampen produceren.

RUBRIEK 11: TOXICOLOGISCHE INFORMATIE

11.1. Informatie over gevarenklassen als omschreven in Verordening (EG) nr. 1272/2008

Acute toxiciteit

Product / ingrediënt	kaliumhydroxide
Soorten:	Rat, mannetje
Blootstellingsroute:	Oraal
Test:	LD50
Resultaat:	333 - 388 mg/kg

Product / ingrediënt	natriumhydroxide
Resultaat:	45.4 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Konijn
Test:	LD lo
Resultaat:	500 mg/kg

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Huidcorrosie/-irritatie

Product / ingrediënt	iT.33 laundry booster pro
Resultaat:	Schadelijke effecten waargenomen (Heel irriterend)

Product / ingrediënt	kaliumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Corrosief)

Product / ingrediënt	natriumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Irriterend)

Veroorzaakt ernstige brandwonden en oogletsel.

Ernstig oogletsel/oogirritatie

Product / ingrediënt	iT.33 laundry booster pro
Resultaat:	Schadelijke effecten waargenomen (Veroorzaakt ernstig oogletsel)

Product / ingrediënt	kaliumhydroxide
Resultaat:	Schadelijke effecten waargenomen (Heel corrosief)

Product / ingrediënt	natriumhydroxide
Testmethode:	OESO 405
Soorten:	Konijn
Resultaat:	Schadelijke effecten waargenomen (Corrosief)

Veroorzaakt ernstig oogletsel.

Sensibilisatie van de luchtwegen

Product / ingrediënt	kaliumhydroxide
Resultaat:	Geen schadelijke effecten waargenomen (niet sensibiliserend)

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Sensibilisatie van de huid

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Mutageniteit in geslachtscellen

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Kankerverwekkend

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Giftigheid voor de voortplanting

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

STOT bij eenmalige blootstelling

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

STOT bij herhaalde blootstelling

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

Gevaar bij inademing

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

11.2. Informatie over andere gevaren

Effecten op lange termijn

Weefsel vernietigende bijwerking: Het product bevat stoffen die bijtend zijn. Als damp of aerosolen worden ingeademd, kan dit schade brengen aan de longen en irritatie en een branderig gevoel veroorzaken in de luchtwegen alsmede hoesten. Bijtende stoffen kunnen irreversibele beschadigingen veroorzaken aan de ogen. Bijt in de huid.

Hormoonontregelende eigenschappen

Dit mengsel/product bevat geen stoffen die worden beschouwd als het hebben van hormoonverstorende eigenschappen met betrekking tot de gezondheid.

Overige informatie

Niet bekend.

RUBRIEK 12: ECOLOGISCHE INFORMATIE

12.1. Toxiciteit

Product / ingrediënt	iT.33 laundry booster pro
Soorten:	Andere waterorganismen, <i>Leuciscus idus</i>
Milieucompartiment:	Water
Duur:	96 uur
Test:	LC50
Resultaat:	>100 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Bacterie, <i>Pseudomonas putida</i>
Test:	EC0
Resultaat:	>100 mg/L

Product / ingrediënt	natriumhydroxide
Soorten:	Watervlo, <i>Ceriodaphnia dubia</i>
Duur:	48 uur
Resultaat:	40.4 mg/L

Product / ingrediënt	natriumhydroxide
Testmethode:	OESO 203
Soorten:	Vis, <i>Oncorhynchus mykiss</i>
Duur:	96 uur
Test:	LC50
Resultaat:	45.4 mg/L

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

12.2. Persistentie en afbreekbaarheid

Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

12.3. Bioaccumulatie

Product / ingrediënt	natriumhydroxide
Conclusie:	Bioaccumulatie wordt niet verwacht

12.4. Mobiliteit in de bodem

Geen gegevens beschikbaar.

12.5. Resultaten van PBT- en zPzB-beoordeling

Dit mengsel/product bevat geen stoffen die aan de criteria voldoen om ze als PBT en/of zPzB te classificeren.

12.6. Hormoonontregelende eigenschappen

Dit mengsel/product bevat geen stoffen die worden beschouwd als het hebben van endocrien-verstorende eigenschappen met betrekking tot het milieu.

12.7. Andere schadelijke effecten

Niet bekend.

RUBRIEK 13: INSTRUCTIES VOOR VERWIJDERING

13.1. Afvalverwerkingsmethoden

Dit product valt onder de wetgeving inzake gevaarlijke afvalstoffen. (*)

HP 8 - Corrosief

Inhoud/verpakking afvoeren naar overeenkomstig de plaatselijke/regionale/nationale/internationale voorschriften. Verordening (EU) Nr. 1357/2014 van de Commissie van 18 december 2014 betreffende afvalstoffen.

Euralcode:

20 01 29* Detergenten die gevaarlijke stoffen bevatten

Verontreinigde emballage

Verpakking met restinhoud van het product wegwerken volgens dezelfde voorwaarden als het product.

RUBRIEK 14: INFORMATIE MET BETREKKING TOT HET VERVOER

	14.1 VN	14.2 Juiste ladingnaam van de VN	14.3 Transportgevaarklasse(n)	14.4 PG*	14.5. Env**	Andere informatie :
ADR	UN1719	BIJTENDE ALKALISCHE VLOEISTOF, N.E.G. (kaliumhydroxide, natriumhydroxide)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Gelimiteerd e hoeveelhed en: 1 L Code voor beperkinge n in tunnels: (E) Zie hieronder voor meer informatie.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Gelimiteerd e hoeveelhed en: 1 L EmS: F-A S-B Zie hieronder voor meer informatie.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Etiketten: 8 Classificatiecode: C5 	II	Nee	Zie hieronder voor meer informatie.

* Verpakkingsgroep

** Milieugevaren

Overig

Het product valt onder de conventies voor gevaarlijke goederen.

ADR / Zie tabel A, rubriek 3.2.1, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer. Zie rubriek 5.4.3, voor schriftelijke instructies betreffende het beperken van schade in verband met incidenten of ongevallen tijdens het vervoer.

IMDG / Zie rubriek 3.2.1, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer.

IATA / Zie tabel 4.2, voor eventuele informatie over speciale bepalingen, voorschriften of waarschuwingen in verband met het vervoer.

14.6. Bijzondere voorzorgen voor de gebruiker

Niet van toepassing.

14.7. Zeevervoer in bulk overeenkomstig IMO-instrumenten

Geen gegevens beschikbaar.

RUBRIEK 15: REGELGEVING

15.1. Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel

Beperkingen bij gebruik:

Uitsluitend voor gebruik door professionele gebruiker.

Het product mag niet beroepshalve worden gebruikt door personen jonger dan 18 jaar.

Eisen t.o.v. speciale opleidingen:

Geen bijzondere eisen.

SEVESO - Gevarencategorieën / Gevaarlijke stoffen:

Niet van toepassing.

Overig:

Niet van toepassing.

Bronnen:

Richtlijn 94/33/EG van de Raad van 22 juni 1994 betreffende de bescherming van jongeren op het werk.

Verordening (EG) nr. 648/2004 van het Europees Parlement en de Raad van 31 maart 2004 betreffende detergentia.

Verordening (EU) Nr. 1357/2014 van de Commissie van 18 december 2014 betreffende afvalstoffen.

Verordening (EG) nr. 1272/2008 van het Europees Parlement en de Raad van 16 december 2008 betreffende de indeling, etikettering en verpakking van stoffen en mengsels (CLP).

Verordening (EG) nr. 1907/2006 van het Europees Parlement en de Raad van 18 december 2006 inzake de registratie en beoordeling van en de autorisatie en beperkingen ten aanzien van chemische stoffen (REACH).

15.2. Chemischeveiligheidsbeoordeling

Nee

RUBRIEK 16: OVERIGE INFORMATIE

De volledige tekst van de H-zinnen genoemd in rubriek 3

H290, Kan bijtend zijn voor metalen.

H302, Schadelijk bij inslikken.

H314, Veroorzaakt ernstige brandwonden en oogletsel.

H315, Veroorzaakt huidirritatie.

H318, Veroorzaakt ernstig oogletsel.

H319, Veroorzaakt ernstige oogirritatie.

Afkortingen en acroniemen

ADN = Europese wetgeving met betrekking tot het vervoer van gevaarlijke goederen over binnewateren

ADR = Europese overeenkomst met betrekking tot het vervoer van gevaarlijke goederen over de weg

ATE = Acute toxiciteitsbeoordeling

BCF = Bioconcentratie Factor

CAS = Chemical Abstracts Service

CE = Conformité européenne

CLP = Indeling, etikettering en verpakking van stoffen en mengsels [Verordening (EG) No. 1272/2008]
CSA = Chemische Veiligheidsbeoordeling
CSR = rapporten over de chemische veiligheid (CSR - Chemical Safety Reports)
DNEL = De afgeleide dosis zonder effect
EAC = Europese Afval Catalogoog
EINECS = European INventory of Existing Commercial Substances
ES = blootstellingsscenario
EUH zin = CLP-specifieke gevaarszin
EuPCS = Europees productindelingssysteem
GHS = Globaal geharmoniseerd systeem voor indeling, kenmerking en etikettering van chemische stoffen en mengsels
GWP = Aardopwarmingsvermogen
IATA = Internationaal Lucht Transport Vereniging
IBC = Tussentijdse bulk container
IMDG = Internationaal Maritiem Transport voor Gevaarlijke goederen
LogPow = Logaritme van de octaan/water partitie coëfficiënt
MARPOL = Internationale conventie voor de preventie van vervuiling door schepen, 1973 en aangepast door het protocol van 1978. ("Marpol" = zee vervuילend)
OESO = Organisatie voor Economische Samenwerking en Ontwikkeling
PBT = Persistent, Bioaccumulatief en Toxisch
PNEC = Voorspelde geen effect concentratie
RID = Regelgeving met betrekking tot het vervoer van gevaarlijke goederen over het spoor
RRN = REACH registratie nummer
SCL = Specifieke concentratielimiet.
SVHC = Zeer zorgwekkende stoffen
STOT-RE = specifieke doelorgaantoxiciteit - herhaalde blootstelling
STOT-SE = specifieke doelorgaantoxiciteit - enkelvoudige blootstelling
TGG = Tijd gewogen gemiddelde
UVBC = Stoffen van onbekende of variabele samenstelling, complexe reactieproducten of biologische materialen.
VN = Verenigde Naties
VOS = Vluchtige Organische Stoffen
zPzB = zeer Persistent en zeer Bioaccumulatief

Overig

De indeling van het stof/mengsel ten aanzien van de gevaren voor de gezondheid in overeenstemming zijn met de berekeningsmethoden die door Verordening (EC) nr 1272/2008 (CLP).

Het veiligheidsinformatieblad is gevalideerd door

Quality & Compliance

Overig

Veranderingen ten opzichte van de vorige belangrijke revisie (eerste cijfer in de SDS-versie, zie rubriek 1) van dit veiligheidsinformatieblad zijn gemarkeerd met een driehoek.
De inlichtingen in dit veiligheidsinformatieblad gelden alleen voor het product genoemd in rubriek 1 en hoeven niet te gelden bij gebruik samen met andere producten.
Het is aan te bevelen dit veiligheidsinformatieblad af te geven aan de eigenlijke gebruiker van het product. De genoemde informatie dient niet als productspecificatie.
Land-taal: NL-nl

SIKKERHETSDATABLAD

iT.33 laundry booster pro

AVSNITT 1: IDENTIFIKASJON AV STOFFET/STOFFBLANDINGEN OG AV SELSKAPET/FORETAKET

1.1. Produktidentifikator

Handelsnavn:

iT.33 laundry booster pro

Unik Formular Identifikasjon (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevante identifiserte bruksområder for stoffet eller stoffblandingen og bruk som frarådes

Aktuelle identifiserte anvendelser for stoffet eller blandingen:

Vaske- og rengjøringsmidler (inkludert løsemiddelbasert)

Bare for yrkesbrukere.

Ikke tilrådte anvendelser:

Ingen kjente

1.3. Opplysninger om leverandøren av sikkerhetsdatabladet

Selskapsopplysninger:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-post:

info@hygeniq.com

Revidert:

14.08.2025

SDS Versjon:

2.0

Dato for forrige utgave:

28.07.2025 (1.0)

1.4. Nødtelefonnummer

Nødsituasjon: Ring 113, be om giftinformasjonen. Åpent 24 timer i døgnet.

Giftinformasjonen på tlf.nr.: +47 22 59 13 00

Se avsnitt 4 om 'Førstehjelpstiltak'

AVSNITT 2: FAREIDENTIFIKASJON

Klassifisert i henhold til CLP-forskriften.

2.1. Klassifisering av stoffet eller stoffblandingen

Met. Corr. 1; H290, Kan være etsende for metaller.

Skin Corr. 1A; H314, Gir alvorlige etseskader på hud og øyne.

Eye Dam. 1; H318, Gir alvorlig øyeskade.

2.2. Merkingselementer

Farepiktogram:



Varselord:

Fare

Faresetninger:

Kan være etsende for metaller. (H290)

Gir alvorlige etseskader på hud og øyne. (H314)

Sikkerhetssetning(er):

▼ Generelt:

Ikke relevant.

Forebygging:

Ikke innånd damp/tåke. (P260)

Benytt øyevern/vernehansker/verneklær. (P280)

▼ Tiltak:

VED HUDKONTAKT (eller håret): Tilsølte klær må fjernes straks. Skyll eller dusj huden med vann. (P303+P361+P353)

VED KONTAKT MED ØYNENE: Skyll forsiktig med vann i flere minutter. Fjern eventuelle kontaktlinser dersom dette enkelt lar seg gjøre. Fortsett skyllingen. (P305+P351+P338)

Kontakt umiddelbart et GIFTINFORMASJONSSENTER/lege. (P310)

Oppbevaring:

Oppbevares i beholder med korrosjonsbestandig indre belegg. (P406)

Disponering:

Innhold/beholder leveres i samsvar med lokale bestemmelser (P501)

Inneholder:

potassium hydroxidecaustic potash

natriumhydroksid;kaustisk soda;natronlut

Annen merkning:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Andre farer

Annet:

Blandingen/produktet inneholder ikke noen stoffer som oppfyller kriteriene som klassifiserer dem som PBT og/eller vPvB.

Produktet inneholder ingen stoffer som er vurdert til å være hormonforstyrrende i henhold til kriteriene i kommisjonens delegerede forordning (EU) 2017/2100 eller kommisjonsforordning (EU) 2023/707.

AVSNITT 3: SAMMENSETNING / OPPLYSNINGER OM BESTANDDELER

3.1. Stoffer

Ikke relevant. Dette produktet er en stoffblanding.

3.2. ▼ Stoffblandinger

Produkt/bestanddel	Identifikatorer	% w/w	Klassifisering	Anm.
potassium hydroxidecaustic potash	CAS-nr.: 1310-58-3 EF-nr.: 215-181-3 REACH: Indeksnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natriumhydroksid;kaustisk soda;natronlut	CAS-nr.: 1310-73-2 EF-nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Indeksnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Se avsnitt 16 for de fullstendige H-setningene det vises til ovenfor. Tiltaks- og grenseverdier, hvis tilgjengelig, er oppført i avsnitt 8.

Annen informasjon

-

AVSNITT 4: FØRSTEHJELPSTILTAK

4.1. Beskrivelse av førstehjelpstiltak

Generelt:

Ved uhell: Kontakt lege eller legevakt - ta med etiketten eller dette sikkerhetsdatabladet.

Ved vedvarende symptomer eller ved tvil om den skaddes tilstand skal det søkes legehjelp. Gi aldri en bevisstløs person vann eller lignende.

Innånding:

Ved pustevansker eller irritasjon i luftveiene: Ta personen ut i frisk luft og hold personen under oppsyn.

Hudkontakt:

Det er viktig å skylle lenge - minimum 30 minutter. Det kan være nødvendig å skylle i flere timer. Bruk behagelig temperatur på vannet (20-30 °C). Kontakt Giftinformasjon/lege/sykehus for videre råd om oppfølging og behandling.

Tilsølt tøy og sko fjernes. Hud som har vært i kontakt med materialet vaskes grundig med vann og såpe.

Hudrensemiddel kan brukes. Bruk IKKE løsemidler eller fortynnere.

Ved hudirritasjon: Søk legehjelp.

Øyekontakt:

Ved kontakt med øynene: Hold øyelokkene fra hverandre slik at vannet kommer godt til. Om man bruker kontaktlinser skal disse fjernes så raskt som mulig. Skyll straks øynene med rikelig vann (20-30 °C) til irritasjonen opphører, og minst i 30 minutter. Sørg for å skylle under øvre og nedre øyelokk. Oppsøk legevakt/sykehus straks. Fortsett skylking under transport.

Svelging:

Ved inntak, kontakt omgående lege. Gi den skadde vann å drikke hvis vedkommende er ved bevissthet. Forsøk IKKE å fremkalle brekninger med mindre legen anbefaler det. Senk hodet, slik at oppkast ikke vil renne ned i munnen og halsen. Forebygg sjokk ved å holde den skadde varm og i ro. Gi kunstig åndedrett hvis personen slutter å puste.

Ved bevisstløshet, legg den skadde i stabilt sideleie. Tilkall ambulanse.

Forbrenning:

Ikke relevant.

4.2. De viktigste symptomene og virkningene, både akutte og forsinkede

Vesvødeleggende virkninger: Produktet inneholder stoffer som er etsende. Hvis damp eller aerosoler innåndes kan det gi skader på lungene og forårsake irritasjon og svie i åndedretsorganene, samt hoste. Etsende stoffer kan forårsake uopprettelige skader på øyne. Etses huden.

4.3. Angivelse av om umiddelbar legehjelp og spesialbehandling er nødvendig

Ved eksponering eller mistanke om eksponering:

Søk legehjelp umiddelbart.

Merknader til lege

Ta med dette sikkerhetsdatabladet eller etiketten fra materialet.

AVSNITT 5: BRANNSLOKKINGSTILTAK

5.1. Slökkingsmidler

Ikke relevant.

5.2. Særlige farer knyttet til stoffet eller stoffblandingen

Brann vil utvikle tett røyk. Det kan utgjøre helsefare å bli utsatt for nedbrytningsprodukter. Lukkede beholdere som utsettes for ild, avkjøles med vann. La ikke vann fra brannsløkking renne ut i kloakk og vannløp.

Hvis produktet utsettes for høye temperaturer, f.eks. i tilfelle brann, kan det dannes farlige nedbrytningsprodukter. Disse er:

Noen metalloksider

5.3. Råd til brannmannskaper

Brannsløkningspersonell skal bruke egnet verneutstyr og selvforsynt åndedrettsvern med full ansiktsmaske.

AVSNITT 6: TILTAK VED UTILSIKTEDE UTSLIPP

6.1. Personlige forsiktighetsregler, personlig verneutstyr og nødrutiner

Unngå direkte kontakt med søl.

Sørg for egnet ventilasjon, spesielt i lukkede områder.

Områder med spill kan være glatte.

6.2. Forsiktighetsregler med hensyn til miljø

Unngå utledning til sjøer, bekker, kloakker mm.

Hold uvedkommende borte fra fareområdet.

6.3. Metoder og materialer for oppsamling og rensing

Utslipp begrenses og samles opp med brannfast, absorberende materiale som f.eks. sand, jord, vermikulitt eller kiselgur og has i en beholder for forskriftsmessig avfallshåndtering.

Rengjøring foretas så langt som det er mulig med rengjøringsmidler. Løsemidler bør unngås.

6.4. Henvisning til andre avsnitt

Se avsnitt 13 "Sluttbehandling" om håndtering av avfall.

Se avsnitt 8 "Eksponeringskontroll/personlig verneutstyr" for beskyttelsesforanstaltninger.

AVSNITT 7: HÅNTERING OG LAGRING

7.1. Forsiktighetsregler for sikker håndtering

Unngå direkte kontakt med produktet.

Røking, inntak av mat og drikke er ikke tillatt i arbeidsområdet.

Se avsnitt 8 'Eksponeringskontroll / personlig verneutstyr' for opplysning om personlig beskyttelse.

7.2. Vilkår for sikker lagring, herunder eventuelle uforenligheter

Åpnede beholdere må lukkes forsvarlig og oppbevares stående for å unngå lekkasje.
Oppbevares i beholder med korrosjonsbestandig indre belegg.

Egnet emballasje:

Oppbevares bare i originalemballasjen.

Oppbevaringsbetingelser:

Tørt, kjølig og godt ventilert

Uforenlige materialer:

Sterke syrer, sterke baser, sterke oksideringsmidler og sterke reduksjonsmidler.

7.3. Særlig(e) sluttanvendelse(r)

Dette produktet bør bare brukes til formål som beskrevet i avsnitt 1.2.

AVSNITT 8: EKSPONERINGSKONTROLL / PERSONLIG VERNEUTSTYR

8.1. Kontrollparametrer

potassium hydroxidecaustic potash

Grenseverdi (8 timer) (mg/m³): 2

Anmerkning:

T = Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides.

natriumhydroksid;kaustisk soda;natronlut

Grenseverdi (8 timer) (mg/m³): 2

Anmerkning:

T = Takverdi er en øyeblikksverdi som angir maksimalkonsentrasjon av et kjemikalie i pustesonen som ikke skal overskrides.

Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier). FOR-2011-12-06-1358. Sist endret: FOR-2024-04-05-581.

DNEL

natriumhydroksid;kaustisk soda;natronlut

Varighet:	Opptaksvei:	DNEL:
Langsiktig – Systemiske effekter - Arbeidere	Dermal	<2 %
Langsiktig – Systemiske effekter - Befolkningen generelt	Dermal	2 %
Langsiktig – Lokaleffekter - Arbeidere	Innånding	1 mg/m ³
Langsiktig – Lokaleffekter - Befolkningen generelt	Innånding	1 mg/m ³

potassium hydroxidecaustic potash

Varighet:	Opptaksvei:	DNEL:
Langsiktig – Lokaleffekter - Arbeidere	Innånding	1 mg/m ³
Langsiktig – Lokaleffekter - Befolkningen generelt	Innånding	1 mg/m ³

PNEC

natriumhydroksid;kaustisk soda;natronlut

Opptaksvei:	Eksposeringens varighet:	PNEC:
Ferskvann		6.4 mg/L
Ferskvannssediment		23 mg/kg TG

Hawann		0.64 mg/L
Jord		0.853 mg/kg TG
Periodisk utslipp		3.1 mg/L
Periodisk utslipp (hawann)		2.3 mg/kg TG
Renseanlegg		51 mg/L

8.2. Eksponeringskontroll

Det bør kontrolleres regelmessig at de angitte grenseverdiene overholdes.

Generelt:

Røking, inntak av mat og drikke er ikke tillatt i arbeidsområdet.

Eksponeringsscenarioer:

Ingen eksponeringsscenarioer er implementert for dette produktet.

Eksponeringsgrenser:

Bedriftsrelaterte brukere er omfattet av arbeidsmiljølovgivningens regler om maksimumkonsentrasjoner for eksponering. Se arbeidshygieniske grenseverdier ovenfor.

Tekniske tiltak:

Dannelsen av damp må holdes på et minimum og under den gjeldende grenseverdien (se over). Det anbefales å installere et lokalt utluftingssystem dersom den vanlige luftstrømmen i arbeidsrommet ikke er tilstrekkelig. Sørg for at øyevask og dusj for nødsituasjoner er godt merket.

Sørg for at øyeskyllestasjoner og sikkerhetsdusjer er plassert innen rekkevidde.

Følg standard forholdsregler ved bruk av produktet. Unngå inhalering av damp.

Hygieniske tiltak:

Ved hver pause i bruk av produktet og ved arbeidsstans skal eksponerte områder av kroppen vaskes. Vær ekstra nøye med hender, underarmer og ansikt.

Begrensning av eksponering av miljøet:

Hold oppdemningsmaterialer i nærheten av arbeidsplassen. Samle om mulig inn søl i løpet av arbeidet.

Individuelle vernetiltak

Generelt:

Benytt utelukkende CE-merket verneutstyr.

Åndedrettsvern:

Type	Klasse	Farge	Standarder	
Åndedrettsvern er ikke nødvendig ved tilstrekkelig ventilasjon.				

Kroppsværn:

Anbefalt	Type/Kategori	Standarder	
Spesialarbeidstøy bør anvendes	-	-	

Håndvern:

Arbeidssituasjon	Materiale	Hansketykkelse (mm)	Gjennomtrengningstid (min.)	Standarder	
Ved langvarig eksponering eller høye konsentrasjoner	Nitril	0.4	> 480	EN374-2, EN16523-1, EN388	

Arbeidssituasjon	Materiale	Hanskeykkelse (mm)	Gjennomtrengningstid (min.)	Standarder	
Ved kortvarig eksponering eller lave konsentrasjoner	Nitril	1,5	> 30	EN374-2, EN16523-1, EN388	

Øyevern:

Type	Standarder	
Bruk beskyttelsesbriller med sideskjold.	EN166	

AVSNITT 9: FYSISKE OG KJEMISKE EGENSKAPER

9.1. Opplysninger om grunnleggende fysiske og kjemiske egenskaper

Tilstandsform:

Væske

Farge:

Svakt gul

▼ Lukt / Luktterskel (ppm):

Mild

pH:

13.5

Tetthet (g/cm³):

1,29 (20 °C)

Kinematisk viskositet:

Ingen data tilgjengelige.

Partikkelegenskaper:

Ikke relevant - produktet er en væske

Tilstandsending og damptrykk

Smeltepunkt/Frysepunkt (°C):

Ingen data tilgjengelige.

Bløtgjøringspunkt / -område (°C):

Ikke relevant - produktet er en væske

Kokepunkt (°C):

100

Damptrykk:

Ingen data tilgjengelige.

Relativ damptetthet:

Ingen data tilgjengelige.

Spaltingstemperatur (°C):

Ingen data tilgjengelige.

Data for brann- og eksplosjonsfarer

Flammepunkt (°C):

Ingen data tilgjengelige.

Antennelighet (°C):

Ingen data tilgjengelige.

Selvantennelsestemperatur (°C):

Ingen data tilgjengelige.

Nedre og øvre eksplosjonsgrense (% v/v):

Ingen data tilgjengelige.

Løselighet

Løselighet i vann:

Fullt oppløselig

Fordelingskoeffisient (n-octanol/vann) (LogKow):

Ingen data tilgjengelige.

Løselighet i fett (g/L):

Ingen data tilgjengelige.

9.2. Andre opplysninger

Andre fysiske og kjemiske parametere:

Ingen data tilgjengelige.

Oksiderende egenskaper:

Ingen data tilgjengelige.

AVSNITT 10: STABILITET OG REAKTIVITET

10.1. Reaktivitet

Ingen data tilgjengelige.

10.2. Kjemisk stabilitet

Produktet er stabilt under de betingelsene som er angitt i avsnitt 7 om "Håndtering og lagring".

10.3. Risiko for farlige reaksjoner

Ingen kjente

10.4. Forhold som skal unngås

Ingen kjente

10.5. Uforenlige materialer

Sterke syrer, sterke baser, sterke oksideringsmidler og sterke reduksjonsmidler.

10.6. Farlige nedbrytningsprodukter

Termisk nedbrytning kan produsere etsende damper.

AVSNITT 11: TOKSIKOLOGISKE OPPLYSNINGER

11.1. Opplysninger om fareklasser som definert i forordning (EF) nr. 1272/2008

Akutt giftighet

Produkt/bestanddel	potassium hydroxidecaustic potash
Art:	Rotte, hanner
Opptaksvei:	Oral
Test:	LD50
Resultat:	333 - 388 mg/kg

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Resultat:	45.4 mg/L

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Art:	Kanin
Test:	LD 10
Resultat:	500 mg/kg

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Hudetsing/hudirritasjon

Produkt/bestanddel	iT.33 laundry booster pro
Resultat:	Negative effekter observert (Høy irritasjon)

Produkt/bestanddel	potassium hydroxidecaustic potash
Resultat:	Negative effekter observert (Etsende)

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Resultat:	Negative effekter observert (Irritasjon)

Gir alvorlige etseskader på hud og øyne.

Alvorlig øyeskade/øyeirritasjon

Produkt/bestanddel	iT.33 laundry booster pro
Resultat:	Negative effekter observert (Gir alvorlig øyeskade)

Produkt/bestanddel	potassium hydroxidecaustic potash
Resultat:	Negative effekter observert (Høyt etsende)

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Testmetode:	OECD 405
Art:	Kanin
Resultat:	Negative effekter observert (Etsende)

Gir alvorlig øyeskade.

Sensibilisering ved innånding

Produkt/bestanddel	potassium hydroxidecaustic potash
Resultat:	Ingen negative effekter observert (ikke sensibiliserende)

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Sensibilisering ved hudkontakt

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Arvestoffskadelig virkning på kjønnseller

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Kreftframkallende egenskaper

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Reproduksjonstoksisitet

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

STOT, enkelteksponering

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

STOT, gjentatt eksponering

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

Aspirasjonsfare

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

11.2. Opplysninger om andre farer

Langsiktige virkninger

Vevsødeleggende virkninger: Produktet inneholder stoffer som er etsende. Hvis damp eller aerosoler innåndes kan det gi skader på lungene og forårsake irritasjon og svie i åndedretsorganene, samt hoste. Etsende stoffer kan forårsake uopprettelige skader på øyne. Etser huden.

Hormonforstyrrende egenskaper

Blandingen/produktet inneholder ingen stoffer som anses å ha hormonforstyrrende egenskaper som kan påvirke helsen.

Andre opplysninger

Ingen kjente

AVSNITT 12: ØKOLOGISKE OPPLYSNINGER

12.1. Giftighet

Produkt/bestanddel	iT.33 laundry booster pro
Art:	Andere waterorganismen, Leuciscus idus
Miljø:	Vann
Varighet:	96 timer
Test:	LC50
Resultat:	>100 mg/L

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Art:	Bakterie, Pseudomonas putida
Test:	EC0
Resultat:	>100 mg/L

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Art:	Vannloppe, Ceriodaphnia dubia
Varighet:	48 timer
Resultat:	40.4 mg/L

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Testmetode:	OECD 203
Art:	Fisk, Oncorhynchus mykiss
Varighet:	96 timer
Test:	LC50
Resultat:	45.4 mg/L

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

12.2. Persistens og nedbrytbarhet

Basert på tilgjengelige data er klassifiseringskriteriene ikke oppfylt.

12.3. Bioakkumuleringsevne

Produkt/bestanddel	natriumhydroksid;kaustisk soda;natronlut
Konklusjon:	Bioakkumulering forventes ikke

12.4. Mobilitet i jord

Ingen data tilgjengelige.

12.5. Resultater av PBT- og vPvB-vurdering

Blandingen/produktet inneholder ikke noen stoffer som oppfyller kriteriene som klassifiserer dem som PBT og/eller vPvB.

12.6. Hormonforstyrrende egenskaper

Blandingen/produktet inneholder ingen stoffer som anses å ha hormonforstyrrende egenskaper som kan påvirke miljøet.

12.7. Andre skadevirkninger

Ingen kjente

AVSNITT 13: SLUTTBEHANDLING

13.1. Avfallsbehandlingsmetoder

Dette produktet er omfattet av regelverket om farlig avfall. (*)

HP 8 Etsende

Innhold/holder leveres til godkjent avfallsanlegg.

Fraråde tømning i avløp.

Forskrift 1. juni 2004 nr. 930 om gjenvinning og behandling av avfall (avfallsforskriften).

Avfallskode EAL:

20 01 29* Rengjøringsmidler som inneholder farlige stoffer

Forurenset emballasje

Emballasje med restinnhold av produktet skal avhendes etter samme bestemmelser som produktet.

AVSNITT 14: TRANSPORTOPPLYSNINGER

	14.1 FN- eller ID-nummer	14.2 FN-forsendelsesnavn	14.3 Transportfareklasse(r)	14.4 Emballasje- grupp e	14.5 Miljøfa rer	Annen informa sjon:
ADR	UN1719	ETSENDE ALKALISK VÆSKE, N.O.S. (potassium hydroxidecaustic potash, natriumhydroksid;kaustisk soda;natronlut)	Klasse: 8 Faresedler: 8 Klassifiseringskoder: C5 	II	Nei	Begrense de mengder: 1 L Tunnel restriksjo nskoder: (E) Se mer informasj on under.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Faresedler: 8 Klassifiseringskoder: C5 	II	Nei	Begrense de mengder: 1 L EmS: F-A S-B Se mer informasj on under.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasse: 8 Faresedler: 8 Klassifiseringskoder: C5 	II	Nei	Se mer informasj on under.

Annen informasjon

Produktet er omfattet av konvensjonene om farlig gods.

ADR / See Tabell A, punkt 3.2.1 for eventuell informasjon om spesielle bestemmelser, krav eller advarsler i forbindelse med transport. Se punkt 5.4.3, for skriftlige instruksjoner om tapsbegrensning ved hendelser eller ulykker under transport.

IMGD / See punkt 3.2.1 for eventuell informasjon om spesielle bestemmelser, krav eller advarsler i forbindelse med transport.

IATA / See Tabell 4.2 for eventuell informasjon om spesielle bestemmelser, krav eller advarsler i forbindelse med transport.

14.6. Særlige forsiktighetsregler ved bruk

Ikke relevant.

14.7. Sjøtransport i bulk i henhold til IMO-instrumenter

Ingen data tilgjengelige.

AVSNITT 15: OPPLYSNINGER OM REGELVERK

15.1. Særlige bestemmelser / særskilt lovgivning om sikkerhet, helse og miljø for stoffet eller stoffblandingen

Anvendelsesbegrensninger:

Bare for yrkesbrukere.

Produktet må ikke brukes profesjonelt av personer under 18 år.

Krav om særlig utdanning:

Ingen spesielle krav.

SEVESO - Farekategorier / spesifiserte farlige kjemikalier:

Ikke relevant.

Deklarering av kjemikalier:

Dersom produktet importeres til eller produseres i Norge i mengder på 100 kg/år er det registreringspliktig i produktregisteret fordi det er klassifisert som farlig.

Annen informasjon:

Ikke relevant.

Kilder:

Lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid og stillingsvern mv. (arbeidsmiljøloven, kapittel 11. arbeid av barn og ungdom).

EUROPAPARLAMENTS- OG RÅDSFORORDNING (EF) nr. 648/2004 av 31. mars 2004 om vaske- og rengjøringsmidler Forskrift 1. juni 2004 nr. 930 om gjenvinning og behandling av avfall (avfallsforskriften).

Forskrift 19. mai 2015 nr. 541 om deklareringsplikt for kjemikalier til produktregisteret (deklareringsforskriften).

Forskrift 16. juni 2012 nr. 622 om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP-forskriften).

Forskrift 30. mai 2008 nr. 516 om registrering, vurdering, godkjenning og begrensning av kjemikalier (REACH-forskriften).

15.2. Vurdering av kjemikaliesikkerhet

Nei

AVSNITT 16: ANDRE OPPLYSNINGER

Fullstendig tekst for H-setninger som det refereres til i avsnitt 3

H290, Kan være etsende for metaller.

H302, Farlig ved svelging.

H314, Gir alvorlige etseskader på hud og øyne.

H315, Irriterer huden.

H318, Gir alvorlig øyeskade.

H319, Gir alvorlig øyeirritasjon.

Forkortelser og akronymer

ADN/ADNR = Europeisk avtale om internasjonal transport av farlig gods på innenlands vannveier
ADR = Forskrift 1. april 2009 om landtransport av farlig gods
ATE = Akutt toksisitets estimat
BCF = Biokonsentrasjons faktor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Klassifisering, merking og innpakning
CSA = Kjemisk sikkerhetsvurdering
CSR = Kjemisk sikkerhetsrapport
DMEL = Oppnådd minimalt effekt nivå
DNEL = Oppnådd ingen effekt nivå
EINECS = Fortegnelse over eksisterende kommersielle kjemiske substanser
ES = Eksponeringsscenario
EUH statement = CLP-spesifikk fareerklæring
EuPCS = Europeisk produktkategoriseringssystem
EWC = Europeisk Avfallskatalog
GHS = Globalt Harmonisert System for Klassifisering og Merking av Kjemikalier
GWP = Potensial for global oppvarming
IATA/ICAO = Internasjonal lufttransport Forening
IBC = Middels Bulk Kontainer
IMDG = Internasjonal Maritim Farlig Gods
LogPow = Logaritmen til fordelingskoeffisienten for oktanol / vann
MARPOL 73/78 = Den Internasjonale Konvensjonen til Forhindring av Marin Forurensning fra Skip, 1973, modifisert i 1978
OECD = Organisasjonen for økonomisk samarbeid og utvikling
PBT = Persistent, Bioakkumulerbar og Giftig
PNEC = Forutsatt ingen effekt konsentrasjon
RID = Forskrift 1. april 2009 om landtransport av farlig gods
RRN = REACH registrerings nummer
SCL = Spesifikk konsentrasjonsgrense.
SVHC = Stoffer med meget høy viktighet
STOT-RE = Giftig mot spesifikt målorgan - Gjentatt eksponering
STOT-SE = Giftig mot spesifikt målorgan - Enkel eksponering
TWA = Tidsvektet gjennomsnittlig
UN = Forenede Nasjoner
UVBC = Ukjent eller variabel sammensetning, komplekse reaksjonsprodukter eller biologiske materialer.
VOC = Flyktig organisk forbindelse
vPvB = Meget persistente og meget bioakkumulerende

Annen informasjon

Klassifiseringen av blandingen når det gjelder helsefarer er i samsvar med beregningsmetodene som er beskrevet i CLP-forskriften.

Sikkerhetsdatablad er validert av

Quality & Compliance

Annet

Endringer i forhold til siste vesentlige revisjon (første siffer i SDS-versjon, se avsnitt 1) av dette sikkerhetsdatablad er markert med en trekant.

Opplysningene i dette sikkerhetsdatabladet gjelder kun produktet nevnt i avsnitt 1 og er ikke nødvendigvis gjeldende ved bruk sammen med andre produkter.

Det anbefales å utlevere dette sikkerhetsdatabladet til den faktiske bruker av produktet. Den nevnte informasjonen kan ikke brukes som produktspesifikasjon.

Land-språk: NO-nb

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name:

iT.33 laundry booster pro

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

Emergency telephone number

National Poisons Centre: 0800 764 766 (24 hour service)

See also section 4 "First aid measures"

SECTION 2: HAZARDS IDENTIFICATION

Classified according to the Hazardous Substances (Hazard Classification) Notice.

Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable. This product is a mixture.

▼ **Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	

sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Not applicable.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Centre: 0800 764 766 (24 hour service) in order to obtain further advice.

Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

potassium hydroxide;caustic potash

Ceiling value (mg/m³): 2

sodium hydroxide;caustic soda

Ceiling value (mg/m³): 2

Workplace exposure standards and biological exposure indices. Edition 14, November 2023.

Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only protective equipment that have been approved by IANZ or NATA, or a laboratory accredited under a recognised Mutual Recognition Arrangement.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Conforms to the Hazardous Substances (Safety Data Sheets) Notice 2017

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

Possibility of hazardous reactions

None known.

Conditions to avoid

None known.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

Persistence and degradability

Based on available data, the classification criteria are not met.

Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

Mobility in soil

No data available.

Conforms to the Hazardous Substances (Safety Data Sheets) Notice 2017

Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
Hazchem Code: 2R

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 15 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Control of major hazard facilities:

Not applicable.

Additional information:

Not applicable.

New Zealand Inventory of Chemicals (NZIoC):

potassium hydroxide;caustic potash is listed

sodium hydroxide;caustic soda is listed

Sources:

Health and Safety at Work (General Risk and Workplace Management) Regulations 2016 (LI 2016/13)

Hazardous Substances (Hazard Classification) Notice 2020

Hazardous Substances and New Organisms Act 1996

Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

AS/NZS = Australian New Zealand Standard

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

EINECS = European Inventory of Existing Commercial chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Hazchem = Hazardous chemicals

HSNO = Hazardous Substances and New Organisms Act

IANZ = International Accreditation New Zealand

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NATA = National Association of Testing Authorities

NZIoC = New Zealand Inventory of Chemicals

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL = A specific concentration limit

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by the Hazardous Substances (Hazard Classification) Notice.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: NZ-en

KARTA CHARAKTERYSTYKI

iT.33 laundry booster pro

SEKCJA 1: IDENTYFIKACJA SUBSTANCJI/MIESZANINY I IDENTYFIKACJA PRZEDSIĘBIORSTWA

1.1. Identyfikator produktu

Nazwa handlowa:

iT.33 laundry booster pro

Niepowtarzalny identyfikator postaci czynnej (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Istotne zidentyfikowane zastosowania substancji lub mieszaniny oraz zastosowania odradzane

Istotne zidentyfikowane zastosowania substancji lub mieszaniny:

Detergenty i środki czyszczące (w tym na bazie rozpuszczalników)

Produkt przeznaczony wyłącznie do użytku zawodowego.

Zastosowania odradzane :

Nie są znane.

1.3. Dane dotyczące dostawcy karty charakterystyki

Dostawca:

Hygieniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

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Aktualizacja:

14.08.2025

Wersja karty charakterystyki:

2.0

Data poprzedniego wydania:

28.07.2025 (1.0)

1.4. Numer telefonu alarmowego

Ośrodki zatruc.

Gdańsk: Pomorskie Centrum Toksykologii. Tel: (48) 58 682 04 04

Kraków: Centrum Informacji Toksykologicznej. Tel: (48) 12 411 99 99

Łódź: Krajowe Centrum Informacji o Truciznach. Tel: (48) 42 63 14 724

Warszawa: Warszawskie Centrum Informacji i Kontroli Zatruc. Tel: (48) 22 619 66 54

Wrocław: Dolnośląskie Centrum Informacji Toksykologicznej i Toksykologicznej. Tel: (48) 71 306 44 19

*Europejski numer alarmowy : 112

Patrz sekcja 4 o środkach pierwszej pomocy.

SEKCJA 2: IDENTYFIKACJA ZAGROŻEŃ

Klasyfikacja wg Rozporządzenia (WE) 1272/2008 (CLP).

2.1. Klasyfikacja substancji lub mieszaniny

Met. Corr. 1; H290, Może powodować korozję metali.

Skin Corr. 1A; H314, Powoduje poważne oparzenia skóry oraz uszkodzenia oczu.

Eye Dam. 1; H318, Powoduje poważne uszkodzenie oczu.

2.2. Elementy oznakowania

Piktogram(y) zagrożeń:



Hasło ostrzegawcze:

Niebezpieczeństwo

Zwrot wskazujący rodzaj zagrożenia:

Może powodować korozję metali. (H290)

Powoduje poważne oparzenia skóry oraz uszkodzenia oczu. (H314)

Zwroty wskazujące środki ostrożności:

▼ Ogólne:

Nie dotyczy.

Zapobieganie:

Nie wdychać par/mgły. (P260)

Stosować ochronę oczu/rękawice ochronne/odzież ochronną. (P280)

▼ Reagowanie:

W PRZYPADKU KONTAKTU ZE SKÓRĄ (lub z włosami): Natychmiast zdjąć całą zanieczyszczoną odzież. Spłukać skórę pod strumieniem wody lub prysznicem. (P303+P361+P353)

W PRZYPADKU DOSTANIA SIĘ DO OCZU: Ostrożnie płukać wodą przez kilka minut. Wyjąć soczewki kontaktowe, jeżeli są i można je łatwo usunąć. Nadal płukać. (P305+P351+P338)

Natychmiast skontaktować się z OŚRODKIEM ZATRUĆ/lekarzem. (P310)

Przechowywanie:

Przechowywać w pojemniku o odpornej powłoce wewnętrznej. (P406)

Usuwanie:

Zawartość/pojemnik usuwać zgodnie z przepisami lokalnymi (P501)

Zawiera następujące substancje odpowiedzialne za ryzyko zagrożenia zdrowia:

wodorotlenek potasu; wodorotlenek potasu

wodorotlenek sodu

Informacje uzupełniające na etykiecie:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Inne zagrożenia

Inne ostrzeżenia:

Mieszanina/produkt ten nie zawiera żadnej substancji spełniającej kryteria klasyfikacji jako PBT lub vPvB.

Ten produkt nie zawiera żadnych substancji uważanych za substancje zaburzające gospodarkę hormonalną zgodnie z kryteriami określonymi w Rozporządzeniu Delegowanym Komisji (UE) 2017/2100 lub Rozporządzeniu Komisji (UE) 2023/707.

SEKCJA 3: SKŁAD/INFORMACJA O SKŁADNIKACH

3.1. Substancje

Nie dotyczy. Produkt jest mieszaniną.

3.2. ▼ Mieszaniny

Produktu/składnik	Identyfikatory	% w/w	Klasyfikacja	Uwagi
wodorotlenek potasu; wodorotlenek potasu	Nr. CAS: 1310-58-3 Nr. WE: 215-181-3 REACH: Nr. indeksowy: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
wodorotlenek sodu	Nr. CAS: 1310-73-2 Nr. WE: 215-185-5 REACH: 01-2119457892-27-XXXX Nr. indeksowy: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Pełne sformułowanie zwrotów określających zagrożenia znajduje się w sekcji 16. Limity dopuszczalnych wartości zarażenia zawodowego, jeśli są dostępne, wymienione są w sekcji 8.

Inne informacje

-

SEKCJA 4: ŚRODKI PIERWSZEJ POMOCY

4.1. Opis środków pierwszej pomocy

Informacje ogólne:

W razie wypadku lub złego samopoczucia skontaktować się z lekarzem lub pogotowiem – zabrać ze sobą etykietę lub niniejszą kartę charakterystyki. Lekarz może się zwrócić do Instytutu Toksykologii w szpitalu.

Jeśli objawy nie ustają, lub jeśli są wątpliwości co do stanu osoby poszkodowanej, trzeba się zwrócić po pomoc lekarską. Nigdy nie podawaj wody ani podobnych płynów osobie nieprzytomnej.

Wdychanie:

W razie problemów z oddychaniem lub podrażnienia dróg oddechowych: Zapewnić poszkodowanemu dostęp do świeżego powietrza i nie pozostawiać go bez nadzoru.

Kontakt ze skórą:

Narażony obszar spłukiwać wodą przez długi czas – co najmniej 30 minut. Może być konieczne płukanie przez kilka godzin. Używać wody o komfortowej temperaturze (20-30 °C). Skontaktować się z Centrum Informacji ds. zatruć/lekarzem/szpitałem w celu uzyskania dalszych porad dotyczących obserwacji i leczenia.

Natychmiast zdjąć zanieczyszczoną odzież. Niezwłocznie spłukać skażone miejsce obficie wodą. Można zastosować środki do mycia skóry. NIE używać rozpuszczalników ani rozcieńczalników.

W przypadku wystąpienia podrażnienia skóry: Zasięgnąć porady/zgłosić się pod opiekę lekarza.

Kontakt z oczami:

W PRZYPADKU DOSTANIA SIĘ DO OCZU: Natychmiast przemyć oczy dużą ilością wody lub płynem do przemywania oczu. Trzymać oczy szeroko otwarte. Płukać aż minie podrażnienie, przynajmniej przez 30 minut. Usunąć ewentualne szkła kontaktowe. Należy natychmiast zawezwać lekarza. Kontynuować płukanie podczas transportu.

Połknięcia:

W przypadku połknięcia należy się natychmiast skontaktować z lekarzem. Jeśli poszkodowana osoba jest przytomna, należy jej dać wodę do picia. NIE należy wywoływać wymiotów, jeśli lekarz tego nie zalecił. Ułożyć głowę nisko, tak, aby wymioty nie wróciły do ust i gardła. Unikać szoku trzymając poszkodowaną osobę w ciepłe i spokoju. W przypadku braku oddechu, należy zastosować sztuczne oddychanie. W przypadku braku przytomności, należy ułożyć poszkodowaną osobę w pozycji bocznej ustalonej. Wezwać pogotowie.

Oparzenie:

Nie dotyczy.

4.2. Najważniejsze ostre i opóźnione objawy oraz skutki narażenia

Produkt zawiera substancje żrące. Wdychanie oparów może działać silnie drażniąco. Może uszkodzić płuca i spowodować podrażnienie i ból w narządach układu oddechowego oraz kaszel. Substancje żrące mogą być przyczyną utraty wzroku lub trwałego uszkodzenia wzroku. Działa żrąco na skórę. Może powodować rany. Działa szkodliwie po połknięciu, możliwe ryzyko powstania nieodwracalnych zmian w stanie zdrowia.

4.3. Wskazania dotyczące wszelkiej natychmiastowej pomocy lekarskiej i szczególnego postępowania z poszkodowanym

W PRZYPADKU narażenia lub styczności:

Natychmiast zasięgnąć porady/zgłosić się pod opiekę lekarza.

Informacja dla lekarza

Przekazać kartę charakterystyki lub etykietę produktu.

SEKCJA 5: POSTĘPOWANIE W PRZYPADKU POŻARU

5.1. Środki gaśnicze

Nie dotyczy.

5.2. Szczególne zagrożenia związane z substancją lub mieszaniną

W przypadku pożaru powstanie gęsty dym. Wystawienie na działanie produktów rozkładu może być szkodliwe dla zdrowia. Zamknięte pojemniki, które były wystawione na działanie ognia, należy ochłodzić wodą. Nie należy dopuścić, aby woda użyta do gaszenia dostała się do ścieków ani cieków wodnych.

Wystawienie mieszaniny na działanie wysokich temperatur, np. w przypadku pożaru, może spowodować powstawanie niebezpiecznych produktów rozkładu. Są to:

Niektóre tlenki metali

5.3. Informacje dla straży pożarnej

Normalne ubranie strażackie i pełne wyposażenie dla ochrony dróg oddechowych. W przypadku bezpośredniego kontaktu z substancją chemiczną dowódca zastępu może się skontaktować z centrum ratunkowym dla wypadków chemicznych aby otrzymać dalsze porady.

SEKCJA 6: POSTĘPOWANIE W PRZYPADKU NIEZAMIERZONEGO UWOLNIENIA DO ŚRODOWISKA

6.1. Indywidualne środki ostrożności, wyposażenie ochronne i procedury w sytuacjach awaryjnych

Unikać bezpośredniego kontaktu z rozlanym materiałem.

Zapewnić odpowiednią wentylację, szczególnie w przestrzeniach zamkniętych.

Zanieczyszczone powierzchnie mogą być śliskie.

6.2. Środki ostrożności w zakresie ochrony środowiska

Zapobiegać uwalnianiu większych ilości do kanalizacji, wód gruntowych i powierzchniowych.

Nie dopuszczać osób postronnych do miejsca wycieku.

6.3. Metody i materiały zapobiegające rozprzestrzenianiu się skażenia i służące do usuwania skażenia

Ograniczyć i zebrać wyciek za pomocą niepalnego, absorbującego materiału, np. piasku, ziemi, wermikulitu lub ziemi okrzemkowej i umieścić w pojemniku do utylizacji zgodnie z lokalnymi przepisami.

Jeśli to tylko możliwe, czyszczenie należy przeprowadzać za pomocą środków czyszczących. Należy unikać rozpuszczalników.

6.4. Odniesienia do innych sekcji

Postępowanie z odpadami opisane jest w sekcji 13.

Środki ostrożności omówione są w sekcji 8.

SEKCJA 7: POSTĘPOWANIE Z SUBSTANCJAMI I MIESZANINAMI ORAZ ICH MAGAZYNOWANIE

7.1. Środki ostrożności dotyczące bezpiecznego postępowania

Unikać bezpośredniego kontaktu z produktem.

Palenie, jedzenie i picie nie są dozwolone podczas używania produktu.

Osobiste środki bezpieczeństwa omawiane są w sekcji „Kontrola narażenia/środki ochrony indywidualnej”.

7.2. Warunki bezpiecznego magazynowania, w tym informacje dotyczące wszelkich wzajemnych niezgodności

Otwarte pojemniki muszą być ponownie uszczelnione i przechowywane pionowo dla uniknięcia wycieków.

Przechowywać w pojemniku o odpornej powłoce wewnętrznej.

Zgodności z opakowaniem:

Przechowywać wyłącznie w oryginalnym opakowaniu.

Warunki przechowywania:

W miejscu suchym, chłodnym i z dobrą cyrkulacją powietrza

Materiały niezgodne:

Silne kwasy, silne zasady, silne utleniacze i silne reduktory.

7.3. Szczególne zastosowanie(-a) końcowe

Ten produkt powinien być używany zawsze zgodnie z opisem w sekcji 1.2.

SEKCJA 8: KONTROLA NARAŻENIA/ŚRODKI OCHRONY INDYWIDUALNEJ

8.1. Parametry dotyczące kontroli

wodorotlenek potasu; wodorotlenek potasu

Najwyższe dopuszczalne stężenie chwilowe (15 minut) (NDSch) (mg/m³): 1

Najwyższe dopuszczalne stężenie (8-godzinne) (NDS) (mg/m³): 0,5

wodorotlenek sodu

Najwyższe dopuszczalne stężenie chwilowe (15 minut) (NDSch) (mg/m³): 1

Najwyższe dopuszczalne stężenie (8-godzinne) (NDS) (mg/m³): 0,5

Rozporządzenia Ministra Rodziny, Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy (Dz.U. 2018 poz. 1286)

DNEL

wodorotlenek potasu; wodorotlenek potasu

Czas:	Droga narażenia:	DNEL:
Długoterminowo (działanie miejscowe-cała populacja)	Wziewanie	1 mg/m ³
Długoterminowo (działanie miejscowe-Pracownicy)	Wziewanie	1 mg/m ³

wodorotlenek sodu

Czas:	Droga narażenia:	DNEL:
Długoterminowo (działanie ogólnoustrojowe-cała populacja)	Naskórnice	2 %
Długoterminowo (działanie ogólnoustrojowe-Pracownicy)	Naskórnice	<2 %
Długoterminowo (działanie miejscowe-cała populacja)	Wziewnie	1 mg/m ³
Długoterminowo (działanie miejscowe-Pracownicy)	Wziewnie	1 mg/m ³

PNEC

wodorotlenek sodu

Droga narażenia:	Czas ekspozycji:	PNEC:
Oczyszczalnia ścieków		51 mg/L
Osad w wodzie słodkiej		23 mg/kg TG
Przerywane uwalnianie		3.1 mg/L
Przerywane uwalnianie (woda morska)		2.3 mg/kg TG
Woda morska		0.64 mg/L
Woda słodka		6.4 mg/L
Ziemia		0.853 mg/kg TG

8.2. Kontrola narażenia

Należy regularnie kontrolować przestrzeganie podanych wartości granicznych.

Ogólne zasady postępowania:

Palenie, jedzenie i picie nie są dozwolone podczas używania produktu.

Scenariusze narażenia:

Dla tego produktu nie ma wdrożonych scenariuszy narażenia.

Limity ekspozycji:

Zawodowi użytkownicy objęci są regułami ustawodawstwa o bezpieczeństwie i higienie pracy, dotyczącego maksymalnych stężeń przy ekspozycji. Wartości graniczne - patrz powyżej.

Środki techniczne:

Tworzenie się pary musi być utrzymywane na minimalnych i poniżej aktualnych wartościach granicznych (patrz powyżej). Zaleca się zainstalowanie lokalnego systemu wyciągowego, jeśli normalny przepływ powietrza w pomieszczeniu roboczym jest niewystarczający. Upewnij się, że stacje do przemywania oczu i prysznic są wyraźnie oznaczone.

Zapewnić łatwy dostęp do oczomyjek i natrysków bezpieczeństwa.

Stosuj standardowe środki ostrożności podczas użytkowania produktu. Unikaj wdychania oparów.

Zaradcze środki higieniczne:

W każdej przerwie w pracy z produktem oraz po zakończeniu dnia pracy należy umyć odkryte części ciała. Zwracać szczególną uwagę na dłonie, przedramiona i twarz.

Środki ograniczające narażenie środowiska:

Należy zapewnić, aby w czasie pracy z produktem materiały tamujące znajdowały się w bezpośrednim zasięgu.

Jeśli to możliwe, należy używać wanieki ściekowej.

Indywidualne środki ochrony takie jak indywidualne wyposażenie ochronne

Ogólnie:

Używać wyłącznie sprzętu ochronnego z oznakowaniem CE.

Ochronę dróg oddechowych:

Typ	Klasa	Kolor	Normy	
Środki ochrony dróg oddechowych nie są wymagane w przypadku odpowiedniej wentylacji				

Ochrona skór:

Polecamy	Typu/Kategorii	Normy	
Należy używać specjalnej odzieży roboczej	-	-	

Ochrona rąk:

Warunki pracy	Materiał	Grubość rękawicy (mm)	Czas wytrzymałości (min.)	Normy	
W przypadku długotrwałego narażenia lub wysokiego stężenia	Nitryl	0.4	> 480	EN374-2, EN16523-1, EN388	
W przypadku krótkotrwałego narażenia lub niewielkiego stężenia	Nitryl	1,5	> 30	EN374-2, EN16523-1, EN388	

Ochrona oczu:

Typ	Normy	
Noś okulary ochronne z osłonami bocznymi.	EN166	

SEKCJA 9: WŁAŚCIWOŚCI FIZYCZNE I CHEMICZNE

9.1. Informacje na temat podstawowych właściwości fizycznych i chemicznych

Stan skupienia:

Ciekły

Kolor:

Lekko żółty

▼ **Zapach / Próg zapachu (ppm):**

Łagodny

pH:

13.5

Gęstość (g/cm³):

1,29 (20 °C)

Lepkość kinematyczna:

Brak dostępnych danych.

Charakterystyka cząsteczek:

Nie dotyczy cieczy.

Zmiana stanu skupienia i opary

Temperatura topnienia/krzepnięcia (°C):

Brak dostępnych danych.

Temperaturę/zakres mięknięcia (°C):

Nie dotyczy cieczy.

Temperatura wrzenia (°C):

100

Prężność pary:

Brak dostępnych danych.

Względna gęstość pary :

Brak dostępnych danych.

Temperatura rozkładu (°C):

Brak dostępnych danych.

Dane dotyczące niebezpieczeństwa pożaru i wybuchu

Temperatura zapłonu (°C):

Brak dostępnych danych.

Palność materiałów (°C):

Brak dostępnych danych.

Temperatura samozapłonu (°C):

Brak dostępnych danych.

Granice wybuchowości (obj. %):

Brak dostępnych danych.

Rozpuszczalność

Rozpuszczalność w wodzie:

Całkowicie rozpuszczalny

n-oktanol/woda współczynnik (LogKow):

Brak dostępnych danych.

Rozpuszczalność w tłuszczu (g/L):

Brak dostępnych danych.

9.2. Inne informacje

Inne parametry fizyczne i chemiczne:

Brak dostępnych danych.

Właściwości utleniające:

Brak dostępnych danych.

SEKcja 10: STABILNOŚĆ I REAKTYWNOŚĆ

10.1. Reaktywność

Brak dostępnych danych.

10.2. Stabilność chemiczna

Przy prawidłowym użytkowaniu i przechowywaniu, zgodnie z sekcją 7 karty, produkt jest stabilny.

10.3. Możliwość występowania niebezpiecznych reakcji

Nie są znane.

10.4. Warunki, których należy unikać

Nie są znane.

10.5. Materiały niezgodne

Silne kwasy, silne zasady, silne utleniacze i silne reduktory.

10.6. Niebezpieczne produkty rozkładu

Rozkład termiczny może powodować wydzielanie się żrących oparów.

SEKCJA 11: INFORMACJE TOKSYKOLOGICZNE

11.1. Informacje na temat klas zagrożenia zdefiniowanych w rozporządzeniu (WE) nr 1272/2008

Toksyczność ostra

Produktu/składnik	wodorotlenek potasu; wodorotlenek potasu
Rodzaj:	Szczur, samcach
Droga narażenia:	Doustnie
Test:	LD50
Wynik:	333 - 388 mg/kg

Produktu/składnik	wodorotlenek sodu
Wynik:	45.4 mg/L

Produktu/składnik	wodorotlenek sodu
Rodzaj:	Królik
Test:	LD lo
Wynik:	500 mg/kg

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie żrące/drażniące na skórę

Produktu/składnik	iT.33 laundry booster pro
Wynik:	Zaobserwowano działania szkodliwe (Wysoce drażniący)

Produktu/składnik	wodorotlenek potasu; wodorotlenek potasu
Wynik:	Zaobserwowano działania szkodliwe (Żrący)

Produktu/składnik	wodorotlenek sodu
Wynik:	Zaobserwowano działania szkodliwe (Drażniący)

Powoduje poważne oparzenia skóry oraz uszkodzenia oczu.

Poważne uszkodzenie oczu/działanie drażniące na oczy

Produktu/składnik	iT.33 laundry booster pro
Wynik:	Zaobserwowano działania szkodliwe (Powoduje poważne uszkodzenie oczu)

Produktu/składnik	wodorotlenek potasu; wodorotlenek potasu
Wynik:	Zaobserwowano działania szkodliwe (Wysoce żrący)

Produktu/składnik	wodorotlenek sodu
Metoda badania:	OECD 405
Rodzaj:	Królik
Wynik:	Zaobserwowano działania szkodliwe (Żrący)

Powoduje poważne uszkodzenie oczu.

Działanie uczulające na drogi oddechowe

Produktu/składnik	wodorotlenek potasu; wodorotlenek potasu
Wynik:	Nie zaobserwowano działań szkodliwych (nie uczuła)

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie uczulające na skórę

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie mutagenne na komórki rozrodcze

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie rakotwórcze

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Szkodliwe działanie na rozrodczość

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie toksyczne na narządy docelowe – narażenie jednorazowe

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Działanie toksyczne na narządy docelowe – narażenie powtarzane

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

Zagrożenie spowodowane aspiracją

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

11.2. Informacje o innych zagrożeniach

Długotrwałe działanie

Produkt zawiera substancje żrące. Wdychanie oparów może działać silnie drażniąco. Może uszkodzić płuca i spowodować podrażnienie i ból w narządach układu oddechowego oraz kaszel. Substancje żrące mogą być przyczyną utraty wzroku lub trwałego uszkodzenia wzroku. Działa żrąco na skórę. Może powodować rany. Działa szkodliwie po połknięciu, możliwe ryzyko powstania nieodwracalnych zmian w stanie zdrowia.

Właściwości zaburzające funkcjonowanie układu hormonalnego

Mieszanina/produkt nie zawiera substancji uznawanych za zaburzające funkcjonowanie układu hormonalnego w odniesieniu do zdrowia.

Inne informacje

Nie są znane.

SEKCJA 12: INFORMACJE EKOLOGICZNE

12.1. Toksyczność

Produktu/składnik	iT.33 laundry booster pro
Rodzaj:	Andere waterorganismen, Leuciscus idus
Element środowiska :	Woda
Czas:	96 godzin
Test:	LC50
Wynik:	>100 mg/L

Produktu/składnik	wodorotlenek sodu
Rodzaj:	Bakteria, Pseudomonas putida
Test:	CE0
Wynik:	>100 mg/L

Produktu/składnik	wodorotlenek sodu
Rodzaj:	Rozwielitka, Ceriodaphnia dubia
Czas:	48 godzin
Wynik:	40.4 mg/L

Produktu/składnik	wodorotlenek sodu
Metoda badania:	OECD 203

Zgodność z załącznikiem II do rozporządzenia (WE) nr 1907/2006 (REACH), zmienionym rozporządzeniem (UE) nr 2020/878

Rodzaj: Ryba, *Oncorhynchus mykiss*
Czas: 96 godzin
Test: LC50
Wynik: 45.4 mg/L

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

12.2. Trwałość i zdolność do rozkładu

W oparciu o dostępne dane, kryteria klasyfikacji nie są spełnione.

12.3. Zdolność do bioakumulacji

Produkt/składnik: wodorotlenek sodu
Wniosek: Bioakumulacja nie jest spodziewana

12.4. Mobilność w glebie

Brak dostępnych danych.

12.5. Wyniki oceny właściwości PBT i vPvB

Mieszanina/produkt ten nie zawiera żadnej substancji spełniającej kryteria klasyfikacji jako PBT lub vPvB.

12.6. Właściwości zaburzające funkcjonowanie układu hormonalnego

Mieszanina/produkt nie zawiera substancji uznawanych za zaburzające funkcjonowanie układu endokrynnego w odniesieniu do środowiska.

12.7. Inne szkodliwe skutki działania

Nie są znane.

SEKCJA 13: POSTĘPOWANIE Z ODPADAMI

13.1. Metody unieszkodliwiania odpadów

Pozbywać się zgodnie z miejscowymi i narodowymi dyrektywami dotyczącymi gospodarki odpadów. (*)

HP 8 - Żrąc

Zawartość/pojemnik usuwać do autoryzowanego zakładu utylizacji odpadów.

Rozporządzenie Komisji (UE) NR 1357/2014 z dnia 18 grudnia 2014 r. zastępujące załącznik III do dyrektywy Parlamentu Europejskiego i Rady 2008/98/WE w sprawie odpadów oraz uchylającej niektóre dyrektywy. Ustawa z dnia 14.12.2012r. o odpadach, (Dz.U.2013 poz.21). Rozporządzenie Ministra Środowiska z dnia 9.12.2014r. w sprawie katalogu odpadów (Dz.U. 2014 poz. 1923).

Europejski kod odpadu (EWC):

20 01 29* Detergenty zawierające substancje niebezpieczne

Zanieczyszczone opakowanie

Opakowania zawierające pozostałości produktu należy usuwać w taki sam sposób jak produkt.

SEKCJA 14: INFORMACJE DOTYCZĄCE TRANSPORTU

	14.1 UN / ID	14.2 Prawidłowa nazwa przewozowa UN	14.3 Klasa(-y) zagrożenia w transporcie	14.4 PG*	14.5. Env**	Inne informacje
ADR	UN1719	MATERIAŁ ŻRĄCY CIEKŁY ZASADOWY I.N.O. (wodorotlenek potasu; wodorotlenek potasu, wodorotlenek sodu)	Klasa: 8 Nalep-ki: 8 Kod klasyfikacyjny: C5 	II	Nie	Ilości ograniczone: 1 L Kategoria transportowa: (E) Patrz poniżej

	14.1 UN / ID	14.2 Prawidłowa nazwa przewożowa UN	14.3 Klasa(-y) zagrożenia w transporcie	14.4 PG*	14.5. Env**	Inne informacje :
						dodatkowe informacje.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasa: 8 Nalep-ki: 8 Kod klasyfikacyjny: C5 	II	Nie	Ilości ograniczon e: 1 L EmS: F-A S- B Patrz poniżej dodatkowe informacje.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klasa: 8 Nalep-ki: 8 Kod klasyfikacyjny: C5 	II	Nie	Patrz poniżej dodatkowe informacje.

* Grupa pakowania

** Zagrożenia dla środowiska

Inne

Produkt podlega przepisom dotyczącym przewozu towarów niebezpiecznych.

ADR / Informacje na temat szczególnych przepisów, wymagań lub ostrzeżeń dotyczących transportu zamieszczono w Tabeli A, punkt 3.2.1. Instrukcje pisemne dotyczące sposobów ograniczenia szkód powstałych w wyniku zdarzeń lub wypadków mających miejsce w trakcie transportu zamieszczono w punkcie 5.4.3.

IMDG / Informacje na temat szczególnych przepisów, wymagań lub ostrzeżeń dotyczących transportu zamieszczono w punkcie 3.2.1.

IATA / Informacje na temat szczególnych przepisów, wymagań lub ostrzeżeń dotyczących transportu zamieszczono w punkcie 4.2.

14.6. Szczególne środki ostrożności dla użytkowników

Nie dotyczy.

14.7. Transport morski luzem zgodnie z instrumentami IMO

Brak dostępnych danych.

SEKCJA 15: INFORMACJE DOTYCZĄCE PRZEPISÓW PRAWNYCH

15.1. Przepisy prawne dotyczące bezpieczeństwa, zdrowia i ochrony środowiska specyficzne dla substancji lub mieszaniny

Ograniczenia użycia:

Produkt przeznaczony wyłącznie do użytku zawodowego.

Wyrób nie może być używany w celach zawodowych przez osoby w wieku poniżej 18 lat.

Wymagania szczególnego wykształcenia:

Nie ma specjalnych wymagań.

SEVESO - Kategorie niebezpiecznych substancji / Wskazane substancje niebezpieczne:

Nie dotyczy.

Inne:

Nie dotyczy.

Źródła:

Dyrektywa Rady 94/33/WE z dnia 22 czerwca 1994 r. w sprawie ochrony pracy osób młodych.
Rozporządzenie (WE) nr 648/2004 Parlamentu Europejskiego i Rady z dnia 31 marca 2004 r. w sprawie detergentów.
Rozporządzenie Komisji (UE) NR 1357/2014 z dnia 18 grudnia 2014 r. zastępujące załącznik III do dyrektywy Parlamentu Europejskiego i Rady 2008/98/WE w sprawie odpadów oraz uchylającej niektóre dyrektywy. Ustawa z dnia 14.12.2012r. o odpadach, (Dz.U.2013 poz.21). Rozporządzenie Ministra Środowiska z dnia 9.12.2014r. w sprawie katalogu odpadów (Dz.U. 2014 poz. 1923).
Rozporządzenie Parlamentu Europejskiego i Rady (WE) nr 1272/2008 z dnia 16 grudnia 2008 r. w sprawie klasyfikacji, oznakowania i pakowania substancji i mieszanin (CLP).
Rozporządzenie Ministra Pracy i Polityki Społecznej z dnia 26.09.1997r. w sprawie ogólnych przepisów bezpieczeństwa i higieny pracy. (Dz.U. 2003 nr 169 poz. 1650) z późniejszymi zmianami.
Rozporządzenie Ministra Zdrowia z dnia 30.12.2004 roku w sprawie bezpieczeństwa i higieny pracy związanej z występowaniem w miejscu pracy czynników chemicznych. (Dz. U. z 2005r. Nr 11, poz. 86) z późniejszymi zmianami.
ROZPORZĄDZENIE PARLAMENTU EUROPEJSKIEGO I RADY (UE) 2016/425 z dnia 9 marca 2016 r. w sprawie środków ochrony indywidualnej oraz uchylenia dyrektywy Rady 89/686/EWG.
Ustawa o substancjach i ich mieszaninach z dnia 25.02.2011r. (Dz.U. 2011 nr 63 poz. 322) z późniejszymi zmianami.
Rozporządzenie (WE) nr 1907/2006 PeiR z dnia 18.12.2006r. w sprawie rejestracji, oceny, udzielania zezwoleń i stosowanych ograniczeń w zakresie chemikaliów (REACH), utworzenia Europejskiej Agencji Chemikaliów, zmieniające dyrektywę 1999/45/WE oraz uchylające rozporządzenie Rady (EWG) nr 793/93 i rozporządzenie Komisji (WE) nr 1488/94, jak również dyrektywę Rady 76/769/EWG i dyrektywy Komisji 91/155/EWG, 93/67/EWG, 93/105/WE i 2000/21/WE.

15.2. Ocena bezpieczeństwa chemicznego

Nie

SEKCJA 16: INNE INFORMACJE

Pełne sformułowanie zwrotów ryzyka wymienionych w sekcji 3

H290, Może powodować korozję metali.
H302, Działa szkodliwie po połknięciu.
H314, Powoduje poważne oparzenia skóry oraz uszkodzenia oczu.
H315, Działa drażniąco na skórę.
H318, Powoduje poważne uszkodzenie oczu.
H319, Działa drażniąco na oczy.

Skróty i akronimy

ADN = Europejskie Warunki dotyczące Międzynarodowego Przewozu Niebezpiecznych Towarów Wodnymi Drogami Śródlądowymi
ADR = Europejskie Porozumienie dotyczące Międzynarodowych Przewozów Niebezpiecznych Towarów Transportem Drogowym
ATE = Szacunkowa toksyczność ostra
BCF = Współczynnik biokoncentracji
CAS = Chemical Abstract Service (Serwis Wypisów Chemicznych)
CE = Zgodność europejska
CLP = Rozporządzenie dotyczące klasyfikacji, oznakowania i pakowania (Rozporządzenie (WE) nr 1272/2008)
CSA = Ocena bezpieczeństwa chemicznego
CSR = Raport bezpieczeństwa chemicznego
DNEL = Pochodny Poziom Niepowodujący Zmian
EINECS = Europejski Spis Istniejących Substancji Chemicznych Znajdujących się na Rynku
ES = Scenariusz narażenia
EUH statement = CLP Zwrot wskazujący rodzaj zagrożenia
EuPCS = Europejski system klasyfikacji produktów

EWC = Europejski Katalog Odpadów
GHS = Globalnie Zharmonizowany System Klasyfikacji i Oznakowania Chemikaliów
GWP = Współczynnik globalnego ocieplenia
IATA = Międzynarodowe Zrzeszenie Przewoźników Powietrznych
IBC = Intermediate Bulk Container
IMDG = Międzynarodowy Morski Kod Towarów Niebezpiecznych
LogPow = logarytm współczynnika podziału oktanolu/wody
MARPOL = Międzynarodowa Konwencja Zapobiegania Zanieczyszczeniom ze Statków, 1973 modyfikowana Protokołem z roku 1978 (Marpol = zanieczyszczenia morskie)
NDS = średniej ważonej w czasie
OECD = Organizacja Współpracy Ekonomicznej i Rozwoju
PBT = Trwały, wykazujący zdolność do bioakumulacji i toksyczny
PNEC = Przewidywane Stężenie Niepowodujące Zmian w Środowisku
RID = Regulamin dla międzynarodowego przewozu kolejami towarów niebezpiecznych
RRN = Numer rejestracyjny REACH
SCL = Specyficzne stężenie.
SVHC = Substancja wzbudzające poważne obawy
STOT-RE = Toksyczność docelowa specyficznego narządu - powtarzalne narażenie
STOT-SE = Toksyczność docelowa specyficznego narządu - jednorazowe narażenie
UN = Organizacja Narodów Zjednoczonych (ONZ)
UVCB = Oznacza substancje o nieznanym lub zmiennym składzie, złożone produkty reakcji lub materiały biologiczne.
VOC = Lotny związek organiczny
vPvB = Bardzo trwałe i wykazujące bardzo dużą zdolność do bioakumulacji

Inne

Klasyfikacja mieszaniny pod względem zagrożeń dla zdrowia jest zgodna z metodami obliczeniowymi podanymi w rozporządzeniu (EC) Nr 1272/2008 (CLP).

Karta charakterystyki została zatwierdzona przez

Quality & Compliance

Inne

Zmiany w stosunku do ostatniej aktualizacji (pierwsza cyfra w wersji karty SDS, sekcji 1) tej karty charakterystyki są oznakowane trójkątami.
Informacje zawarte w niniejszej karcie charakterystyki odnoszą się tylko do produktu wymienionego w sekcji 1 i mogą nie być aktualne w odniesieniu do użycia razem z innymi produktami.
Zaleca się dostarczenie niniejszej karty charakterystyki faktycznemu użytkownikowi produktu. Wymienione informacje nie mogą być używane jako specyfikacja produktu.
Kraj-język: PL-pl

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for QATAR according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: QA-en

FIȘĂ CU DATE DE SECURITATE

iT.33 laundry booster pro

SECȚIUNEA 1: IDENTIFICAREA SUBSTANȚEI/AMESTECULUI ȘI A SOCIETĂȚII/ÎNȚREPRINDERII

1.1. Element de identificare a produsului

Nume comercial:

iT.33 laundry booster pro

Identificator de formulă unic (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Utilizări relevante identificate ale substanței sau ale amestecului și utilizări contraindicate

Utilizări de identificare relevante ale substanței sau amestecurilor:

Detergenți și agenți de curățare (inclusiv cei pe bază de solvenți)

Utilizare limitată numai în scopuri profesionale.

Utilizați împotriva:

Nimeni familiar.

1.3. Detalii privind furnizorul fișei cu date de securitate

Companie și adresă:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

Revizuire:

14.08.2025

Versiune SDS:

2.0

Data emiterii anterioare:

28.07.2025 (1.0)

1.4. Număr de telefon care poate fi apelat în caz de urgență

BIROUL PT REGULAMENTUL SANITAR INTERNATIONAL SI INFORMARE TOXICOLOGICA: (+40) 21 599 2300

Vedeți secțiunea 4 - Măsuri de prim ajutor

SECȚIUNEA 2: IDENTIFICAREA PERICOLELOR

Clasificat conform Regulamentului (CE) nr. 1272/2008 (CLP).

2.1. Clasificarea substanței sau a amestecului

Met. Corr. 1; H290, Poate fi corosiv pentru metale.

Skin Corr. 1A; H314, Provoacă arsuri grave ale pielii și lezarea ochilor.

Eye Dam. 1; H318, Provoacă leziuni oculare grave.

2.2. Elemente pentru etichetă

Pictograma periculoasă:



Cuvânt de semnal:

Pericol

Declarație periculoasă:

Poate fi corosiv pentru metale. (H290)

Provoacă arsuri grave ale pielii și lezarea ochilor. (H314)

Fraze de precauție:

▼ General:

Nu este aplicabil.

Prevenire:

Nu inspirați vapori/ceață. (P260)

Purtați protecția ochilor/mănuși de protecție/echipament de protecție. (P280)

▼ Raspuns:

ÎN CAZ DE CONTACT CU PIELEA (sau cu părul): Scoateți imediat toată îmbrăcămintea contaminată. Clătiți pielea cu apă sau faceți duș. (P303+P361+P353)

ÎN CAZ DE CONTACT CU OCHII: Clătiți cu atenție cu apă timp de mai multe minute. Scoateți lentilele de contact, dacă este cazul și dacă acest lucru se poate face cu ușurință. Continuați să clătiți. (P305+P351+P338)

Sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ/un medic (P310)

Stocare:

A se depozita într-un recipient cu dublură interioară rezistentă la coroziune. (P406)

Aruncare:

Aruncați conținutul/recipientul în conformitate cu reglementările locale (P501)

Identitatea substanțelor ce sunt responsabile pentru majoritatea pericolelor de sănătate.:

hidroxid de potasiu; potasa caustică

hidroxid de sodiu; soda caustică (hidroxid de sodiu)

Etichetare adițională:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Alte pericole

Avertismente adiționale:

Acest amestec/produs nu conține nicio substanță care îndeplinește criteriile de clasificare ca PBT și/sau vPvB.

Acest produs nu conține substanțe considerate a fi perturbatoare endocrine în conformitate cu criteriile incluse în Regulamentul Delegat al Comisiei (UE) 2017/2100 sau Regulamentul Comisiei (UE) 2023/707.

SECȚIUNEA 3: COMPOZIȚIE/INFORMAȚII PRIVIND COMPONENTII

3.1. Substanțe

Nu este aplicabil. Acest produs este un amestec.

3.2. ▼ Amestecuri

Este conform cu Regulamentul (CE) nr. 1907/2006 (REACH), Anexa II, amendată prin Regulamentul (UE) nr. 2020/878

Produs/ingredient	Identificatori	% w/w	Clasificare	Notițe
hidroxid de potasiu; potasa caustica	Nr. CAS: 1310-58-3 Nr. CE: 215-181-3 REACH: Nr. de index: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hidroxid de sodiu; soda caustica (hidroxid de sodiu)	Nr. CAS: 1310-73-2 Nr. CE: 215-185-5 REACH: 01-2119457892-27-XXXX Nr. de index: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Vedeți textul complet al frazelor H în secțiunea 16. Limitele de expunere ocupaționale sunt listate în secțiunea 8, dacă sunt disponibile.

Alte informații

-

SECȚIUNEA 4: MĂSURI DE PRIM AJUTOR

4.1. Descrierea măsurilor de prim ajutor

Informații generale:

În cazul accidentului contactați imediat doctorul sau departamentul în cauză. Luați cu dvs. Eticheta sau dateșe de siguranță.

Contactați un doctor, dacă aveți dubii cu privire la condițiile persoanei rănite sau dacă simptomele continuă.

Niciodată nu oferiți unei persoane inconștiente apă sau produse similare.

Inhalare:

La dificultăți de respirație sau iritații ale tractului respirator: Scoateți persoana la aer curat și rămâneți cu ea.

Contact cu pielea:

Spălați zona expusă cu apă mult timp - cel puțin 30 de minute. Poate fi necesar să se spele câteva ore. Folosiți o temperatură confortabilă a apei (20-30 °C). Contactați centrul pentru informații toxicologice/un medic/spitalul pentru sfaturi suplimentare cu privire la monitorizare și tratament.

Îndepărtați hainele și pantofii contaminați imediat. Pielea care a intrat în contact cu materialul trebuie să fie spălată corespunzător cu apă și săpun. Puteți utiliza detergent pentru piele. NU folosiți solvenți sau diluanți.

În caz de iritare a pielii: consultați medicul.

Contactul cu ochii:

ÎN CAZ DE CONTACT CU OCHII: Clătiți ochii cu foarte multă apă și apă sărată (20-30 °C) pentru cel puțin 30 minute și continuați până ce se oprește iritația. Îndepărtați lentilele de contact. Asigurați-vă că vă clătiți pleoapele superioare și partea inferioară. Solicitați imediat asistență medicală și continuați clătirea în timpul transportului.

Înghițire:

În cazul înghițirii, contactați imediat doctorul. Dacă persoana este conștientă, oferiți-i apă. NU încercați să induceți vomitarea, decât dacă acest lucru vă este recomandat de medic. Țineți capul în jos astfel încât voma să nu pătrundă înapoi în gură și gât. Preveniți șocul prin păstrarea persoanei rănite calmă și caldă. Oferiți resuscitare gură la gură dacă se oprește respirația. Dacă nu este conștientă, rulați persoana rănită pe partea cealaltă cu genunchii îndoiți. Sunați ambulanța.

Arsuri:

Nu este aplicabil.

4.2. Cele mai importante simptome și efecte, atât acute, cât și întârziate

Efectele dăunării țesutului - Acest produs conține substanțe corozive. Dacă vaporii sau aerosolii sunt inhalați, acest lucru poate rezulta în daune asupra plămânilor, iritație sau arsuri ale organelor respiratorii precum și tusea. Substanțele corozive poate cauza daune ireversibile asupra ochilor și arsuri acide pe piele.

4.3. Indicații privind orice fel de asistență medicală imediată și tratamentele speciale necesare

ÎN CAZ DE expunere sau de posibilă expunere:
Consultați imediat medicul.

Informații pentru medici

Aduceți fișă cu date de securitate și eticheta materialului cu dvs.

SECȚIUNEA 5: MĂSURI DE COMBATERE A INCENDIILOR

5.1. Mijloace de stingere a incendiilor

Nu este aplicabil.

5.2. Pericole speciale cauzate de substanța sau de amestecul în cauză

Focul va rezulta într-un fum gros. Expunerea la produsele catabolice pot dăuna sănătății. Containerele închise ce sunt expuse la foc trebuie să fie răcite cu apă. Nu lăsați apa din extintoarele de foc să intre în containere și alți curenți de apă.

Dacă produsul este expus la temperaturi ridicate, precum focul, sunt produse substanțe catabolice periculoase. Acestea sunt

Unele metale oxidate

5.3. Recomandări destinate pompierilor

Purtați aparate de respirație independente și echipamente de protecție pentru a preveni contactul.

SECȚIUNEA 6: MĂSURI DE LUAT ÎN CAZ DE DISPERSIE ACCIDENTALĂ

6.1. Precauții personale, echipament de protecție și proceduri de urgență

Evitați contactul direct cu substanțele ce au curs.

Asigurați o ventilație adecvată, în special în spațiile închise.

Zonele contaminate pot fi alunecoase.

6.2. Precauții pentru mediul înconjurător

Evitați descărcarea în lacuri, ape curgătoare, canale colectoare, etc.

Țineți persoanele neautorizate departe de deversare.

6.3. Metode și material pentru izolarea incendiilor și pentru curățenie

Opriti și colectați scurgerile cu material necombustibil, absorbant, de ex. nisip, pământ, vermiculită sau pământ de diatomee, și puneți-le într-un recipient pentru eliminare în conformitate cu reglementările locale.

Curățarea trebuie să fie făcută cât mai departe posibil utilizând agenți de curățare. Nu utilizați solvenți.

6.4. Trimitere la alte secțiuni

Vedeți secțiunea 13 Considerații privind eliminarea - pentru manipularea deșeurilor.

Vedeți secțiunea 8 Controale ale expunerii/protecția personală măsuri de protecție.

SECȚIUNEA 7: MANIPULAREA ȘI DEPOZITAREA

7.1. Precauții pentru manipularea în condiții de securitate

Evitați contactul direct cu produsul.

Fumatul, consumul alimentelor și lichidelor, și stocarea tutunului, alimentelor și lichidelor nu este permisă în zonele de lucru.

Vedeți secțiunea Controale ale expunerii/protecția personală pentru informații privind măsuri de protecție personală.

7.2. Condiții de depozitare în condiții de securitate, inclusiv eventuale incompatibilități

Containerele care au fost deschise trebuie să fie eliberate cu atenție și menținute drepte pentru a preveni scurgerile. A se depozita într-un recipient cu dublură interioară rezistentă la coroziune.

Compatibilitățile privind ambalarea:

A se păstra numai în ambalajul original.

Condiții de depozitare:

Uscată, răcoroasă și bine ventilată

Materiale incompatibile:

Acizi puternici, baze puternice, agenți de oxidare puternici, și agenți de reducere puternici

7.3. Utilizare (utilizări) finală (finale) specifică (specifice)

Acest produs trebuie să fie utilizat doar pentru aplicarea descrisă în secțiunea 1.2.

SECȚIUNEA 8: CONTROALE ALE EXPUNERII/PROTECȚIA PERSONALĂ

8.1. Parametri de control

hidroxid de sodiu;soda caustica(hidroxid de sodiu)

Valoare limită maximă (8 ore) (mg/m³): 1

Valoare limită maximă, termen scurt (15 minute) (mg/m³): 3

HOTĂRÂRE Nr. 1218 din 6 septembrie 2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezenta agenților chimici.

DNEL

hidroxid de potasiu;potasa caustica

Durata:	Ruta expunerii:	DNEL:
Termen lung - efecte locale - lucrători	Inhalare	1 mg/m ³
Termen lung - efecte locale - populație generală	Inhalare	1 mg/m ³

hidroxid de sodiu;soda caustica(hidroxid de sodiu)

Durata:	Ruta expunerii:	DNEL:
Termen lung - efecte sistemice - lucrători	Epidermică	<2 %
Termen lung - efecte sistemice - populație generală	Epidermică	2 %
Termen lung - efecte locale - lucrători	Inhalare	1 mg/m ³
Termen lung - efecte locale - populație generală	Inhalare	1 mg/m ³

PNEC

hidroxid de sodiu;soda caustica(hidroxid de sodiu)

Ruta expunerii:	Durata expunerii:	PNEC:
Apă de mare		0.64 mg/L
Apă dulce		6.4 mg/L
Eliberare intermitentă		3.1 mg/L
Eliberare intermitentă (apă de mare)		2.3 mg/kg TG
Sedimente de apă dulce		23 mg/kg TG
Sol		0.853 mg/kg TG
Stație de epurare a apelor uzate		51 mg/L

8.2. Controale ale expunerii

Conformarea cu expunerea statică limitează valorile iar acestea trebuie să fie verificate regulat.

Recomandari generale:

Fumatul, consumul alimentelor și lichidelor, și stocarea tutunului, alimentelor și lichidelor nu este permisă în zonele de lucru.

Scenariile de expunere:

Nu există scenarii de expunere implementate pentru acest produs

Limite expunere:

Utilizatorii comerciali sunt acoperiți de regulile privind legislația muncii într-un mediu cu concentrare maximă pentru expunere. Vedeți igiena la locul de muncă și valorile permise.

Măsuri tehnice corespunzătoare:

Formarea vaporilor trebuie menținută la un nivel minim și sub valorile limitei curente (a se vedea mai sus). Se recomandă montarea unui sistem local de evacuare dacă fluxul de aer normal din camera de lucru nu este suficient. Asigurați-vă că dușurile de urgență pentru corp și pentru spălarea ochilor sunt marcate în mod clar. Asigurați-vă că stațiile de spălare a ochilor și dușurile de siguranță sunt situate la îndemână. Aplicați măsurile standard de precauție în timpul utilizării produsului. Evitați inhalarea vaporilor.

Măsuri de igiena:

Atunci când doriți să luați o pauză de la utilizarea acestui produs sau când ați terminat, toate zonele corpului expuse trebuie să fie spălate. Acordați o atenție deosebită mâinilor, antebrațelor și feței.

Măsuri pentru evitarea expunerii la mediu:

Mențineți materialele de îndiguire aproape de locul de muncă. Dacă este posibil colectați scurgerile în timpul lucrului.

Măsuri de protecție individuale, cum ar fi echipamente de protecție personale

General:

Utilizați doar echipamentele de protecție marcate CE

Echipament de respirație:

Tipul	Clasa	Culoare	Standardele	
Protecția respiratorie nu este necesară în cazul ventilației adecvate				

Protecția pielii:

Recomandat	Tip/Categoria	Standardele	
Echipamentul special de lucru trebuie utilizat	-	-	

Protecția mâinii:

Situație de lucru	Material	Grosimea minimă a stratului (mm)	Timpul de perforare (min.)	Standardele	
În cazul expunerii prelungite sau al concentrațiilor ridicate	Cauciuc nitrilic	0,4	> 480	EN374-2, EN16523-1, EN388	
În cazul expunerii pe termen scurt sau al concentrațiilor scăzute	Cauciuc nitrilic	1,5	> 30	EN374-2, EN16523-1, EN388	

Protecția ochilor:

Tipul	Standardele	
Purtați ochelari cu protecție laterală.	EN166	

SECȚIUNEA 9: PROPRIETĂȚILE FIZICE ȘI CHIMICE

9.1. Informații privind proprietățile fizice și chimice de bază

Forma:

Lichid

Culoare:

Galben pal

▼ *Parfum / Pragul de acceptare a mirosului (ppm):*

Potrivit

pH:

13.5

Densitate (g/cm³):

1,29 (20 °C)

Viscozitatea cinematică:

Nu există date disponibile.

Caracteristicile particulei:

Nu se aplică lichidelor.

Modificari fazice

Punctul de topire/punctul de înghețare (°C):

Nu există date disponibile.

Punctul / intervalul de înmuiere (°C):

Nu se aplică lichidelor.

Punct de fierbere (°C):

100

Presiune vaporica:

Nu există date disponibile.

Densitatea relativă a vaporilor:

Nu există date disponibile.

Temperatura de descompunere (°C):

Nu există date disponibile.

Date privind focul și pericolele de explozie

Temperatura de aprindere (°C):

Nu există date disponibile.

Inflamabilitatea (°C):

Nu există date disponibile.

Temperatura de autoaprindere (°C):

Nu există date disponibile.

Limite expunere (Vol%):

Nu există date disponibile.

Solubilitate

Solubilitate în apă:

Complet solubil

n-octanol/ coeficient apă (LogKow):

Nu există date disponibile.

Solubilitate în grasimi (g/L):

Nu există date disponibile.

9.2. Alte informații

Alți parametri fizici și chimici:

Nu există date disponibile.

Proprietăți oxidante:

Nu există date disponibile.

SECȚIUNEA 10: STABILITATE ȘI REACTIVITATE

10.1. Reactivitate

Nu există date disponibile.

10.2. Stabilitate chimică

Produsul este stabil în conformitate cu condițiile, notate în secțiunea 7 "Manipularea și depozitarea"

10.3. Posibilitatea de reacții periculoase

Nimeni familiar.

10.4. Condiții de evitat

Nimeni familiar.

10.5. Materiale incompatibile

Acizi puternici, baze puternice, agenți de oxidare puternici, și agenți de reducere puternici

10.6. Produși de descompunere periculoși

Descompunerea termică poate produce vapori corozivi.

SECȚIUNEA 11: INFORMAȚII TOXICOLOGICE

11.1. Informații privind clasele de pericol definite în Regulamentul (CE) nr. 1272/2008

Toxicitate acută

Produs/ingredient	hidroxid de potasiu; potasa caustică
Specii:	Șobolan, masculi
Ruta expunerii:	Orală
Test:	LD50
Rezultat:	333 - 388 mg/kg

Produs/ingredient	hidroxid de sodiu; soda caustică (hidroxid de sodiu)
Rezultat:	45.4 mg/L

Produs/ingredient	hidroxid de sodiu; soda caustică (hidroxid de sodiu)
Specii:	Iepure
Test:	LD 10
Rezultat:	500 mg/kg

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Coroziunea/ iritația pielii

Produs/ingredient	iT.33 laundry booster pro
Rezultat:	Se observă efecte adverse (Foarte iritant)

Produs/ingredient	hidroxid de potasiu; potasa caustica
Rezultat:	Se observă efecte adverse (Corosiv)

Produs/ingredient	hidroxid de sodiu; soda caustica(hidroxid de sodiu)
Rezultat:	Se observă efecte adverse (Iritant)

Provoacă arsuri grave ale pielii și lezarea ochilor.

Daune serioase ale ochilor/ iritație

Produs/ingredient	iT.33 laundry booster pro
Rezultat:	Se observă efecte adverse (Provoacă leziuni oculare grave)

Produs/ingredient	hidroxid de potasiu; potasa caustica
Rezultat:	Se observă efecte adverse (Foarte coroziv)

Produs/ingredient	hidroxid de sodiu; soda caustica(hidroxid de sodiu)
Metoda de testare:	OECD 405
Specii:	Iepure
Rezultat:	Se observă efecte adverse (Corosiv)

Provoacă leziuni oculare grave.

Sensibilizarea căilor respiratorii

Produs/ingredient	hidroxid de potasiu; potasa caustica
Rezultat:	Nu se observă efecte adverse (nesensibilizând)

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Sensibilizarea pielii

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Mutație celule embrioni

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Cancerigenitate

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Toxicitate reproductiva

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Expunere singulara STOT

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Expunere repetata STOT

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

Aspirare periculoasa

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

11.2. Informații privind alte pericole

Efecte pe termen lung

Efectele dăunării țesutului - Acest produs conține substanțe corozive. Dacă vaporii sau aerosolii sunt inhalați, acest lucru poate rezulta în daune asupra plămânilor, iritație sau arsuri ale organelor respiratorii precum și tusea.

Substanțele corozive poate cauza daune ireversibile asupra ochilor și arsuri acide pe piele.

Proprietăți de perturbator endocrin

Acest amestec/produs nu conține nicio substanță considerată a avea proprietăți de perturbare hormonală în ceea ce privește sănătatea.

Alte informații

Nimeni familiar.

SECȚIUNEA 12: INFORMAȚII ECOLOGICE

12.1. Toxicitatea

Produs/ingredient	iT.33 laundry booster pro
Specii:	Andere waterorganismen, Leuciscus idus
Compartimentul de mediu	Apă
:	
Durata:	96 ore
Test:	LC50
Rezultat:	>100 mg/L

Produs/ingredient	hidroxid de sodiu;soda caustica(hidroxid de sodiu)
Specii:	Bacterii, Pseudomonas putida
Test:	EC0
Rezultat:	>100 mg/L

Produs/ingredient	hidroxid de sodiu;soda caustica(hidroxid de sodiu)
Specii:	Dafnii, Ceriodaphnia dubia
Durata:	48 ore
Rezultat:	40.4 mg/L

Produs/ingredient	hidroxid de sodiu;soda caustica(hidroxid de sodiu)
Metoda de testare:	OECD 203
Specii:	Pește, Oncorhynchus mykiss
Durata:	96 ore
Test:	LC50
Rezultat:	45.4 mg/L

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

12.2. Persistența și degradabilitatea

Pe baza datelor disponibile, criteriile de clasificare nu sunt îndeplinite.

12.3. Potențialul de bioacumulare

Produs/ingredient	hidroxid de sodiu;soda caustica(hidroxid de sodiu)
Concluzie:	Nu este preconizată bioacumularea

12.4. Mobilitatea în sol

Nu există date disponibile.

12.5. Rezultatele evaluărilor PBT și vPvB

Acest amestec/produs nu conține nicio substanță care îndeplinește criteriile de clasificare ca PBT și/sau vPvB.

12.6. Proprietăți de perturbator endocrin

Acest amestec/produs nu conține nicio substanță considerată a avea proprietăți de perturbare a sistemului endocrin în raport cu mediul.

12.7. Alte efecte adverse

Nimeni familiar.

SECȚIUNEA 13: CONSIDERAȚII PRIVIND ELIMINAREA

Este conform cu Regulamentul (CE) nr. 1907/2006 (REACH), Anexa II, amendată prin Regulamentul (UE) nr. 2020/878

13.1. Metode de tratare a deșeurilor

Acest produs este acoperit de regulamentele privind deșeurile periculoase. (*)

HP 8 - Corozive

Aruncați conținutul/recipientul la într-o fabrică de depozitare de deșeuri aprobată.

Regulamentul (UE) NR. 1357/2014 al Comisiei din 18 decembrie 2014 privind deșeurile.

Cod EWC:

20 01 29*

Detergenți conținând substanțe periculoase

Ambalare contaminată

Pachetele ce conțin resturi din produse trebuie dispuse în același loc ca și produsul.

SECȚIUNEA 14: INFORMAȚII REFERITOARE LA TRANSPORT

	14.1 ONU	14.2 Denumirea corectă ONU pentru expediție	14.3 Clasa (clasele) de pericol pentru transport	14.4 PG*	14.5. Env**	Alte informații:
ADR	UN1719	LICHID ALCALIN CAUSTIC, N.S.A. (hidroxid de potasiu; potasa caustică, hidroxid de sodiu; soda caustică (hidroxid de sodiu))	Clasa: 8 Etichete: 8 Cod de clasificare: C5 	II	Nu	Cantități limitate: 1 L Cod restricție tunel: (E) Consultați mai jos informațiile suplimentare.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash, sodium hydroxide; caustic soda)	Clasa: 8 Etichete: 8 Cod de clasificare: C5 	II	Nu	Cantități limitate: 1 L EmS: F-A S-B Consultați mai jos informațiile suplimentare.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide; caustic potash, sodium hydroxide; caustic soda)	Clasa: 8 Etichete: 8 Cod de clasificare: C5 	II	Nu	Consultați mai jos informațiile suplimentare.

* Grupul de ambalare

** Pericole pentru mediul înconjurător

Informații adiționale

Acest produs este acoperit prin convențiile pentru bunurile periculoase.

ADR / Consultați tabelul A, secțiunea 3.2.1 pentru informații privind prevederile speciale, cerințele sau avertismentele legate de transport. Consultați secțiunea 5.4.3 pentru instrucțiuni în scris privind diminuarea daunelor în legătură cu incidentele sau accidentele din timpul transportului.

IMDG / Consultați secțiunea 3.2.1 pentru informații privind prevederile speciale, cerințele sau avertismentele legate de transport.

IATA / Consultați tabelul 4.2 pentru informații privind prevederile speciale, cerințele sau avertismentele legate de transport.

14.6. Precauții speciale pentru utilizatori

Nu este aplicabil.

14.7. Transportul maritim în vrac în conformitate cu instrumentele OMI

Nu există date disponibile.

SECȚIUNEA 15: INFORMAȚII DE REGLEMENTARE

15.1. Regulamente/legislație în domeniul securității, al sănătății și al mediului specifice (specifică) pentru substanța sau amestecul în cauză

Restricții pentru aplicare:

Utilizare limitată numai în scopuri profesionale.

Perosanele sub 18 ani nu trebuie să fie expuse la acest produs.

Cerințe pentru instruire corespunzătoare:

Nu există cerințe specifice.

SEVESO - Categorii de substanțe periculoase / Denumirea substanțelor periculoase:

Nu este aplicabil.

Informații adiționale:

Nu este aplicabil.

Surse:

ORDIN nr. 753 din 16 octombrie 2006 privind protecția tinerilor în muncă, EMITENT: MINISTERUL MUNCII, SOLIDARITĂȚII SOCIALE ȘI FAMILIEI, Publicat în MONITORUL OFICIAL nr. 925 din 15 noiembrie 2006.

Regulamentul (CE) nr. 648/2004 al Parlamentului European și al Consiliului din 31 martie 2004 privind detergenții.

Regulamentul (UE) NR. 1357/2014 al Comisiei din 18 decembrie 2014 privind deșeurile.

Regulamentul (CE) nr. 1272/2008 al Parlamentului European și al Consiliului din 16 decembrie 2008 privind clasificarea, etichetarea și ambalarea substanțelor și a amestecurilor (CLP).

Regulamentul (CE) nr. 1907/2006 al Parlamentului European și al Consiliului din 18 decembrie 2006 privind înregistrarea, evaluarea, autorizarea și restricționarea substanțelor chimice (REACH).

15.2. Evaluarea securității chimice

Nu

SECȚIUNEA 16: ALTE INFORMAȚII

Textul complet al frazelor H sunt menționate în secțiunea 3.

H290, Poate fi corosiv pentru metale.

H302, Nociv în caz de înghițire.

H314, Provoacă arsuri grave ale pielii și lezarea ochilor.

H315, Provoacă iritarea pielii.

H318, Provoacă leziuni oculare grave.

H319, Provoacă o iritare gravă a ochilor.

Abrevieri și acronime

ADN = Prevederile Europene privind Transportul Internațional de Mărfuri Periculoase pe Ape Continentale

ADR = Acordul European privind Transportul Internațional Rutier de Mărfuri Periculoase

TAE = Toxicitate Acută Estimată

FBC = Factor de Bioconcentrație

CAS = Serviciul de Catalogare al Chimicalelor

CE = Conformité Européenne

CLP = Regulamentul privind Clasificarea, Etichetarea și Ambalarea [Regulamentul (CE) Nr. 1272/2008]

COV = Compus Organic Volatil

CSA = Evaluare privind Siguranța Chimică

CSR = Raport privind Siguranța Chimică
DNEL = Nivel Fără Efect
EINECS = Inventarul European al Substanțelor Chimice Existente pe piață
ES = Scenariu de Expunere
specificare EUH = specificare privind pericolul specifică CLP
EuPCS = Sistemul european de clasificare a produselor
EWC = Catalog European pentru Deșeuri
GHS = Sistem Global Harmonizat al Clasificării și Etichetării Chimicalelor
GWP = Potențialul de încălzire globală
IATA = Asociația Internațională a Transportului Aerian
IBC = Container Intermediar Vrac IMDG = Internațional Maritim Mărfuri Periculoase
LogPow = logaritm al octanolului/coeficient al partiției apei
MARPOL 73/78 = Convenția Internațională pentru Prevenirea Poluării provenite de la Nave, 1973 așa cum a fost modificată prin Protocolul din 1978 ("Marpol" = poluare marină)
OECD = Organizația pentru Cooperarea Economică și Dezvoltare
PBT = Persistent, Biocumulativ și Toxic
PNEC = Concentrație Prevăzută Fără Efect
RID = Regulamentul privind Transportul Internațional Feroviar al Mărfurilor Periculoase
RRN = Număr Înregistrare REACH
SCL = Concentrație specifică.
SVHC = Substanțe de Foarte Mare Îngrijorare
STOT-RE = Toxicitate Organ Țintă Specifică - Expunere Repetată
STOT-SE = Toxicitate Organ Țintă Specifică - Expunere Unică
VLA = Medie cântărită în timp
UN = Națiunile Unite
UVCB = compoziție necunoscută sau variabilă, produse cu reacție complexă sau cu materiale biologice
vPvB = Foarte Persistent și Foarte Biocumulativ

Informații adiționale

Clasificarea amestecului cu privire la pericolele pentru sănătate este în conformitate cu metodele de calcul precizate în Regulamentul (CE) Nr. 1272/2008 (CLP).

Fișă cu date de securitate este validată de

Quality & Compliance

Altele

O modificare (în proporție cu ultima modificare esențială (primul cifru din versiunea SDS) este marcată cu un triunghi. Informațiile din fișă de securitate se aplică doar acestui produs specific (menționat în secțiunea 1) și nu este în mod necesar corect pentru utilizarea altor chimicale/ produse.

Este recomandat să predeți fișă cu date de securitate actualului utilizator al produsului. Informații cu privire la această fișă nu pot fi folosite ca și specificațiile produsului.

Țară-limbă: RO-ro

БЕЗБЕДНОСНИ ЛИСТ

iT.33 laundry booster pro

ПОГЛАВЉЕ 1. ИДЕНТИФИКАЦИЈА ХЕМИКАЛИЈЕ И ПОДАЦИ О ЛИЦУ КОЈЕ СТАВЉА ХЕМИКАЛИЈУ У ПРОМЕТ

1.1. Идентификација хемикалије

Комерцијално име:

iT.33 laundry booster pro

UFI:

EMGV-AVQ8-YF2J-F4QE

1.2. Идентификовани начини коришћења хемикалије и начини коришћења који се не препоручују

Употреба материјала/смеше:

Детерџенти и средства за чишћење (укључујући и оне на бази растварача)

Дозвољено само за професионално коришћење.

Употребе које се не препоручују:

Нема познатих.

1.3. Подаци о снабдевачу

Компанија и адреса:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

Електронска адреса:

info@hygeniq.com

Датум безбедносног листа:

14.8.2025.

Верзија безбедносног листа:

2.0

Датум претходне верзије:

28.7.2025. (1.0)

1.4. Број телефона за хитне случајеве

Телефонски број хитне помоћ: 194

Дежурни токсиколог (24 сата дневно): +381 (11) 360 84 40

Центар за контролу тровања на ВМА, тел: +381 (11) 266 11 22, +381 (11) 266 27 55

Такође погледајте поглавље 4 за мере прве помоћи.

ПОГЛАВЉЕ 2. ИДЕНТИФИКАЦИЈА ОПАСНОСТИ

Према ПРАВИЛНИК о садржају безбедносног листа (Број: 110-00-27/2011-04)

Класификовано у складу са Уредбом о класификацији, паковању, обележавању и оглашавању (Службени гласник РС, 105/13).

2.1. Класификација хемикалије

Met. Corr. 1; H290, Може бити корозивно за метале.

Skin Corr. 1A; H314, Изазива тешке опекотине коже и оштећење ока.

Eye Dam. 1; H318, Доводи до тешког оштећења ока.

2.2. Елементи обележавања

Пиктограм опасности:



Реч упозорења:

Опасност

Обавештење о опасности:

Може бити корозивно за метале. (H290)

Изазива тешке опекотине коже и оштећење ока. (H314)

Обавештење о мерама предострожности:

▼ Опште:

Није применљиво.

Превенција:

Не удисати пару/маглу. (P260)

Носити заштиту за очи/заштитне рукавице/заштитну одећу. (P280)

▼ Реаговање:

АКО ДОСПЕ НА КОЖУ (или косу): Одмах скинути сву контаминирану одећу. Испрати кожу водом или истуширати се. (P303+P361+P353)

АКО ДОСПЕ У ОЧИ: Пажљиво испрати водом неколико минута. Уклонити контактна сочива, уколико постоје и уколико је то могуће учинити. Наставити са испирањем. (P305+P351+P338)

Одмах позвати ЦЕНТАР ЗА КОНТРОЛУ ТРОВАЊА/лекара. (P310)

Складиштење:

Чувати у амбалажи са унутрашњим слојем. (P406)

Одлагање:

Одлагање садржаја / амбалаже у складу са локалним прописима (P501)

Опасне материје:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Додатно обавештење о опасности:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Остале опасности

Додатна упозорења:

Ова смеша/производ не садржи супстанце за које се сматра да испуњавају критеријуме да буду класификовани као ПБТ и/или вПвБ.

Овај производ не садржи материје које се сматрају ендокриним дисрупторима у складу са критеријумима наведеним у Делегираној уредби Комисије (ЕУ) 2017/2100 или Уредби Комисије (ЕУ) 2023/707.

ПОГЛАВЉЕ 3. САСТАВ / ПОДАЦИ О САСТОЈЦИМА

Према ПРАВИЛНИК о садржају безбедносног листа (Број: 110-00-27/2011-04)

3.1. Подаци о састојцима супстанце

Није применљиво. Овај производ је микстура.

3.2. ▼ Подаци о састојцима смеше

Хемијски назив	CAS / EC / индекса / REACH број	% w/w	Класификација	Напомена
potassium hydroxidecaustic potash	CAS бр.: 1310-58-3 EC бр.: 215-181-3 REACH: Индекс бр. : 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
sodium hydroxidecaustic soda	CAS бр.: 1310-73-2 EC бр.: 215-185-5 REACH: 01-2119457892-27-XXXX Индекс бр. : 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Погледајте потпуни текст X-израза у поглавље 16. Границе изложености током рада наведене су у поглавље 8, ако су доступне.

Остали подаци

-

ПОГЛАВЉЕ 4. МЕРЕ ПРВЕ ПОМОЋИ

4.1. Опис мера прве помоћи

Опште информације:

Уколико је дисање неправилно, и јавља се поспаност, губитак свести или грчеви: Позовите 194 и одмах почните са мерама помоћи (прва помоћ).

Ако имате сумње у вези са стањем повређене особе или ако симптоми потрају, обратите се лекару. Никад несвесној особи немојте давати воду или неко друго пиће.

После удисања:

Потешкоће са дисањем или иритација дисајних путева: Изведите особу на свеж ваздух и останите уз њу.

У додиру са кожом:

Дуго испирајте изложено подручје водом - најмање 30 минута. Можда ће бити потребно испирање неколико сати. Користите угодну температуру воде (20-30 °C). Контактирајте информације о тровању/лекара/болницу за даље савете о праћењу и лечењу.

Одмах скините контаминирану одећу и обућу. Обавезно темелјно оперете изложену кожу водом и сапуном . Може се користити средство за чишћење коже. НЕ користите раствараче или разређиваче.

Ако дође до иритације коже: Потражити медицински савет / мишљење.

Након контакта са очима:

АКО ДОСПЕ У ОЧИ: Испирајте очи са много воде или сланом водом (20-30 °C) најмање 30 минута и наставите са испирањем док иритација не престане. Извадите контактна сочива. Обавезно исперите подручје испод горњег и доњег капка. Одмах потражите лекарску помоћ и наставите са испирањем.

Након гутања:

У случају гутања, одмах се обратите лекару и понесите безбедносни лист или етикету. Ако је особа свесна, дајте јој воде. НЕ покушавајте да изазовете повраћање, осим ако то не препоручи лекар. Држите главу

окренути на доле како бисте спречили да се садржај повраћања врати у уста и грло. Спречите шок тако што ћете повређену особу држати мирном и утопљеном. Ако дисање престане, одмах започните оживљавање. Уколико дође до губитка свести, повређену особу пребаците у положај за опоравак. Позовите хитну помоћ.

Сагоревање:

Није применљиво.

4.2. Најважнији симптоми и ефекти, акутни и одложени

Оштећење ткива: Овај производ садржи супстанце са корозивним дејством на кожу. Удисање испарења или аеросола може имати штетне ефекте на плућа, изазвати иритацију и опекотине на дисајним органима, као и кашаљ. Контакти путем коже и контакт са очима имају неповратне ефекте.

4.3. Хитна медицинска помоћ и посебан третман

У СЛУЧАЈУ излагања или забринутости:

Хитно потражити медицински савет / мишљење

Информације за здравствене раднике

Донесите безбедносно упутство .

ПОГЛАВЉЕ 5. МЕРЕ ЗА ГАШЕЊЕ ПОЖАРА

5.1. Средства за гашење пожара

Није применљиво.

5.2. Посебне опасности које могу настати од супстанци и смеша

Пожар ће довести до стварања густог дима. Излагање запаливим производима може наштетити вашем здрављу. Затворене посуде изложене ватри требало би охладити водом. Не дозволите да вода за гашење пожара доспе у канализацију и оближње површинске токове.

Уколико је производ изложен високим температурама, нпр. у случају пожара, настају опасна јединиња као резултат његовог распадања. То су:

Неки метални оксиди

5.3. Савет за ватрогасце

Носите изолациони апарат за дисање и заштитну одећу ради спречавања контакта. Након директног излагања контактирајте Национални центар за контролу тровања на број +381 (11) 360 84 40 (24 сата дневно) ради добијања додатних савета.

ПОГЛАВЉЕ 6. МЕРЕ У СЛУЧАЈУ УДЕСА

6.1. Личне предострожности, заштитна опрема и поступци у случају удеса

Избегавајте директан контакт са проливеним материјама.

Контаминирани простор може бити клизав.

6.2. Предострожности које се односе на животну средину

Избегавајте испуштање у језера, потоке, канализације итд.

Неовлашћене особе држите подаље од изливања.

6.3. Мере које треба предузети и материјал за спречавање ширења и санацију

Користите песак, земљу, вермикулит, диятомейску земљу да бисте задржали и купили незапаливе упијајуће материјале и ставите у контејнер за одлагање, у складу са локалним прописима.

Чишћење се у мери у којој је то могуће обавља нормалним средствима за чишћење. Избегавајте употребу растварача.

6.4. Упућивање на друга поглавља

Погледајте поглавље 13 „Одлагање” у вези са поступком за отпад.

За заштитне мере погледајте поглавље 8 „Контрола изложености и лична заштита”.

ПОГЛАВЉЕ 7. РУКОВАЊЕ И СКЛАДИШТЕЊЕ

7.1. Предострожности за безбедно руковање

Избегавајте директан контакт са производом.

Пушење, и конзумирање хране и писа нису дозвољени у радном простору.

За информације о личној заштити погледајте поглавље „Контрола изложености и лична заштита“.

7.2. Услови за безбедно складиштење, укључујући некомпатибилности

Отворени контејнери се морају пажљиво затворити и држати усправно како би се спречило цурење.

Чувати у амбалажи са унутрашњим слојем .

Препоручени материјал за складиштење:

Чувати само у оригиналној амбалажи.

Услови складиштења:

Суво, хладно и добро проветравано

Некомпатибилни материјали:

Јаке киселине, јаке базе, јака оксидациона средства и јака редукциона средства.

7.3. Посебни начини коришћења

Овај производ би требало користити само за примене наведене у поглавље 1.2

ПОГЛАВЉЕ 8. КОНТРОЛА ИЗЛОЖЕНОСТИ И ЛИЧНА ЗАШТИТА

8.1. Параметри контроле изложености

На националној листи супстанци са ограничењем у погледу изложености током рада није наведена ниједна супстанца.

DNEL

potassium hydroxidecaustic potash

Трајање:	Пут експозиције:	DNEL:
Дугорочно - Локално - Потрошач	Инхалацијски	1 mg/m ³
Дугорочно - Локално - Радник	Инхалацијски	1 mg/m ³

sodium hydroxidecaustic soda

Трајање:	Пут експозиције:	DNEL:
Дугорочно - Системски - Потрошач	Дерматолошки	2 %
Дугорочно - Системски - Радник	Дерматолошки	<2 %
Дугорочно - Локално - Потрошач	Инхалацијски	1 mg/m ³
Дугорочно - Локално - Радник	Инхалацијски	1 mg/m ³

PNEC

sodium hydroxidecaustic soda

Пут експозиције:	Трајање изложености:	PNEC:
Морска вода		0.64 mg/L
Периодично ослобађање		3.1 mg/L
Периодично ослобађање (Морска вода)		2.3 mg/kg TG
Постројењима за пречишћавање отпадних вода		51 mg/L
Седимент слатке воде		23 mg/kg TG
Слатка вода		6.4 mg/L

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Тло	0.853 mg/kg TG

8.2. Контрола изложености и лична заштита

Извршите општу контролу да бисте спречили непотребно излагање.

Опште препоруке:

Пушење, и конзумирање хране и пића нису дозвољени у радном простору.

Сценарији излагања:

За овај производ нису имплементирани сценарији изложености.

Границе излагања:

Границе изложености током рада нису дефинисане за супстанце у овом производу.

Одговарајући технички уређаји за управљање:

Осигурајте да се станице за испирање очију и безбедносни тушеви налазе на дохват руке.

Примените стандардне мере предострожности током употребе производа. Избегавајте удисање испарења.

Хигијенске мере:

Сви изложени делови тела морају да се темелјно оперу у интервалима између употребе производа и на крају радног дана. Обратите посебну пажњу на руке, подлактице и лице.

Мере спречавања контакта са животном средином:

Материјал за пригушивање држите у близини радног места. Ако је могуће, сакупите материјал присут током рада.

Опште мере заштите и хигијене

Генерално:

Користите само заштитну опрему са знаком CE.

Заштита дисајних путева:

Тип	Класа	Боя	Стандарди	
Респираторна заштита није потребна				

Заштита тела:

Препоручено	Тип / Категорија	Стандарди	
Posebna radna odeća	-	-	

Заштитне руке:

Радна ситуација	Материјал	Дебљина рукавице	Време продирања (Минути)	Стандарда	
У случају продуженог излагања или високе концентрације	Нитрилни каучук	0.4	> 480	EN374-2, EN16523-1, EN388	
У случају краткотрајног излагања или ниске концентрације	Нитрилни каучук	1,5	> 30	EN374-2, EN16523-1, EN388	

Заштита очију/лица:

Тур	Стандарди	
Заштитне наочаре са бочним штитницима	EN166	

ПОГЛАВЉЕ 9. ФИЗИЧКА И ХЕМИЈСКА СВОЈСТВА

9.1. Подаци о основним физичким и хемијским својствима хемикалије

Изгледу - агрегатно стање:

Течно

Боји:

Светло жуто

▼ *Мирису / Прагу мириса (ppm):*

Благо

pH:

13.5

Релативна густина (g/cm³):

1,29 (20 °C)

Кинематичка вискозност:

Нема доступних података.

Карактеристике честица:

Не односи се на течности

Фазне промене

Тачка топљења / тачка мржњења (°C):

Нема доступних података.

Тачка/опсег омекшавања (°C):

Не односи се на течности

Почетна тачка кључања и опсег кључања (°C):

100

Напон паре:

Нема доступних података.

Релативна густина паре:

Нема доступних података.

Температура разлагања (°C):

Нема доступних података.

Подаци о опасностима од пожара и експлозије

Запаљивост (чврсто, гасовито):

Нема доступних података.

Тачка паљења (°C):

Нема доступних података.

Температура самопаљења (°C):

Нема доступних података.

Горња / доња граница запаљивости или експлозивности (%v/v):

Нема доступних података.

Растворљивост

Растворљивост у вода:

У потпуности растворљив

Коефицијент расподеле у систему n-октанол/вода (LogKow):

Нема доступних података.

Растворљивост у масти (g/L):

Нема доступних података.

9.2. Остали подаци

Остали физички и хемијски параметри:

Нема доступних података.

Оксидујућа својства:

Нема доступних података.

ПОГЛАВЉЕ 10. СТАБИЛНОСТ И РЕАКТИВНОСТ

10.1. Реактивност

Нема доступних података.

10.2. Хемијска стабилност

Производ је стабилан под условима наведеним у одељку 7 „Руковање и складиштење“.

10.3. Могућност настанка опасних реакција

Нема познатих.

10.4. Услови које треба избегавати

Нема познатих.

10.5. Некомпатибилни материјали

Јаке киселине, јаке базе, јака оксидациона средства и јака редукциона средства.

10.6. Опасни производи разградње

Термичко распаѓање може произвести корозивне паре.

ПОГЛАВЉЕ 11. ТОКСИКОЛОШКИ ПОДАЦИ

11.1. Подаци о токсичним ефектима

Акутна токсичност

Хемијски назив	potassium hydroxidecaustic potash
Врсте:	Пацов, мужјаци
Пут експозиције:	Орално
Тест:	LD50
Вредност:	333 - 388 mg/kg

Хемијски назив	sodium hydroxidecaustic soda
Вредност:	45.4 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Зеџ
Тест:	LD lo
Вредност:	500 mg/kg

На основу доступних података, критеријуми за класификацију нису испуњени.

Корозивно оштећење коже / иритација

Према ПРАВИЛНИК о садржају безбедносног листа (Број: 110-00-27/2011-04)

Хемијски назив	iT.33 laundry booster pro
Вредност:	Установљени су негативни ефекти (Јако иритантан)

Хемијски назив	potassium hydroxidcaustic potash
Вредност:	Установљени су негативни ефекти (Корозивно)

Хемијски назив	sodium hydroxidcaustic soda
Вредност:	Установљени су негативни ефекти (Иритантан)

Изазива тешке опекотине коже и оштећење ока.

Тешко оштећење ока / иритација ока

Хемијски назив	iT.33 laundry booster pro
Вредност:	Установљени су негативни ефекти (Доводи до тешког оштећења ока)

Хемијски назив	potassium hydroxidcaustic potash
Вредност:	Установљени су негативни ефекти (Јако корозивно)

Хемијски назив	sodium hydroxidcaustic soda
Метод тестирања:	ОЕЦД 405
Врсте:	Зеџ
Вредност:	Установљени су негативни ефекти (Корозивно)

Доводи до тешког оштећења ока.

Сензибилизација респираторних органа

Хемијски назив	potassium hydroxidcaustic potash
Вредност:	Нису установљени негативни ефекти (не сензибилизација)

На основу доступних података, критеријуми за класификацију нису испуњени.

Сензибилизација коже

На основу доступних података, критеријуми за класификацију нису испуњени.

Мутагеност геринативних ћелија

На основу доступних података, критеријуми за класификацију нису испуњени.

Карциногеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Токсичност по репродукцију

На основу доступних података, критеријуми за класификацију нису испуњени.

Специфична токсичност за циљни орган - једнократна изложеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Специфична токсичност за циљни орган - виšekратна изложеност

На основу доступних података, критеријуми за класификацију нису испуњени.

Опасност од аспирације

На основу доступних података, критеријуми за класификацију нису испуњени.

11.2. Информације о другим опасностима

Dugoročni efekti

Оштећење ткива: Овај производ садржи супстанце са корозивним дејством на кожу. Удисање испарења или аеросола може имати штетне ефекте на плућа, изазвати иритацију и опекотине на дисајним органима, као и кашаљ. Контакти путем коже и контакт са очима имају неповратне ефекте.

Угрожава рад ендокриних жлезда

Ова смеша/производ не садржи никакве материје за које се сматра да имају својства изазивања хормонског поремећаја.

Додатне информације

Нема познатих.

ПОГЛАВЉЕ 12. ЕКОТОКСИКОЛОШКИ ПОДАЦИ

12.1. Токсичност

Хемијски назив	iT.33 laundry booster pro
Врсте:	Andere waterorganismen, Leuciscus idus
Окружење:	Вода
Трајање:	96 сати
Тест:	LC50
Вредност:	>100 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Бактерије, Pseudomonas putida
Тест:	EC0
Вредност:	>100 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Врсте:	Водене буве, Ceriodaphnia dubia
Трајање:	48 сати
Вредност:	40.4 mg/L

Хемијски назив	sodium hydroxidecaustic soda
Метод тестирања:	ОЕЦД 203
Врсте:	Рибе, Oncorhynchus mykiss
Трајање:	96 сати
Тест:	LC50
Вредност:	45.4 mg/L

На основу доступних података, критеријуми за класификацију нису испуњени.

12.2. Перзистентност и разградљивост

На основу доступних података, критеријуми за класификацију нису испуњени.

12.3. Потенцијал биоакумулације

Хемијски назив	sodium hydroxidecaustic soda
Закључак:	Биоакумулација се не очекује

12.4. Мобилност у земљишту

Нема доступних података.

12.5. Резултати ПБТ и вПвБ процене

Ова смеша/производ не садржи супстанце за које се сматра да испуњавају критеријуме да буду класификовани као ПБТ и/или вПвБ.

12.6. Угрожава рад ендокриних жлезда

Ова смеша/производ не садржи никакве материје за које се када се нађу унутар животне средине сматра да имају својства ометања ендокриног система.

12.7. Остали штетни ефекти

Нема познатих.

ПОГЛАВЉЕ 13. ОДЛАГАЊЕ

13.1. Методе третмана отпада

На производ се односе прописи о опасном отпаду. (*)

Према ПРАВИЛНИК о садржају безбедносног листа (Број: 110-00-27/2011-04)

HP 8 - Корозивно

Одлагање садржаја / амбалаже у складу са локалним прописима.

Уредба комисије (ЕУ) бр. 1357/2014 од 18. децембра 2014. године која замењује прилог IIIИ директиве 2008/98/ЕЗ Европског парламента и савета о отпаду.

Код европског каталога отпада (EWЦ):

20 01 29* детерџенти који садрже опасне супстанце

Контаминирани амбалаже

Амбалажа која садржи остатке производа мора се одложити на исти начин као и производ.

ПОГЛАВЉЕ 14. ПОДАЦИ О ТРАНСПОРТУ

	14.1 UN	14.2 Назив за терет у транспорту	14.3 Класа	14.4 PG*	14.5. Env**	Остали подаци:
ADR	UN1719	НАГРИЗАЈУЋА АЛКАЛНА ТЕЧНА МАТЕРИЈА, Н.Д.Н. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	Ограничене количина: 1 L Кодови за ограничења за тунеле: (E) За додатне информације, погледајте доле.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	Ограничене количина: 1 L EmS: F-A S-B За додатне информације, погледајте доле.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Класа: 8 Листи-це опасности: 8 Класификациони код: C5 	II	Не	За додатне информације, погледајте доле.

* Група паковања

** Опасност по животну средину

Додатне информације

Овај производ је обухваћен прописима о транспорту опасне робе.

АДР / Видети табелу А, одељак 3.2.1 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом. Видети одељак 5.4.3, за упутства у писаној форми у вези са ублажавањем штета у вези са инцидентима или незгодама током транспорта.

Према ПРАВИЛНИК о садржају безбедносног листа (Број: 110-00-27/2011-04)

ИМГД / Видети одељак 3.2.1 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом.

IATA / Видети табелу 4.2 за све информације о посебним одредбама, захтевима или упозорењима у вези са транспортом.

14.6. Посебне предострожности за корисника

Није применљиво.

14.7. Транспорт у расутом стању (Анексу ИИ Међународне конвенције за спречавање загађења из бродова и ИБЦ Цоде)

Нема доступних података.

ПОГЛАВЉЕ 15. РЕГУЛАТОРНИ ПОДАЦИ

15.1. Прописи у вези са безбедношћу, здрављем и животном средином

Ограничєна за примену:

Дозвољено само за професионално коришћење.

Особе млађе од 18 година не смеју бити изложене овом производу.

Захтеви за специфичним образовањем:

Нема посебних захтева.

"СЕВЕСО" - Категорија / Опасне материје:

Није применљиво.

Додатне информације:

Није применљиво.

Извори:

ПРАВИЛНИК о превентивним мерама за безбедан и здрав рад младих (Службени гласник РС, 102/2016)

ПРАВИЛНИК о детергентима ("Службени гласник РС", 25/2015)

ПРАВИЛНИК о категоријама, испитивању и класификацији отпада (Службени гласник РС, 56/10)

Правилник о класификацији, паковању, обележавању и оглашавању хемикалије и одређеног производа у складу са Глобално хармонизованим системом за класификацију и обележавање УН: 105/2013-16, 52/2017-73, 21/2019-208

15.2. Процена безбедности хемикалије.

Не

ПОГЛАВЉЕ 16. ОСТАЛИ ПОДАЦИ

Комплетан текст Х-фраза како је наведено у поглавље 3

H290, Може бити корозивно за метале.

H302, Штетно ако се прогута.

H314, Изазива тешке опекотине коже и оштећење ока.

H315, Изазива иритацију коже.

H318, Доводи до тешког оштећења ока.

H319, Доводи до јаке иритације ока.

Скраћенице и акроними

ADR = Европски споразум о међународном друмском превозу опасне робе

ATE = Процена акутне токсичности

BCF = Фактор биоконцентрације

CAS = Служба хемијских сажетака

CE = европска усаглашеност

CLP = Уредба о класификацији, означавању и паковању [Уредба (ЕЗ) бр. 1272/2008]

CSA = Процена хемијске безбедности

CSR = Извештај о хемијској безбедности
STOT = Специфична циљна токсичност органа
DMEL = Изведени минимални ниво ефекта
DNEL = Изведени ниво без ефекта
EINECS = Европски инвентар постојећих комерцијалних хемијских супстанци
ES = Сценарио изложености
EUN izjava = ЦЛП-специфична изјава о опасности
EUPCS = Европски систем категоризације производа
EWЦ = Европски каталог отпада
GHS = Глобално усклађени систем класификације и обележавања хемикалија
GWP (ГВП) = Потенцијал глобалног загревања
IARC = међународна агенција за истраживање рака
IATA = Међународно удружење за ваздушни саобраћај
IBC = Средњи контејнер за расути терет
IMDG = Међународна поморска опасна роба
LogPow = Логаритам коефицијента раздвајања октанол/вода
MARPOL = Међународна конвенција о спречавању загађења са бродова из 1973. године, измењена протоколом из 1978. („Marpol“ = загађење мора)
ОЕЦД = Организација за Економску Царадњу и Дазвој
ПБТ = Истрајан, биоакумулативан и токсичан
PNEC = Предвиђена концентрација без ефекта
RID = Прописи који се тичу међународног превоза опасне робе железницом
RRN = REACH регистрациони број
SCL = има одређену границу концентрације.
SVHC = Веома забрињавајуће супстанце
STOT-RE = Специфична циљна токсичност органа - понављана излагања
STOT-SE = Специфична циљна токсичност органа - појединачна излагања
TWA = Временски пондерисан просек
UN = Уједињене нације
UVBC = Непознат или променљив састав, сложени продукти реакције или биолошки материјали
VOC = Нестабилно органско јединијење
вПвБ = Веома трајно и врло биоакумулативно

Додатне информације

Класификација смеше у погледу опасности по здравље уађена је у складу са методама израчунавања описаним у Правилнику о класификацији, паковању, означавању и оглашавању.

Класификација смеше у погледу опасности по здравље је у складу са методама израчунавања датим у уредби (ЕЦ) бр. 1272/2008 (CLP).

Безбедносни лист потврђује

Quality & Compliance

Остали подаци

Промена (сразмерно последњој суштинској промени (прва шифра у верзији СДС, погледајте поглавље 1)) обележена је троуглом.

Подаци у овом безбедносном упутству односе се само на овај одређени производ (поменут у поглавље 1) и нису нужно тачни за употребу са другим хемикалијама/производима.

Препоручује се да ово безбедносно упутство дате стварном кориснику производа. Информације у овом безбедносном упутству не могу се користити као спецификације производа.

Земља-језик: RS-Sr

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

SDS created for SAUDI ARABIA according to GHS

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)
Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.
Postbus 618
7500 AP Enschede
The Netherlands
+31 53 4282860
+31 53 5393865
www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/08/2025

SDS Version:

2.0

Date of previous version:

28/07/2025 (1.0)

1.4. Emergency telephone number

Contact the local emergency services.
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to GHS.

2.1. ▼ Classification of the substance or mixture

According to GHS Rev. 8, 2019

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

▼ *Hazard statement(s):*

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

potassium hydroxide;caustic potash

sodium hydroxide;caustic soda

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

According to GHS Rev. 8, 2019

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the national poisons emergency services in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No substances are listed with an occupational exposure limit.

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures:

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only CE marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

According to GHS Rev. 8, 2019

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

No data available.

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

According to GHS Rev. 8, 2019

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

According to GHS Rev. 8, 2019

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Additional information:

Not applicable.

Sources:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019)

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

In accordance with GHS the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by GHS.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: SA-en

SÄKERHETSATABLAD

iT.33 laundry booster pro

AVSNITT 1: NAMNET PÅ ÄMNET/BLANDNINGEN OCH BOLAGET/FÖRETAGET

1.1. Produktbeteckning

Handelsnamn:

iT.33 laundry booster pro

Unik formuleringsidentifierare (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevanta identifierade användningar av ämnet eller blandningen och användningar som det avråds från

Relevanta identifierade användningar av ämnet eller blandningen:

Tvätt- och rengöringsmedel (inklusive lösningsmedelsbaserade)

Endast för yrkesmässigt bruk.

Användningar som det avråds från :

Inga kända.

1.3. Närmare upplysningar om den som tillhandahåller säkerhetsdatabladet

Företagsuppgifter:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-post:

info@hygeniq.com

Omarbetad:

2025-08-14

SDB Version:

2.0

Datum för tidigare utgåva:

2025-07-28 (1.0)

1.4. Telefonnummer för nödsituationer

Akut: Ring 112, begär giftinformation. Öppet dygnet runt.

Mindre akut: Ring 010-456 6700. Öppet dygnet runt.

Se avsnitt 4 om åtgärder vid första hjälpen.

AVSNITT 2: FARLIGA EGENSKAPER

Klassificerad enligt förordningen (EG) nr 1272/2008 (CLP).

2.1. Klassificering av ämnet eller blandningen

Met. Corr. 1; H290, Kan vara korrosivt för metaller.

Skin Corr. 1A; H314, Orsakar allvarliga frätskador på hud och ögon.

Eye Dam. 1; H318, Orsakar allvarliga ögonskador.

2.2. Märkningsuppgifter

Faropiktogram:



Signalord:

Fara

Faroangivelser:

Kan vara korrosivt för metaller. (H290)

Orsakar allvarliga frätskador på hud och ögon. (H314)

Skyddsangivelser:

▼ Allmänt:

Ej tillämpligt.

Förebyggande:

Inandas inte ångor/dimma. (P260)

Använd ögonskydd/skyddshandskar/skyddskläder. (P280)

▼ Åtgärder:

VID HUDKONTAKT (även håret): Ta omedelbart av alla nedstänkta kläder. Skölj huden med vatten eller duscha. (P303+P361+P353)

VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt att skölja. (P305+P351+P338)

Kontakta genast GIFTINFORMATIONSCENTRALEN/läkare. (P310)

Förvaring:

Förvaras i behållare med beständigt innerhölje. (P406)

Avfall:

Innehållet/behållaren lämnas i enlighet med lokala bestämmelser (P501)

Innehåller:

kaliumhydroxid

natriumhydroxid;kaustik soda;natronlut

Annan märkning:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Andra faror

Annat:

Denna blandning/produkt innehåller inga ämnen som anses uppfylla kriterierna för klassificering som PBT- och/eller vPvB-ämnen.

Produkten innehåller inga ämnen som bedömts vara hormonstörande enligt kriterierna i Kommissionens delegerade förordning (EU) 2017/2100 eller Kommissionens förordning (EU) 2023/707.

AVSNITT 3: SAMMANSÄTTNING/INFORMATION OM BESTÅNDSDELAR

3.1. Ämnen

Ej tillämpligt. Denna produkt är en blandning.

3.2. ▼ Blandningar

Produkt/Ämne	Identifierare	% w/w	Klassificering	Anm.
kaliumhydroxid	CAS-nr.: 1310-58-3 EG-nr.: 215-181-3 REACH: Indexnr.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natriumhydroxid;kaustik soda;natronlut	CAS-nr.: 1310-73-2 EG-nr.: 215-185-5 REACH: 01-2119457892-27-XXXX Indexnr.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Fullständig ordalydelse av H-fraserna finns i avsnitt 16. Arbetshygieniska gränsvärden finns i avsnitt 8 - om de är tillgängliga.

Annan information

-

AVSNITT 4: ÅTGÄRDER VID FÖRSTA HJÄLPEN

4.1. Beskrivning av åtgärder vid första hjälpen

Allmänt:

Vid olycka: Kontakta läkare eller akutmottagning - ta med etiketten eller detta säkerhetsdatablad.
Vid bestående symptom eller om det råder tveksamheter om den påverkades tillstånd skall läkarhjälp sökas. Ge aldrig en medvetslös person vatten eller liknande.

Inandning:

I fall av andningssvårigheter eller irritation i andningsvägarna: Flytta den skadade personen till frisk luft direkt och håll personen under uppsyn.

Hudkontakt:

Det är viktigt att skölja länge - minst 30 minuter. Det kan vara nödvändigt att skölja i flera timmar. Använd en behaglig vattentemperatur (20-30 °C). Kontakta giftinformationscentral/läkare/sjukhus för ytterligare rådgivning om uppföljning och behandling.
Avlägsna snabbt förorenade kläder och skor. Hud som har varit i kontakt med materialet tvättas grundligt med tvål och vatten. Hudrengöringsmedel kan användas. Använd EJ organiska lösningsmedel.
Vid hudirritation: Sök läkarhjälp.

Kontakt med ögonen:

Vid kontakt med ögonen: Skölj genast ögonen med rikliga mängder vatten (20-30 °C) till dess irritationen upphör och i minst 30 minuter. Avlägsna eventuella kontaktlinser. Se till att skölja under både övre och nedre ögonlock. Uppsök genast läkare. Fortsätt att skölja under transport.

Förtäring:

Vid förtäring, kontakta omgående läkare. Ge den drabbade vatten att dricka om denne är vid medvetande. Försök EJ framkalla kräkning annat än om läkaren rekommenderar detta. Sänk huvudet så att eventuella kräkningar ej rinner tillbaka i munnen och ner i halsen. Förebygg chock genom att hålla den skadade varm och i stillhet. Ge konstgjord andning om andningen upphör. Vid medvetslöshet, lägg den skadade i framstupa sidoläge. Tillkalla ambulans.

Brännskada:

Ej tillämpligt.

4.2. De viktigaste symptomen och effekterna, både akuta och fördröjda

Vävnadsskadliga effekter: Produkten innehåller frätande ämnen. Om ånga eller luftburna partiklar inandas kan detta ge skador på lungor och förorsaka irritation och sveda i luftvägarna samt hosta. Frätande ämnen orsakar oåterkalleliga skador på ögonen. Fräter på huden.

4.3. Angivande av omedelbar medicinsk behandling och särskild behandling som eventuellt krävs

Vid exponering eller misstanke om exponering:

Sök omedelbart läkarhjälp.

Information till läkare

Medtag detta säkerhetsdatablad eller etiketten från produkten.

AVSNITT 5: BRANDBEKÄMPNINGSÅTGÄRDER

5.1. Släckmedel

Ej tillämpligt.

5.2. Särskilda faror som ämnet eller blandningen kan medföra

Vid brand utvecklas tät rök. Att utsättas för nedbrytningsprodukter kan utgöra hälsofara. Slutna behållare som utsätts för eld avkyls med vatten. Låt ej vatten från brandsläckning rinna ut i kloak och vattendrag.

Om produkten utsätts för höga temperaturen, t.ex. i händelse av brand, kan farliga nedbrytningsprodukter bildas.

Dessa är:

Några metalloxider

5.3. Råd till brandbekämpningspersonal

Använd skyddsutrustning inklusive andningsapparat. Om exponering skett, kontakta Giftinformationscentralen (tel 112, 24/7) för rådgivning.

AVSNITT 6: ÅTGÄRDER VID OAVSIKTLIGA UTSLÄPP

6.1. Personliga skyddsåtgärder, skyddsutrustning och åtgärder vid nödsituationer

Undvik direktkontakt med spill.

Se till att ventilationen är tillräcklig, särskilt i slutna utrymmen.

Förorenade områden kan vara hala.

6.2. Miljöskyddsåtgärder

Undvik utsläpp i sjöar, åar, kloaker etc.

Håll obehöriga personer på avstånd från spillet

6.3. Metoder och material för inneslutning och sanering

Spill begränsas och samlas upp med icke-brännbart absorberande material, t.ex. sand, jord, vemikulit, kiselgur och placeras i behållare och bortskaffas i överensstämmelse med gällande regler.

Rengöring utförs så långt som möjligt med rengöringsmedel. Lösningsmedel bör undvikas.

6.4. Hänvisning till andra avsnitt

Se avsnitt 13 "Avfallshantering".

Se avsnitt 8 "Begränsning av exponeringen/personligt skydd" om personligt skydd.

AVSNITT 7: HANTERING OCH LAGRING

7.1. Skyddsåtgärder för säker hantering

Undvik direktkontakt med produkten.

Rökning, förtäring av mat och intag av dryck är ej tillåtet i arbetslokalerna.

Se avsnitt 8 om personligt skydd.

7.2. Förhållanden för säker lagring, inklusive eventuell oförenlighet

Öppnad behållare skall återförslutas väl och förvaras i upprätt läge för att förhindra läckage.

Förvaras i behållare med beständigt innerhölje.

Kompatibla förpackningar:

Förvaras endast i originalförpackningen.

Förvaringsförhållanden:

Torrt, svalt och väl ventilerat

Oförenliga material:

Starka syror, starka baser, starka oxidationsmedel och starka reduktionsmedel.

7.3. Specifik slutanvändning

Denna produkt bör endast användas för de användningar som beskrivs i avsnitt 1.2.

AVSNITT 8: BEGRÄNSNING AV EXPONERINGEN/PERSONLIGT SKYDD

8.1. Kontrollparametrar

kaliumhydroxid

Korttidsgränsvärde (15 minuter) (mg/m³): 2 (inhalerbart damm)

Nivågränsvärde (8 timmar) (mg/m³): 1 (inhalerbart damm)

natriumhydroxid;kaustik soda;natronlut

Korttidsgränsvärde (15 minuter) (mg/m³): 2 (inhalerbart damm)

Nivågränsvärde (8 timmar) (mg/m³): 1 (inhalerbart damm)

Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:14) om gränsvärden för luftvägsexponering i arbetsmiljön

DNEL

kaliumhydroxid

Varaktighet:	Exponeringsväg:	DNEL:
Långvarig – Lokala effekter - Allmän befolkning	Inandning	1 mg/m ³
Långvarig – Lokala effekter - Arbetare	Inandning	1 mg/m ³

natriumhydroxid;kaustik soda;natronlut

Varaktighet:	Exponeringsväg:	DNEL:
Långvarig – Systemiska effekter - Allmän befolkning	Hud	2 %
Långvarig – Systemiska effekter - Arbetare	Hud	<2 %
Långvarig – Lokala effekter - Allmän befolkning	Inandning	1 mg/m ³
Långvarig – Lokala effekter - Arbetare	Inandning	1 mg/m ³

PNEC

natriumhydroxid;kaustik soda;natronlut

Exponeringsväg:	Exponeringens varaktighet:	PNEC:
Avloppsreningsverk		51 mg/L
Havsvatten		0.64 mg/L
Jord		0.853 mg/kg TG
Sötvatten		6.4 mg/L

Sötvattenssediment		23 mg/kg TG
Sporadiska utsläpp		3.1 mg/L
Sporadiska utsläpp (havsvatten)		2.3 mg/kg TG

8.2. Begränsning av exponeringen

Efterlevnad av hygieniska gränsvärden bör kontrolleras regelbundet.

Generellt:

Rökning, förtäring av mat och intag av dryck är ej tillåtet i arbetslokalerna.

Exponeringsscenarier:

Det finns inga implementerade exponeringsscenarier för denna produkt.

Exponeringsgräns:

Yrkesmässiga användare omfattas av arbetsmiljölagstiftningens regler om maxkoncentrationer vid exponering. Se de arbetshygieniska gränsvärdena ovan.

Tekniska åtgärder:

Ångbildning måste hållas på ett minimum och under nuvarande gränsvärden (se ovan). Installation av ett lokalt punktutsläpp rekommenderas om normalt luftflöde i arbetsrummet inte är tillräckligt. Se till att ögonsköljning och nöddusch är tydligt markerade.

Se till att stationer för ögontvätt och säkerhetsduschar finns inom nära räckhåll.

Tillämpa standardföreskrifter vid användning av produkten. Undvik inandning av ångor.

Hygieniska åtgärder:

Vid varje paus vid användning av produkten och vid arbetets slut skall de exponerade områdena på kroppen tvättas. Var särskilt noga med händer, underarmar och ansikte.

Begränsning av miljöexponering:

Följ de riskhanteringsåtgärder som ger adekvat kontroll över miljöns exponering för ämnet för de exponeringsscenarier som anges i bilagan till säkerhetsdatabladet (om en sådan bilaga finns).

Individuella skyddsåtgärder

Allmänt:

Använd endast CE-märkt skyddsutrustning.

Andningsskydd:

Typ	Klass	Färg	Standarder	
Andningsskydd behövs inte om ventilationen är tillräcklig.				

Hudskydd:

Rekommenderad	Typ/Kategori	Standarder	
Särskilda arbetskläder bör användas	-	-	

Handskydd:

Arbetssituation	Handskmaterial	Handsktjocklek (mm)	Genombrottstid (min.)	Standarder	
Om exponeringen varar under en längre tid eller koncentrationerna är höga	Nitril	0.4	> 480	EN374-2, EN16523-1, EN388	

Arbetssituation	Handskmaterial	Handsktjocklek (mm)	Genombrottstid (min.)	Standarder	
Om exponeringen varar under en kort tid eller koncentrationerna är låga	Nitril	1,5	> 30	EN374-2, EN16523-1, EN388	

Ögonskydd:

Typ	Standarder	
Använd skyddsglasögon med sidosköld.	EN166	

AVSNITT 9: FYSIKALISKA OCH KEMISKA EGENSKAPER

9.1. Information om grundläggande fysikaliska och kemiska egenskaper

Fysikaliskt tillstånd:

Vätska

Färg:

Svag gult

▼ *Lukt / Lukttröskel (ppm):*

Mild

pH:

13.5

Densitet (g/cm³):

1,29 (20 °C)

Kinematisk viskositet:

Ingen data tillgänglig.

Partikelegenskaper:

Gäller inte för vätskor.

Fas förändringar

Smältpunkt/frys punkt (°C):

Ingen data tillgänglig.

Mjukpunkt/mjukpunktsintervall (°C):

Gäller inte för vätskor.

Kokpunkt (°C):

100

Ångtryck:

Ingen data tillgänglig.

Relativ ångdensitet:

Ingen data tillgänglig.

Sönderdelningstemperatur (°C):

Ingen data tillgänglig.

Data om brand- och explosionsrisker

Flampunkt (°C):

Ingen data tillgänglig.

Brandfarlighet (°C):

Ingen data tillgänglig.

Självantändningstemperatur (°C):

Ingen data tillgänglig.

Explosionsgränser (% v/v):

Ingen data tillgänglig.

Löslighet

Löslighet i vatten:

Fullt lösligt

n-oktanol/vatten koefficient (LogKow):

Ingen data tillgänglig.

Löslighet i fett (g/L):

Ingen data tillgänglig.

9.2. Annan information

Andra fysikaliska och kemiska parametrar:

Ingen data tillgänglig.

Oxiderande egenskaper:

Ingen data tillgänglig.

AVSNITT 10: STABILITET OCH REAKTIVITET

10.1. Reaktivitet

Ingen data tillgänglig.

10.2. Kemisk stabilitet

Produkten är stabil under de förhållanden som anges i avsnitt 7 (Hantering och lagring).

10.3. Risken för farliga reaktioner

Inga kända.

10.4. Förhållanden som ska undvikas

Inga kända.

10.5. Oförenliga material

Starka syror, starka baser, starka oxidationsmedel och starka reduktionsmedel.

10.6. Farliga sönderdelningsprodukter

Termisk sönderdelning kan producera frätande ångor.

AVSNITT 11: TOXIKOLOGISK INFORMATION

11.1. Information om faroklasser enligt förordning (EG) nr 1272/2008

Akut toxicitet

Produkt/Ämne	kaliumhydroxid
Art:	Råtta, hanar
Exponeringsväg:	Oralt
Test:	LD50
Resultat:	333 - 388 mg/kg

Produkt/Ämne	natriumhydroxid;kaustik soda;natronlut

Resultat: 45.4 mg/L

Produkt/Ämne natriumhydroxid;kaustik soda;natronlut
Art: Kanin
Test: LD 50
Resultat: 500 mg/kg

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Frätande/irriterande på huden

Produkt/Ämne iT.33 laundry booster pro
Resultat: Akuta effekter har observerats (Mycket irriterande)

Produkt/Ämne kaliumhydroxid
Resultat: Akuta effekter har observerats (Frätande)

Produkt/Ämne natriumhydroxid;kaustik soda;natronlut
Resultat: Akuta effekter har observerats (Irriterande)

Orsakar allvarliga frätskador på hud och ögon.

Allvarlig ögonskada/ögonirritation

Produkt/Ämne iT.33 laundry booster pro
Resultat: Akuta effekter har observerats (Orsakar allvarliga ögonskador)

Produkt/Ämne kaliumhydroxid
Resultat: Akuta effekter har observerats (Mycket frätande)

Produkt/Ämne natriumhydroxid;kaustik soda;natronlut
Testmetod: OECD 405
Art: Kanin
Resultat: Akuta effekter har observerats (Frätande)

Orsakar allvarliga ögonskador.

Luftvägssensibilisering

Produkt/Ämne kaliumhydroxid
Resultat: Inga skadliga effekter observerades (inte sensibiliserande)

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Hudsensibilisering

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Mutagenitet i könsceller

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Cancerogenitet

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Reproduktionstoxicitet

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Specifik organtoxicitet – enstaka exponering

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Specifik organtoxicitet – upprepad exponering

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

Fara vid aspiration

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

11.2. Information om andra faror

Långsiktiga effekter

Vävnadsskadliga effekter: Produkten innehåller frätande ämnen. Om ånga eller luftburna partiklar inandas kan detta ge skador på lungor och förorsaka irritation och sveda i luftvägarna samt hosta. Frätande ämnen orsakar oåterkalleliga skador på ögonen. Fräter på huden.

Hormonstörande egenskaper

Denna blandning/produkt innehåller inga ämnen som anses ha hormonstörande egenskaper med avseende på hälsan.

Annan information

Inga kända.

AVSNITT 12: EKOLOGISK INFORMATION

12.1. Toxicitet

Produkt/Ämne	iT.33 laundry booster pro
Art:	Andere waterorganismen, Leuciscus idus
Del av miljön:	Vatten
Varaktighet:	96 timmar
Test:	LC50
Resultat:	>100 mg/L

Produkt/Ämne	natriumhydroxid;kaustik soda;natronlut
Art:	Bakterier, Pseudomonas putida
Test:	EC0
Resultat:	>100 mg/L

Produkt/Ämne	natriumhydroxid;kaustik soda;natronlut
Art:	Vattenloppor, Ceriodaphnia dubia
Varaktighet:	48 timmar
Resultat:	40.4 mg/L

Produkt/Ämne	natriumhydroxid;kaustik soda;natronlut
Testmetod:	OECD 203
Art:	Fisk, Oncorhynchus mykiss
Varaktighet:	96 timmar
Test:	LC50
Resultat:	45.4 mg/L

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

12.2. Persistens och nedbrytbarhet

Kriterierna för klassificering kan på grundval av tillgängliga data inte anses vara uppfyllda.

12.3. Bioackumuleringsförmåga

Produkt/Ämne	natriumhydroxid;kaustik soda;natronlut
Slutsats:	Bioackumulering förväntas ej

12.4. Rörlighet i jord

Ingen data tillgänglig.

12.5. Resultat av PBT- och vPvB-bedömningen

Denna blandning/produkt innehåller inga ämnen som anses uppfylla kriterierna för klassificering som PBT- och/eller vPvB-ämnen.

12.6. Hormonstörande egenskaper

Denna blandning/produkt innehåller inga ämnen som anses ha endokrinstörande egenskaper i förhållande till miljön.

12.7. Andra skadliga effekter

Inga kända.

AVSNITT 13: AVFALLSHANTERING

13.1. Avfallsbehandlingsmetoder

Denna produkt omfattas av bestämmelser om farligt avfall. (*)

HP 8 - Frätande

Innehållet/behållaren lämnas till en godkänd avfallsanläggning.

Avfallsförordning (SFS 2020:614).

EWC-kod:

20 01 29* Rengöringsmedel som innehåller farliga ämnen

Förorenad förpackning

Avfallskategorin är vägledande och beror på vilket sätt avfallet har blivit till. Förpackningar med restinnehåll av produkten skall kasseras på samma sätt som produkten.

AVSNITT 14: TRANSPORTINFORMATION

	14.1 UN	14.2 Officiell transportbenämning	14.3 Faroklass för transport	14.4 PG*	14.5 Env**	Annan informatio n:
ADR	UN1719	KAUSTIK ALKALI, FLYTANDE, N.O.S. (kaliumhydroxid, natriumhydroxid;kaustik soda;natronlut)	Klass: 8 Etiketter: 8 Klassificeringskod: C5 	II	Nej	Begränsad e mängder: 1 L Tunnelrestr iktionskod: (E) Se mer informatio n nedan.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klass: 8 Etiketter: 8 Klassificeringskod: C5 	II	Nej	Begränsad e mängder: 1 L EmS: F-A S- B Se mer informatio n nedan.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Klass: 8 Etiketter: 8 Klassificeringskod: C5 	II	Nej	Se mer informatio n nedan.

* Förpackningsgrupp

** Miljöfaror

Annat

Produkten omfattas av konventionerna gällande farligt gods.

ADR / Se Tabell A, Avsnitt 3.2.1 för all information om särskilda villkor, krav eller varningar i samband med transport.

Se avsnitt 5.4.3 för skriftliga instruktioner angående begränsning av skador när det gäller incidenter eller olyckor

under transport.

IMDG / Se Avsnitt 3.2.1 för all information om särskilda villkor, krav eller varningar i samband med transport.

IATA / Se Tabell 4.2 för all information om särskilda villkor, krav eller varningar i samband med transport.

14.6. Särskilda skyddsåtgärder

Ej tillämpligt.

14.7. Bulktransport till sjöss enligt IMO:s instrument

Ingen data tillgänglig.

AVSNITT 15: GÄLLANDE FÖRESKRIFTER

15.1. Föreskrifter/lagstiftning om ämnet eller blandningen när det gäller säkerhet, hälsa och miljö

Användningsrestriktioner:

Endast för yrkesmässigt bruk.

Produkten får ej användas yrkesmässigt av unga under 18 år. Förbudet gäller inte om arbetsuppgiften:

- utförs av ungdomar som har fullgjort gymnasial utbildning eller motsvarande utbildning för uppgiften, eller
- ingår i undervisning som är belägen i en skollokal eller annan plats som är särskilt anordnad för undervisning, eller
- ingår i praktikledda praktikplatser för ungdomar, eller
- är av den art att risken att skadas är minimal.

Krav på särskild utbildning:

Inga särskilda krav.

SEVESO - Farokategorier / Farliga ämnen:

Ej tillämpligt.

Annat:

Privat hantering av produkten krävs tillstånd från Länsstyrelsen.

Källor:

Arbetsmiljöverkets föreskrifter och allmänna råd (AFS 2023:2) om planering och organisering av arbetsmiljöarbete – grundläggande skyldigheter för dig med arbetsgivaransvar

Europaparlamentets och rådets förordning (EG) nr 648/2004 av den 31 mars 2004 om tvätt- och rengöringsmedel.

Avfallsförordning (SFS 2020:614).

Kemikalieinspektionens föreskrifter (KIFS 2017:7) om kemiska produkter och biotekniska organismer

Europaparlamentets och rådets förordning (EG) nr 1272/2008 av den 16 december 2008 om klassificering, märkning och förpackning av ämnen och blandningar (CLP).

Europaparlamentets och rådets förordning (EG) nr 1907/2006 av den 18. december 2006 om registrering, utvärdering, godkännande och begränsning av kemikalier (REACH).

15.2. Kemikaliesäkerhetsbedömning

Nej

AVSNITT 16: ANNAN INFORMATION

Ordalydelse för H-fraser som anges i avsnitt 3

H290, Kan vara korrosivt för metaller.

H302, Skadligt vid förtäring.

H314, Orsakar allvarliga frätskador på hud och ögon.

H315, Irriterar huden.

H318, Orsakar allvarliga ögonskador.

H319, Orsakar allvarlig ögonirritation.

Förkortningar och akronymer

ADR = Europeisk överenskommelse om transport av farligt gods på väg
ATE = Uppskattad akut toxicitet
BCF = Biokoncentrationsfaktor
CAS = Registreringsnummer som tilldelats av Chemical Abstract Services
CE = Conformité Européenne (I överensstämmelse med EU-direktiven)
CLP = Europaparlamentets och rådets förordning (EG) 1272/2009 (CLP) om klassificering, märkning och förpackning av ämnen och blandningar
CSA = Kemikaliesäkerhetsbedömning
CSR = Kemikaliesäkerhetsrapport
DNEL = Härledd noll-effekt nivå (Derived No Effect Level)
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exponeringsscenario
EUH-faroorangivelser = kompletterande faroorangivelser enligt CLP
EuPCS = Det europeiska produktkategoriseringssystemet
EWC = Europeiska avfallskatalogen
GHS = Globalt harmoniserat system för klassificering och märkning av kemiska ämnen och beredningar
GWP = Potential att bidra till växthuseffekten
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logaritmen av fördelningskoefficienten oktanol/vatten
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistenta, bioackumulerande och toxiska
PNEC = Koncentration som sannolikt inte förorsakar negativ effekt
REACH = Registrering, utvärdering, godkännande och begränsning av kemikalier (Förordning (EG) nr 1907/2006)
RRN = REACH registreringsnummer
SCL = Specifik koncentrationsbegränsning.
STOT-RE = Toxicitet för specifikt målorgan - upprepade exponering
STOT-SE = Toxicitet för specifikt målorgan - enstaka exponering
SVHC = Särskilt farliga ämnen
UVBC = Ämnen med okänd eller varierande sammansättning, komplexa reaktionsprodukter eller biologiskt material.
UN = Förenta Nationerna
VOC = Flyktiga organiska ämnen
vPvB = Mycket persistenta och mycket bioackumulerande

Annat

Blandningens klassificering gällande hälsorisker har skett i enlighet med beräkningsmetoder angivna i förordning (EG) nr 1272/2008 (CLP).

Säkerhetsdatabladet är validerat av

Quality & Compliance

Annat

Modifierad data i jämförelse med tidigare utgåva är märkt med en trekant (Första siffran i SDB version).
Upplysningarna i detta säkerhetsdatablad är baserat på vår nuvarande kunskap. Informationen på säkerhetsdatabladet bygger på bästa tillgängliga data och gäller vid produktens avsedda hantering. Detta säkerhetsdatablad avser endast denna produkt och är eventuellt inte tillämpligt om produkten används som ingrediens i annan produkt. Användes produkten på annat sätt eller i annan applikation än den som produkten ursprungligen utvecklats för, eller rekommenderats till, sker detta helt under användarens ansvar. Avsikten med detta säkerhetsdatablad är att beskriva säkerhetskraven för produkten. Det får inte uppfattas som en garanti för produktens egenskaper och informationerna kan inte ersätta ett produktdatablad.
Det rekommenderas att detta säkerhetsdatablad lämnas till den faktiska användaren av produkten.
Land-språk: SE-sv

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name:

iT.33 laundry booster pro

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

14/8/2025

SDS Version:

2.0

Date of previous version:

28/7/2025 (1.0)

Emergency telephone number

In an emergency call 995

In less severe situations call the Drugs & Poison Hotline: 6423 9119

See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to SS 586-2:2022.

Classification of the substance or mixture

Conforms to Singapore Standard SS 586-3:2022

Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.
Eye Dam. 1; H318, Causes serious eye damage.

Label elements

Hazard pictogram(s):



Signal word:
Danger

Hazard statement(s):
May be corrosive to metals. (H290)
Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*
Not applicable.

Prevention:
Do not breathe vapour/mist. (P260)
Wear eye protection/protective gloves/protective clothing. (P280)

Response:
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
(P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. (P305+P351+P338)

Storage:
Store in a container with a resistant inner liner. (P406)

Disposal:
Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:
potassium hydroxide;caustic potash
sodium hydroxide;caustic soda

Additional labelling:
Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable. This product is a mixture.

▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note

Conforms to Singapore Standard SS 586-3:2022

potassium hydroxide;caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	
sodium hydroxide;caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Not applicable.

Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact Drugs & Poison Hotline (tel: 6423 9119) in order to obtain further advice.

Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

potassium hydroxide;caustic potash
Short term PEL (15 minutes) (mg/m³): 2

sodium hydroxide;caustic soda
Short term PEL (15 minutes) (mg/m³): 2

Workplace Safety and Health Act (Chapter 354a, Section 65), Workplace Safety and Health (General Provisions) Regulations (G.N. No. S 134/2006) (Latest revision: January 2023)

Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only protective equipment with a recognized certification mark, e.g. the S-Mark.

Respiratory Equipment:

Conforms to Singapore Standard SS 586-3:2022

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form:

Liquid

Colour:

Pale yellow

▼ *Odour:*

Mild

Odour threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

100

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Evaporation rate (n-butylacetate = 100):

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

Possibility of hazardous reactions

None known.

Conditions to avoid

Conforms to Singapore Standard SS 586-3:2022

None known.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Conforms to Singapore Standard SS 586-3:2022

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

Persistence and degradability

Based on available data, the classification criteria are not met.

Conforms to Singapore Standard SS 586-3:2022

Bioaccumulative potential

Product/substance sodium hydroxide;caustic soda
Conclusion: Bioaccumulation is not expected

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of contents/container to an approved waste disposal plant.
Environmental Protection and Management Act 1999 (2020 Rev. Ed.)

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5	II	No	See below for additional informatio n.

Conforms to Singapore Standard SS 586-3:2022

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
						

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2R

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education:

No specific requirements.

Major hazard installation:

Not applicable.

Additional information:

Not applicable.

Sources:

Employment Act 1968 (2020 Rev. Ed.)

Environmental Protection and Management Act 1999 (2020 Rev. Ed.)

Environmental Protection and Management Act (Chapter 94a, Section 77), Environmental Protection and Management (Hazardous Substances) Regulations (No. S 159/1999)

Globally Harmonized System of Classification and Labelling of Chemicals (GHS Rev. 8, 2019) as specified by SS 586-2 and SS 586-3:2022.

Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

Conforms to Singapore Standard SS 586-3:2022

H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
EINECS = European Inventory of Existing Commercial chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PEL = Permissible Exposure Level
RCM = Regulatory Mark of Conformity
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL = A specific concentration limit
SS = Singapore Standard
STEL = Short-term exposure limits
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by SS 586-2:2022.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: SG-en

VARNOSTNI LIST

iT.33 laundry booster pro

ODDELEK 1: IDENTIFIKACIJA SNOVI/ZMESI IN DRUŽBE/PODJETJA

1.1. Identifikator izdelka

Trgovsko ime:

iT.33 laundry booster pro

Enolični identifikator formule (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Pomembne identificirane uporabe snovi ali zmesi in odsvetovane uporabe

Pomembne identificirane uporabe snovi ali zmesi:

Detergenti in čistilna sredstva (vključno s tistimi na osnovi topil)

Samo za poklicne uporabnike.

Odsvetovane uporabe:

Ni znano.

1.3. Podrobnosti o dobavitelju varnostnega lista

Podjetje in naslov podjetja:

Hygeniq B.V.

Lenteweg 15

7532 RV Enschede

Nederland

0534282860

E-pošta:

info@hygeniq.com

Sprememba:

14. 08. 2025

Različica SDS:

2.0

Datum prejšnje izdaje:

28. 07. 2025 (1.0)

1.4. Telefonska številka za nujne primere

112

Glejte oddelek 4 "Ukrepi za prvo pomoč"

ODDELEK 2: DOLOČITEV NEVARNOSTI

Razvrščeno glede na Uredbo (ES) št. 1272/2008 (CLP).

2.1. Razvrstitev snovi ali zmesi

Met. Corr. 1; H290, Lahko je jedko za kovine.

Skin Corr. 1A; H314, Povzroča hude opekline kože in poškodbe oči.

Eye Dam. 1; H318, Povzroča hude poškodbe oči.

2.2. Elementi etikete

Piktogram(i) za nevarnost:



Opozorilna beseda:

Nevarno

Stavki o nevarnosti:

Lahko je jedko za kovine. (H290)

Povzroča hude opekline kože in poškodbe oči. (H314)

Previdnostni stavki:

▼ Splošno:

Se ne uporablja.

Preprečevanje:

Ne vdihavati hlapi/megla. (P260)

Nositi zaščita za oči/zaščitne rokavice/zaščitna oblačila. (P280)

▼ Odgovor:

PRI STIKU S KOŽO (ali lasmi): Takoj sleči vsa kontaminirana oblačila. Kožo izprati z vodo ali prho.

(P303+P361+P353)

PRI STIKU Z OČMI: Previdno izpirati z vodo nekaj minut. Odstranite kontaktne leče, če jih imate in če to lahko storite brez težav. Nadaljujte z izpiranjem. (P305+P351+P338)

Takoj pokličite CENTER ZA ZASTRUPITVE/zdravnik. (P310)

Shramba:

Hraniti v posodi, z odporno notranjo oblogo. (P406)

Odstranjevanje:

Odstraniti vsebino/posodo v skladu z lokalnimi predpisi (P501)

Identiteta snovi, ki so primarno odgovorne za večja zdravstvena tveganja:

kalijev hidroksid;jedek kalij

natrijev hidroksid;kaustična soda

Dodatno označevanje:

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Druge nevarnosti

Dodatna opozorila:

Mešanica/izdelek ne vsebuje nobenih snovi, ki izpolnjujejo merila za razvrstitev kot PBT in/ali vPvB.

Ta proizvod ne vsebuje nobenih snovi, za katere se šteje, da so endokrini motilci v skladu z merili, določenimi v Delegirani uredbi Komisije (EU) 2017/2100 ali Uredbi Komisije (EU) 2023/707.

ODDELEK 3: SESTAVA/PODATKI O SESTAVINAH

3.1. Snovi

Se ne uporablja. Ta proizvod je mešanica.

3.2. ▼ Zmesi

Izdelek/sestavina	Identifikatorji	% w/w	Razvrstitev	Opombe

kalijev hidroksid;jedek kalij	Št. CAS: 1310-58-3 Št. ES: 215-181-3 REACH: Indeksna št.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
natrijev hidroksid;kaustična soda	Št. CAS: 1310-73-2 Št. ES: 215-185-5 REACH: 01-2119457892-27-XXXX Indeksna št.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Poglejte celotno besedilo o H-stavkih v oddelek 16. Mejne vrednosti poklicne izpostavljenosti so našteve v oddelek 8, če so na voljo.

Druge informacije

-

ODDELEK 4: UKREPI ZA PRVO POMOČ

4.1. Opis ukrepov za prvo pomoč

Splošne informacije:

V primeru nesreče: Stopite v stik z zdravnikom ali urgenco - vzemite nalepko ali ta varnostni list s sabo. Posvetujte z zdravnikom, če ste v dvomih o stanju poškodovanca ali če simptomi ne izginejo. Nikoli ne dajajte nezavestni osebi vode ali podobno.

Vdihavanje:

Ob težavah z dihanjem ali draženju dihal: Pospremite osebo na svež zrak in ostanite tam z njo.

Stik s kožo:

Izpostavljeno območje dolgo časa izpirajte z vodo – najmanj 30 minut. Morda je potrebno večurno izpiranje. Uporabite vodo prijetne temperature (20-30 °C). Za dodatne nasvete glede nadaljnjega ukrepanja in zdravljenja se obrnite na informacijski center za zastrupitve/zdravnika/bolnišnico.

Hkrati odstranite kontaminirana oblačila ter obutev. Kožo, ki je bila v stiku z materialom, je treba temeljito sprati z vodo in milom. Lahko se uporabi čistilo za kožo. NE UPORABLJAJTE topil in razredčil.

Če nastopi draženje kože: poiščite zdravniško pomoč/oskrbo.

Stik z očmi:

Pri stiku z očmi: Oči spirajte z obilo vode ali slano raztopino (20-30 ° C) vsaj 30 minut in nadaljujte dokler draženje ne poneha. Odstranite kontaktne leče. Poskrbite, da sperete prostor pod zgornjo in spodnjo veko. Takoj poiščite zdravniško pomoč in nadaljujte z izpiranjem med prevozom.

Zaužitje:

V primeru zaužitja, se takoj posvetujte z zdravnikom. Če je oseba pri zavesti, ji dajte vodo. NE poskušajte izzvati bruhanja, razen če to priporoči zdravnik. Držite poškodovančevo glavo obrnjeno navzdol, tako da ne izbljuvek ne teče nazaj v usta in grlo. Preprečite šok in ohranite poškodovano osebo na toplem in umirjeno. Če poškodovanec preneha dihati, izvajajte oživiljanje usta na usta. Če je oseba v nezavesti, jo prevrnite na stran z zgornjo nogo, upognjeno tako v kolenu, kot v kolku. Pokličite reševalce.

Opekline:

Se ne uporablja.

4.2. Najpomembnejši simptomi in učinki, akutni in zapozneli

Škodljivi učinki za tkivo: Ta izdelek vsebuje snovi, ki so jedke. Če se hlapi ali razpršila vdihavajo, lahko pride do poškodb pljuč, draženja in opeklin v dihalnih organih, kot tudi do kašljanja. Jedke snovi povzročijo nepopravljivo škodo na očeh in opekline s kislino na koži.

4.3. Navedba kakršne koli takojšnje medicinske oskrbe in posebnega zdravljenja

PRI izpostavljenosti ali sumu izpostavljenosti:

Takoj poiščite zdravniško pomoč/oskrbo.

Navodila medicinskemu osebju

Prinesite ta varnostnega lista ali etiketo z materiala.

ODDELEK 5: PROTIPOŽARNI UKREPI

5.1. Sredstva za gašenje

Se ne uporablja.

5.2. Posebne nevarnosti v zvezi s snovjo ali zmesjo

Ob izbruhu ognja pride do gostega dima. Izpostavljenost kataboličnim izdelkom lahko škoduje vašemu zdravju. Zaprte posode, ki so izpostavljene ognju, je treba ohladiti z vodo. Preprečite, da bi voda, s katero je bil gašen požar, iztekala v kanalizacijo in druge vodotoke.

Če je izdelek izpostavljen visokim temperaturam, kot v primeru požara, se proizvedejo nevarne katabolne snovi. To so: Nekateri kovinski oksidi

5.3. Nasvet za gasilce

Za preprečitev stika, nosite samozadosten dihalni aparat in zaščitno obleko.

ODDELEK 6: UKREPI OB NENAMERNIH IZPUSTIH

6.1. Osebni varnostni ukrepi, zaščitna oprema in postopki v sili

Izogibajte se neposrednemu stiku z razlitimi snovmi.

Zagotovite ustrezno prezračevanje, predvsem v zaprtih prostorih.

Kontaminirana območja so lahko spolzka.

6.2. Okoljevarstveni ukrepi

Izogibajte se izpustom v jezera, potoke, kanalizacijo, itd.

Nepooblaščen osebe naj se ne približujejo razlitju

6.3. Metode in materiali za zadrževanje in čiščenje

Razlitje omejite in zberite z nevnetljivim, vpojnim materialom, npr. peskom, zemljo, vermikulitom ali diatomejsko zemljo, in dajte v posodo za odlaganje v skladu z lokalnimi predpisi.

Počistiti je potrebno v največji možni meri, z uporabo običajnih čistil. Izogibati se je potrebno topilom.

6.4. Sklicevanje na druge oddelke

Glejte oddelek 13 "Odstranjevanje" za ravnanje z odpadki.

Za zaščitne ukrepe glejte oddelek 8 "Nadzor izpostavljenosti/osebna zaščita".

ODDELEK 7: RAVNANJE IN SKLADIŠČENJE

7.1. Varnostni ukrepi za varno ravnanje

Izogibajte se neposrednemu kontaktu z izdelkom.

V delovnih prostorih ni dovoljeno kajenje, uživanje hrane ali tekočine in shranjevanje tobaka, hrane ali tekočine.

Glejte oddelek "Nadzor izpostavljenosti/osebna zaščita" za informacije glede osebne zaščite.

7.2. Pogoji za varno skladiščenje, vključno z nezdružljivostjo

Posode, ki so bile odprte, se morajo previdno zatesniti in hraniti v pokončnem položaju, da se prepreči iztekanje.

Hraniti v posodi, z odporno notranjo oblogo.

Združljivostjo embalaže:

Hraniti samo v originalni embalaži.

Pogji skladiščenja:

Suho, hladno in dobro prezračeno

Nezdružljivi materiali:

Močne kisline, močne baze, močni oksidanti in močni reducenti.

7.3. Posebne končne uporabe

Ta izdelek se sme uporabljati le za uporabe, opisane v oddelek 1.2.

ODDELEK 8: NADZOR IZPOSTAVLJENOSTI/OSEBNA ZAŠČITA

8.1. Parametri nadzora

natrijev hidroksid;kaustična soda

Kratkotrajna vrednost (15 min) (KTV) (mg/m³): 1

Mejne vrednosti (8 ur) (MV) (mg/m³): 2 (I)

Opombe:

Y = Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT-vrednosti.

1602. Pravilnik o spremembah in dopolnitvah Pravilnika o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu, stran 4251.

DNEL

kalijev hidroksid;jedek kalij

Trajanje:	Način izpostavljenosti:	DNEL:
Dolgoročno - lokalni učinki - delavci	Inhalacija	1 mg/m ³
Dolgoročno - lokalni učinki - splošna populacija	Inhalacija	1 mg/m ³

natrijev hidroksid;kaustična soda

Trajanje:	Način izpostavljenosti:	DNEL:
Dolgoročno - sistemski učinki - delavci	Dermalno	<2 %
Dolgoročno - sistemski učinki - splošna populacija	Dermalno	2 %
Dolgoročno - lokalni učinki - delavci	Inhalacija	1 mg/m ³
Dolgoročno - lokalni učinki - splošna populacija	Inhalacija	1 mg/m ³

PNEC

natrijev hidroksid;kaustična soda

Način izpostavljenosti:	Trajanje izpostavljenosti:	PNEC:
Morska voda		0.64 mg/L
Naprava za čiščenje odplak		51 mg/L
Občasno spuščanje		3.1 mg/L
Občasno spuščanje (morska voda)		2.3 mg/kg TG
Sladka voda		6.4 mg/L
Sladkovona usedlina		23 mg/kg TG
Tla		0.853 mg/kg TG

8.2. Nadzor izpostavljenosti

Skladnost z navedenimi vrednostmi omejitev ob izpostavljenosti, je treba redno preverjati.

Splošna priporočila:

V delovnih prostorih ni dovoljeno kajenje, uživanje hrane ali tekočine in shranjevanje tobaka, hrane ali tekočine.

Scenariji izpostavljenosti:

Za ta izdelek ni scenarijev izpostavljenosti.

Omejitve izpostavljenosti:

Trgovci so zajeti v pravilih zakonodaje delovnega okolja glede najvišjih dovoljenih koncentracij izpostavljenosti.

Zgoraj si oglejte mejne vrednosti delovne higiene.

Primerni tehnični ukrepi:

Nastajanje pare naj bo minimalno in pod vrednostmi trenutne omejitve (glejte zgoraj.). Če v delovnem prostoru ni zadostnega normalnega zračnega pretoka, je priporočena namestitev lokalnega izpušnega sistema. Prepričajte se, da so zasilne enote za izpiranje oči in prhe jasno označene.

Poskrbite, da so na zlahka dosegljivih mestih postaje za umivanje oči in varnostne prhe.

Med uporabo izdelka upoštevajte varnostne ukrepe. Izogibajte se vdihavanju hlapov.

Higienski ukrepi:

Kadarkoli si vzamete premor ob uporabi tega izdelka in ko ga prenehate uporabljati, je potrebno oprati vse izpostavljene površine telesa. Bodite posebej pozorni na roke, podlakti in obraz.

Ukrepi, da se prepreči okoljska izpostavljenost:

Zaježitvene materiale hranite v bližini delovnega mesta. Če je mogoče, popivajte razlitje med delom.

Posamezni varnostni ukrepi, kot na primer osebna zaščitna oprema

Na splošno:

Uporabljajte samo zaščitno opremo z oznako CE.

Dihalna oprema:

Tip	Razred	Barva	Standarde	
V primeru ustreznega prezračevanja ni potrebna uporaba zaščitne dihal				

Zaščita kože:

Priporočeno	Tipa/Kategorije	Standarde	
Uporabljajte posebno delovno obleko	-	-	

Zaščita za roke:

Okoliščine na delovnem mestu	Material	Debelina rokavice (mm)	Čas prodiranja (min.)	Standarde	
V primeru dolgotrajne izpostavljenosti ali pri visokih koncentracijah	Nitrilna guma	0,4	> 480	EN374-2, EN16523-1, EN388	
V primeru kratkotrajne izpostavljenosti ali pri nizkih koncentracijah	Nitrilna guma	1,5	> 30	EN374-2, EN16523-1, EN388	

Zaščita za oči:

Tip	Standarde	
Nosite varnostna očala s stranskimi ščitniki.	EN166	

ODDELEK 9: FIZIKALNE IN KEMIJSKE LASTNOSTI

9.1. Podatki o osnovnih fizikalnih in kemijskih lastnostih

Oblika:

Tekoč

Barva:

Bledo rumen

▼ *Vonj / Mejne vrednosti vonja (ppm):*

Blag

pH:

13.5

Gostota (g/cm³):

1,29 (20 °C)

Kinematična viskoznost:

Podatki niso na voljo.

Lastnosti delcev:

Se ne uporablja za tekočine.

Spremembe faz

Tališče/ledišče (°C):

Podatki niso na voljo.

Zmehčišče (voskih in pastah) (°C):

Se ne uporablja za tekočine.

Vreliščna točka (°C):

100

Pritisk pare:

Podatki niso na voljo.

Relativna parna gostota:

Podatki niso na voljo.

Temperatura razpadanja (°C):

Podatki niso na voljo.

Podatki o nevarnostih požara in eksplozije

Plamenišče (°C):

Podatki niso na voljo.

Vnetljivost (°C):

Podatki niso na voljo.

Temperatura samovžiga (°C):

Podatki niso na voljo.

Omejitev eksplozije (Vol %):

Podatki niso na voljo.

Topnost

Topnost v vodi:

Povsem topno

n-oktanol / vodni koeficient (LogKow):

Podatki niso na voljo.

Topnost v maščobi (g/L):

Podatki niso na voljo.

9.2. Drugi podatki

Drugi fizikalni in kemijski parametri:

Podatki niso na voljo.

Oksidacijske lastnosti:

Podatki niso na voljo.

ODDELEK 10: OBSTOJNOST IN REAKTIVNOST

10.1. Reaktivnost

Podatki niso na voljo.

10.2. Kemijska stabilnost

Izdelek je stabilen v pogojih, ki so navedeni v oddelek 7 "Ravnanje in skladiščenje".

10.3. Možnost poteka nevarnih reakcij

Ni znano.

10.4. Pogoji, ki se jim je treba izogniti

Ni znano.

10.5. Nezdružljivi materiali

Močne kisline, močne baze, močni oksidanti in močni reducenti.

10.6. Nevarni produkti razgradnje

Toplotna razgradnja lahko povzroči korozivne hlapne.

ODDELEK 11: TOKSIKOLOŠKI PODATKI

11.1. Podatki o razredih nevarnosti, kakor so opredeljeni v Uredbi (ES) št. 1272/2008

Akutna toksičnost

Izdelek/sestavina	kalijev hidroksid;jedek kalij
Vrste:	Podgana, moškega
Način izpostavljenosti:	Oralno
Test:	LD50
Rezultat:	333 - 388 mg/kg

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Rezultat:	45.4 mg/L

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Vrste:	Zajec
Test:	LD lo
Rezultat:	500 mg/kg

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Jedkost / draženje kože

Izdelek/sestavina Rezultat:	iT.33 laundry booster pro Ugotovljeni škodljivi učinki (Zelo draži)

Izdelek/sestavina Rezultat:	kalijev hidroksid;jedek kalij Ugotovljeni škodljivi učinki (Jedko)

Izdelek/sestavina Rezultat:	natrijev hidroksid;kaustučna soda Ugotovljeni škodljivi učinki (Draži)

Povzroča hude opekline kože in poškodbe oči.

Resna poškodba/draženje oči

Izdelek/sestavina Rezultat:	iT.33 laundry booster pro Ugotovljeni škodljivi učinki (Povzroča hude poškodbe oči)

Izdelek/sestavina Rezultat:	kalijev hidroksid;jedek kalij Ugotovljeni škodljivi učinki (Zelo jedko)

Izdelek/sestavina Testni metoda: Vrste: Rezultat:	natrijev hidroksid;kaustučna soda OECD 405 Zajec Ugotovljeni škodljivi učinki (Jedko)

Povzroča hude poškodbe oči.

Preobčutljivost dihal

Izdelek/sestavina Rezultat:	kalijev hidroksid;jedek kalij Škodljivi učinki niso bili ugotovljeni (ne senzibilizira)

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Preobčutljivost kože

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Mutagenost zarodnih celic

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Rakotvornost

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Razmnoževalna toksičnost

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

STOT-enkratna izpostavljenost

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

STOT-ponavljajoča izpostavljenost

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

Nevarnost pri vdihavanju

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

11.2. Podatki o drugih nevarnostih

Dolgoročni učinki

Škodljivi učinki za tkivo: Ta izdelek vsebuje snovi, ki so jedke. Če se hlapi ali razpršila vdihavajo, lahko pride do poškodb pljuč, draženja in opeklin v dihalnih organih, kot tudi do kašljanja. Jedke snovi povzročijo nepopravljivo škodo na očeh in opekline s kislino na koži.

Lastnosti endokrinih motilcev

Ta mešanica/izdelek ne vsebuje nobene snovi, za katero se šteje, da ima lastnosti hormonskega motilca v zvezi z zdravjem

Drugi podatki

Ni znano.

ODDELEK 12: EKOLOŠKI PODATKI

12.1. Strupenost

Izdelek/sestavina	iT.33 laundry booster pro
Vrste:	Andere waterorganismen, Leuciscus idus
Oddelek okolja:	Voda
Trajanje:	96 ur
Test:	LC50
Rezultat:	>100 mg/L

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Vrste:	Bakterije, Pseudomonas putida
Test:	EC0
Rezultat:	>100 mg/L

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Vrste:	Vodna bolha, Ceriodaphnia dubia
Trajanje:	48 ur
Rezultat:	40.4 mg/L

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Testni metoda:	OECD 203
Vrste:	Riba, Oncorhynchus mykiss
Trajanje:	96 ur
Test:	LC50
Rezultat:	45.4 mg/L

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

12.2. Obstočnost in razgradljivost

Na podlagi razpoložljivih podatkov merila za razvrstitev niso izpolnjena.

12.3. Zmožnost kopičenja v organizmih

Izdelek/sestavina	natrijev hidroksid;kaustična soda
Zaključek:	Bioakumulacija ni pričakovana

12.4. Mobilnost v tleh

Podatki niso na voljo.

12.5. Rezultati ocene PBT in vPvB

Mešanica/izdelek ne vsebuje nobenih snovi, ki izpolnjujejo merila za razvrstitev kot PBT in/ali vPvB.

12.6. Lastnosti endokrinih motilcev

Ta mešanica/izdelek ne vsebuje nobene snovi, za katero se šteje, da ima lastnosti endokrinega motilca v zvezi z okoljem.

12.7. Drugi škodljivi učinki

Ni znano.

ODDELEK 13: ODSTRANJEVANJE

13.1. Metode ravnanja z odpadki

Izdelek je zajet v predpisih o nevarnih odpadkih. (*)
HP 8 - Jedko

Odstraniti vsebino/posodo pooblaščenemu obratu za odstranitev odpadkov.

Uredba (EU) št. 1357/2014 z dne 18. decembra 2014 o odpadkih.

EWC koda:

20 01 29* čistila, ki vsebujejo nevarne snovi

Kontaminirana embalaža

Embalažo, ki vsebuje ostanke iz izdelka, je treba odstraniti na enak način, kot izdelek.

ODDELEK 14: PODATKI O PREVOZU

	14.1 ZN	14.2 Pravilno odpremno ime ZN	14.3 Razredi nevarnosti prevoza	14.4 PG*	14.5 Env**	Druge informacij e:
ADR	UN1719	JEDKA ALKALNA TEKOCINA, N.D.N. (kalijev hidroksid;jedek kalij, natrijev hidroksid;kaustična soda)	Razred: 8 Nalepke nevarnosti: 8 Razvrstitveni kod: C5 	II	Ne	Omejene količine: 1 L Kod omejitve za predore: (E) Za dodatne informacije glejte spodaj.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Razred: 8 Nalepke nevarnosti: 8 Razvrstitveni kod: C5 	II	Ne	Omejene količine: 1 L EmS: F-A S-B Za dodatne informacije glejte spodaj.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Razred: 8 Nalepke nevarnosti: 8 Razvrstitveni kod: C5 	II	Ne	Za dodatne informacije glejte spodaj.

* Skupina embalaže

** Nevarnosti za okolje

Dodatne informacije

Ta izdelek je zajet v konvencijah o nevarnem blagu.

ADR / Glejte preglednico A, oddelek 3.2.1 za vse informacije o posebnih določbah, zahtevah ali opozorilih v zvezi s transportom. Glejte odelek 5.4.3 za pisna navodila glede omejitve škode v zvezi z incidenti ali nesrečami med transportom.

IMDG / Glejte oddelek 3.2.1 za vse informacije o posebnih določbah, zahtevah ali opozorilih v zvezi s transportom.

IATA / Glejte preglednico 4.2 za vse informacije o posebnih določbah, zahtevah ali opozorilih v zvezi s transportom.

14.6. Posebni previdnostni ukrepi za uporabnika

Se ne uporablja.

14.7. Pomorski prevoz v razsutem stanju v skladu z instrumenti IMO

Podatki niso na voljo.

ODDELEK 15: ZAKONSKO PREDPISANI PODATKI

15.1. Predpisi/zakonodaja o zdravju, varnosti in okolju, specifični za snov ali zmes

Omejitve za uporabo:

Samo za poklicne uporabnike.

Osebe, mlajše od 18 let, ne smejo biti izpostavljene tem izdelku.

Zahteve za posebno izobraževanje:

Ni posebnih zahtev.

SEVESO - Kategorije nevarnih snovi / Imenovane nevarne snovi:

Se ne uporablja.

Dodatne informacije:

Se ne uporablja.

Viri:

Zakon o delovnih razmerjih (ZDR-1).

Uredba (ES) št. 648/2004 Evropskega parlamenta in Sveta z dne 31. marca 2004 o detergentih.

Uredba (EU) št. 1357/2014 z dne 18. decembra 2014 o odpadkih.

Uredba (ES) št. 1272/2008 Evropskega parlamenta in Sveta z dne 16. decembra 2008 o razvrščanju, označevanju in pakiranju snovi ter zmesi (CLP).

Uredba (ES) št. 1907/2006 Evropskega Parlamenta in Sveta z dne 18. decembra 2006 o registraciji, evalvaciji, avtorizaciji in omejevanju kemikalij (REACH).

15.2. Ocena kemijske varnosti

Ne

ODDELEK 16: DRUGI PODATKI

Celotno besedilo o H-stavkih, kot je omenjeno v oddelek 3

H290, Lahko je jedko za kovine.

H302, Zdravju škodljivo pri zaužitju.

H314, Povzroča hude opekline kože in poškodbe oči.

H315, Povzroča draženje kože.

H318, Povzroča hude poškodbe oči.

H319, Povzroča hudo draženje oči.

Okrajšave in akronimi

ADN = Evropski sporazum o mednarodnem prevozu nevarnih snovi po celinskih vodah/po Renu

ADR = Evropski sporazum o mednarodnem cestnem prevozu nevarnega blaga

ATE = ocena akutne strupenosti

BCF = biokoncentracijski faktor

CAS = Služba za izmenjavo kemijskih izvlečkov

CE = Evropska skladnost

CLP = Uredba (ES) št. 1272/2008 o razvrščanju, označevanju in pakiranju snovi ter zmesi

CSA = Ocena kemijske varnosti

CSR = Poročilo o kemijski varnosti

DNEL = Izpeljana raven brez učinka

EINECS = Evropski seznam kemičnih snovi, ki so na trgu

ES = Scenarij izpostavljenosti

EUH = CLP - specifičen stavek nevarnosti

EuPCS = Evropski sistem kategorizacije proizvodov

EWC = Evropski katalog odpadkov

GHS = Globalno usklajen sistem Združenih narodov za razvrščanje in označevanje kemikalij

GWP = Potencial globalnega segrevanje
HOS = Hlapna organska snov
IATA = Mednarodno združenje letalskih prevoznikov
IMDG = Mednarodni kodeks o prevozu nevarnega blaga po morju
LogPow = logaritem porazdelitvenega koeficienta oktanol/voda
MARPOL = Mednarodna konvencija o preprečevanju onesnaževanja morja z ladij, 1973, in njen Protokol iz leta 1978
MV = časovna povprečna
OECD = Organizacija za gospodarsko sodelovanje in razvoj
PBT = Obstojen, bioakumulativen in strupen
PNEC = predvidena koncentracija brez učinka
RID = Pravilnik o mednarodnem železniškem prevozu nevarnega blaga
RRN = Registracijska številka REACH
SCL = Posebne mejne koncentracije.
SVHC = snov, ki vzbuja veliko zaskrbljenost
STOT-RE = Specifična strupenost za ciljne organe - ponavljajoča se izpostavljenost
STOT-SE = Specifična strupenost za ciljne organe - enkratna izpostavljenost
UVCB = Pomeni snovi z neznano ali spremenljivo sestavo, kompleksne reakcijske produkte ali biološke materiale.
vPvB = zelo obstojen in zelo bioakumulativen
ZN = Združeni narodi

Dodatne informacije

Razvrstitev zmesi v zvezi z nevarnostmi za zdravje je v skladu z metodami izračuna, določenimi z Uredbo (ES) št. 1272/2008 (CLP).

Varnostnega lista je ovrednotil

Quality & Compliance

Drugo

Sprememba (v razmerju do zadnje bistvene spremembe (prva številka v različici SDS)) je označena z trikotnikom.
Podatki v tem varnostnega lista, veljajo samo za ta poseben izdelek (navedeno v oddelek 1) in niso nujno primerni za uporabo z drugimi kemikalijami/izdelki.
Priporočljivo je, da se izroči ta varnostnega lista dejanskemu uporabniku izdelka. Podatki v tem varnostnem listu se ne morejo uporabljati kot specifikacija izdelka.
Država-jezik: SI-sl

KARTA BEZPEČNOSTNÝCH ÚDAJOV

iT.33 laundry booster pro

ODDIEL 1: IDENTIFIKÁCIA LÁTKY/ZMESI A SPOLOČNOSTI/PODNIKU

1.1. Identifikátor produktu

Názov produktu:

iT.33 laundry booster pro

Jedinečný identifikátor vzorca (UFI):

EMGV-AVQ8-YF2J-F4QE

1.2. Relevantné identifikované použitia látky alebo zmesi a použitia, ktoré sa neodporúčajú

Relevantné identifikované použitia látky alebo zmesi:

Čistiace a čistiacie prostriedky (vrátane tých na báze rozpúšťadiel)

Len na odborné použitie.

Neodporúčané spôsoby použitia:

Žiadne známe.

1.3. Údaje o dodávateľovi karty bezpečnostných údajov

Spoločnosť a adresa:

Hygieniq B.V.

Lenteweg 15

7532 RV Enschede

Nederland

0534282860

E-mail:

info@hygieniq.com

Revízia:

14. 8. 2025

Verzia KBÚ:

2.0

Dátum predchádzajúceho vydania:

28. 7. 2025 (1.0)

1.4. Núdzové telefónne číslo

Použite vaše štátne +421 2 5477 4166 alebo miestne tiesňové číslo.

Pozri oddiel 4 "Opatrenia prvej pomoci".

ODDIEL 2: IDENTIFIKÁCIA NEBEZPEČNOSTI

Klasifikovaný podľa nariadenia (ES) č. 1272/2008 (CLP).

2.1. Klasifikácia látky alebo zmesi

Met. Corr. 1; H290, Môže byť korozívna pre kovy.

Skin Corr. 1A; H314, Spôsobuje vážne poleptanie kože a poškodenie očí.

Eye Dam. 1; H318, Spôsobuje vážne poškodenie očí.

2.2. Prvky označovania

Výstražný/-é piktogram/-y:



Výstražné slová:

Nebezpečenstvo

Výstražné upozornenie/-a:

Môže byť korozívna pre kovy. (H290)

Spôsobuje vážne poleptanie kože a poškodenie očí. (H314)

Bezpečnostné upozornenia:

▼ Všeobecné:

Nerelevantné.

Prevenia:

Nevdychujte pary/hmla. (P260)

Noste ochranné okuliare/ochranné rukavice/ochranný odev. (P280)

▼ Odozva:

PRI KONTAKTE S POKOŽKOU (alebo vlasmi): Vyzlečte všetky kontaminované časti odevu. Pokožku ihneď opláchnite vodou alebo sprchou. (P303+P361+P353)

PO ZASIAHNUTÍ OČÍ: Niekoľko minút ich opatrne vyplachujte vodou. Ak používate kontaktné šošovky a je to možné, odstráňte ich. Pokračujte vo vyplachovaní. (P305+P351+P338)

Okamžite volajte NÁRODNÉ TOXIKOLOGICKÉ INFORMAČNÉ CENTRUM/lekára. (P310)

Uchovávanie:

Uchovávať v nádobe s odolnou vnútornou vrstvou. (P406)

Zneškodňovanie:

Zneškodnite obsah/nádobu v súlade s miestnymi predpismi (P501)

Identifikácia látok primárne zodpovedných za hlavné zdravotné riziká:

hydroxid draselný;lúh draselný

hydroxid sodný;lúh sodný

Ďalšie označovanie (etiketácia):

UFI: EMGV-AVQ8-YF2J-F4QE

2.3. Iná nebezpečnosť

Ďalšie upozornenia:

Táto zmes/tento výrobok neobsahuje žiadne látky považované za také, ktoré by spĺňali kritériá na ich klasifikáciu ako PBT a/alebo vPvB.

Tento výrobok neobsahuje žiadne látky považované za endokrinné disruptory v súlade s kritériami stanovenými v delegovanom nariadení Komisie (EÚ) 2017/2100 alebo v nariadení Komisie (EÚ) 2023/707.

ODDIEL 3: ZLOŽENIE/INFORMÁCIE O ZLOŽKÁCH

3.1. Látky

Nerelevantné. Tento výrobok je zmes.

3.2. ▼ Zmesi

Výrobok/prísada	Identifikácia	% w/w	Klasifikácia	Názov komponentu
hydroxid draselný;lúh draselný	Č. CAS: 1310-58-3 Č. EC: 215-181-3 REACH: Indexové č.: 019-002-00-8	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
hydroxid sodný;lúh sodný	Č. CAS: 1310-73-2 Č. EC: 215-185-5 REACH: 01-2119457892-27-XXXX Indexové č.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Pozri plné znenie H-viet v oddiele 16. Limity v pracovnom prostredí sú uvedené v oddiele 8, ak sú k dispozícii.

Ďalšie informácie

-

ODDIEL 4: OPATRENIA PRVEJ POMOCI

4.1. Opis opatrení prvej pomoci

Všeobecné informácie:

V prípade nehody: Vyhľadajte lekára alebo pohotovostnú službu - vezmite si so sebou etiketu alebo tento bezpečnostný list.

Kontaktujte lekára, ak máte pochybnosti o stave postihnutej osoby alebo ak príznaky pretrvávajú. Nikdy nedávajte osobe v bezvedomí vodu ani iné tekutiny.

Vdýchnutie:

Pri dýchacích ťažkostiach alebo podráždení dýchacích ciest: Premiestnite postihnutého na čerstvý vzduch a zostaňte pri ňom.

Styk s pokožkou:

Dlhodobá - najmenej 30 minút - oplachujte exponované miesto vodou. Môže byť potrebné oplachovať niekoľko hodín. Používajte príjemnú teplotu vody (20 až 30 °C). Obráťte sa na toxikologické informačné centrum/lekárnik/nemocnicu, kde vám poskytnú ďalšie informácie o ďalšom postupe a liečbe.

Ihneď sa zbavte kontaminovaného odevu a obuvi. Miesta pokožky, ktoré sa dostali do styku s materiálom, umyte dôkladne vodou a mydlom. Môžete použiť pletový čistiaci prípravok. NEPOUŽÍVAJTE rozpúšťadlá ani riedidlá.

Ak sa objaví podráždenie pokožky, vyhľadajte lekársku pomoc/starostlivosť.

Zasiahnutie očí:

Po zasiahnutí očí: Vyplachujte oči veľkým množstvom vody (20 - 30 °C) minimálne po dobu 30 minút a pokračujte, až kým podráždenie neprestane. Vyberte kontaktné šošovky. Uistite sa, že ste si vypláchli aj miesta pod hornými a dolnými viečkami. Okamžite kontaktujte lekára. Okamžite vyhľadajte lekársku pomoc a počas dopravy pokračujte vo vyplachovaní.

Požitie:

V prípade požitia vyhľadajte ihneď lekára. Ak je postihnutý pri vedomí, dajte mu vodu. NEPOKÚŠAJTE sa vyvolať zvracanie, ak vám to neodporučí lekár. Držte hlavu smerom k zemi tak, aby žiadne zvratky nezostali v ústach alebo hrdle. Zabráňte šoku tým, že udržiavate postihnutého v teple a pokoji. Ak prestane dýchať, vykonajte dýchanie z úst.

do úst. Ak je v bezvedomí, pretočte ho na bok tak, aby mal hornú nohu ohnutú v kolennej a bedrovej časti. Zavolajte záchranku.

Popáleniny:

Nerelevantné.

4.2. Najdôležitejšie príznaky a účinky, akútne aj oneskorené

Účinky poškodzujúce tkanivo: Tento produkt obsahuje látky, ktoré sú žieravé. Vdýchnutie výparov alebo aerosólov môže viesť k poškodeniu pľúc, podráždeniu a popáleninám dýchacích orgánov a kašľu. Žieravé látky spôsobujú nevratné poškodenie očí a poleptanie kože.

4.3. Údaj o akejkolvek potrebe okamžitej lekárskej starostlivosti a osobitného ošetrovania

Po expozícii alebo podozrení z nej:

Okamžite vyhľadajte lekársku pomoc/starostlivosť.

Informácie pre zdravotníkov

Vezmite so sebou tento karty bezpečnostných údajov alebo etiketu materiálu.

ODDIEL 5: PROTIPOŽIARNE OPATRENIA

5.1. Hasiace prostriedky

Nerelevantné.

5.2. Osobitné ohrozenia vyplývajúce z látky alebo zo zmesi

V dôsledku požiaru vznikne hustý dym. Kontakt s katabolickými produktmi môže viesť k poškodeniu vášho zdravia. Uzavreté nádoby, ktoré sú vystavené požiaru, sa musia ochladiť vodou. Nedovoľte, aby hasiaca voda prenikla do kanalizácie a iných vodných tokov.

Ak je produkt vystavený vysokým teplotám, ako napr. v prípade požiaru, vznikajú nebezpečné katabolické látky. Ide o: Niektoré oxidy kovov

5.3. Pokyny pre požiarnikov

Používajte dýchací prístroj a ochranný odev, aby ste zabránili kontaktu.

ODDIEL 6: OPATRENIA PRI NÁHODNOM UVOLNENÍ

6.1. Osobné bezpečnostné opatrenia, ochranné vybavenie a núdzové postupy

Vyhňte sa priamemu kontaktu s rozliatymi látkami.

Zabezpečte primerané vetranie, hlavne v obmedzených priestoroch.

Kontaminované plochy môžu byť klzké.

6.2. Bezpečnostné opatrenia pre životné prostredie

Zabráňte vypúšťaniu do jazier, potokov, kanalizácií, atď.

Zabráňte prístupu nepovolaných osôb k úniku.

6.3. Metódy a materiál na zabránenie šíreniu a vyčistenie

Uniknutý materiál zachyťte a pozbierajte pomocou nehorľavého absorpčného materiálu, napr. piesku, zeminy, vermikulitu alebo kremeliny, a umiestnite do nádoby na likvidáciu v súlade s miestnymi predpismi.

Podľa možností čistenie vykonajte za použitia bežných čistiacich prostriedkov. Nepoužívajte rozpúšťadlá.

6.4. Odkaz na iné oddiely

Pozri oddiel 13 "Opatrenia pri zneškodňovaní" o nakladaní s odpadmi.

Pozri oddiel 8 "Kontroly expozície/osobná ochrana" o ochranných opatreniach.

ODDIEL 7: ZAOBCHÁDZANIE A SKLADOVANIE

7.1. Bezpečnostné opatrenia na bezpečné zaobchádzanie

Vyhňte sa priamemu kontaktu s produktom.

Fajčenie, konzumácia potravín alebo tekutín a skladovanie tabaku, potravín alebo tekutín sú v pracovnej miestnosti zakázané.

Pozri oddiel "Kontroly expozície/osobná ochrana" o informáciách o osobnej ochrane.

7.2. Podmienky bezpečného skladovania vrátane akejkoľvek nekompatibility

Obaly, ktoré boli otvorené, starostlivo utesnite a uchovajte vo zvislej polohe, aby ste zabránili úniku.

Uchovávajú v nádobe nádobe s odolnou vnútornou vrstvou.

Kompatibilita obalov:

Uchovávajú iba v pôvodnom balení.

Podmienky skladovania:

Suché, chladné a dostatočne vetrané

Nekompatibilné materiály:

Silné kyseliny, silné zásady, silné oxidačné činidlá a silné katabolické činidlá.

7.3. Špecifické konečné použitie, resp. použitia

Tento produkt sa môže používať len v prípadoch popísaných v oddiel 1.2.

ODDIEL 8: KONTROLY EXPOZÍCIE/OSOBNÁ OCHRANA

8.1. Kontrolné parametre

hydroxid sodný;lúh sodný

Najvyššie prípustné expozičné limity (priemerný) (mg/m³): 2

NARIADENIE VLÁDY Slovenskej republiky z 10. mája 2006 o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci. 355/2006 Z.z. (Zmena: 122/2024 Z.z.)

DNEL

hydroxid draselný;lúh draselný

Doba:	Priebeh vystavenia:	DNEL:
Dlhodobý – lokálne účinky – pracovníci	Vdýchnutie	1 mg/m ³
Dlhodobý – lokálne účinky – všeobecná populácia	Vdýchnutie	1 mg/m ³

hydroxid sodný;lúh sodný

Doba:	Priebeh vystavenia:	DNEL:
Dlhodobý – systémové účinky – zamestnanci	Dermálne	<2 %
Dlhodobý – systémové účinky – všeobecná populácia	Dermálne	2 %
Dlhodobý – lokálne účinky – pracovníci	Vdýchnutie	1 mg/m ³
Dlhodobý – lokálne účinky – všeobecná populácia	Vdýchnutie	1 mg/m ³

PNEC

hydroxid sodný;lúh sodný

Priebeh vystavenia:	Trvanie expozície:	PNEC:
Čistiareň splaškov		51 mg/L
Morská voda		0.64 mg/L
Občasné uvoľňovanie		3.1 mg/L
Občasné uvoľňovanie (morská voda)		2.3 mg/kg TG
Pôda		0.853 mg/kg TG
Sladká voda		6.4 mg/L

Sladkovodná usadenina	23 mg/kg TG

8.2. Kontroly expozície

Zhoda s uvedenými hodnotami expozičných limitov by sa mala pravidelne kontrolovať.

Všeobecné odporúčania:

Fajčenie, konzumácia potravín alebo tekutín a skladovanie tabaku, potravín alebo tekutín sú v pracovnej miestnosti zakázané.

Scenáre vystavenia:

Pre tento produkt neboli implementované žiadne expozičné scenáre.

Expozičné limity:

Pre obchodníkov platia právne predpisy týkajúce sa pracovného prostredia o maximálnych koncentráciách pri vystavení. Pozrite si vyššie uvedené prahové hodnoty pracovnej hygieny.

Vhodné technické opatrenia:

Tvorba pár sa musí udržiavať na minimálnej úrovni a pod aktuálnymi limitnými hodnotami (pozri vyššie). Ak normálne prúdenie vzduchu v pracovnej miestnosti nie je dostatočné, odporúča sa inštalácia lokálneho odsávacieho systému. Zabezpečte, aby boli núdzové fontánky na umývanie očí a sprchy jasne označené. Zabezpečte, aby sa stanice na umývanie očí a bezpečnostné sprchy nachádzali na dosah.

Počas používania výrobku dodržiavajte štandardné bezpečnostné opatrenia. Zabráňte vdýchnutiu pár.

Hygienické opatrenia:

Kedykoľvek si urobíte počas používania produktu prestávku, resp. ak ste ho prestali používať, musíte si umyť všetky vystavené časti tela. Osobitnú pozornosť venujte rukám, predlaktiam a tvári.

Opatrenia na zamedzenie vystavenia životného prostredia:

Uchovávajte v blízkosti pracoviska materiály na prehradenie. Ak je to možné, zbierajte počas práce rozsypaný materiál.

Individuálne ochranné opatrenia, akými sú napr. osobné ochranné prostriedky

Všeobecne:

Používajte len ochranné vybavenie označené značkou CE.

Dýchacie zariadenia:

Typ	Trieda	Farba	Normy	
V prípade existencie primeranej ventilácie nie je potrebná ochrana dýchacích ciest				

Ochrana kože:

Odporúčané	Typ/Kategória	Normy	
Mali by ste použiť špeciálny pracovný odev	-	-	

Ochrana rúk:

Pracovné pomery	Materiál	Hrúbka (mm)	Doba prieniku (min.)	Normy	
V prípade dlhej expozície alebo vysokých koncentrácií	Nitrilový kaučuk	0.4	> 480	EN374-2, EN16523-1, EN388	

Pracovné pomery	Materiál	Hrúbka (mm)	Doba prieniku (min.)	Normy	
V prípade krátkodobej expozície alebo nízkych koncentrácií	Nitrilový kaučuk	1,5	> 30	EN374-2, EN16523-1, EN388	

Ochrana očí:

Odporúčané	Normy	
Používajte ochranné okuliare s postrannými štítmi.	EN166	

ODDIEL 9: FYZIKÁLNE A CHEMICKÉ VLASTNOSTI

9.1. Informácie o základných fyzikálnych a chemických vlastnostiach

Forma:

Kvapalina

Farba:

Svetložltá

▼ Zápach / Prahová hodnota zápachu (ppm):

Jemný

pH:

13.5

Hustota (g/cm³):

1,29 (20 °C)

Kinematická viskozita:

K dispozícii nie sú žiadne údaje.

Vlastnosti častíc:

Neuplatňuje sa na kvapaliny.

Fázové zmeny

Teplota topenia/tuhnutia (°C):

K dispozícii nie sú žiadne údaje.

Teplota/rozmedzie mäknutia (°C):

Neuplatňuje sa na kvapaliny.

Bod varu (°C):

100

Tlak pary:

K dispozícii nie sú žiadne údaje.

Relatívna hustota pár:

K dispozícii nie sú žiadne údaje.

Teplota rozkladu (°C):

K dispozícii nie sú žiadne údaje.

Údaje o nebezpečenstve požiaru a výbuchu

Bod vzplanutia (°C):

K dispozícii nie sú žiadne údaje.

Horľavosť (°C):

K dispozícii nie sú žiadne údaje.

Teplota samovznietenia (°C):

K dispozícii nie sú žiadne údaje.

Medze výbušnosti (% v/v):

K dispozícii nie sú žiadne údaje.

Rozpustnosť

Rozpustnosť vo vode:

Úplne rozpustný

Rozdeľovací koeficient (n-oktanol/voda) (LogKow):

K dispozícii nie sú žiadne údaje.

Rozpustnosť v tuku (g/L):

K dispozícii nie sú žiadne údaje.

9.2. Iné informácie

D'alšie fyzikálne a chemické parametre:

K dispozícii nie sú žiadne údaje.

Oxidačné vlastnosti:

K dispozícii nie sú žiadne údaje.

ODDIEL 10: STABILITA A REAKTIVITA

10.1. Reaktivita

K dispozícii nie sú žiadne údaje.

10.2. Chemická stabilita

Produkt je stabilný za podmienok uvedených v oddieli "Zaobchádzanie a skladovanie".

10.3. Možnosť nebezpečných reakcií

Žiadne známe.

10.4. Podmienky, ktorým sa treba vyhnúť

Žiadne známe.

10.5. Nekompatibilné materiály

Silné kyseliny, silné zásady, silné oxidačné činidlá a silné katabolické činidlá.

10.6. Nebezpečné produkty rozkladu

Pri tepelnom rozklade môžu vznikať korozívne pary.

ODDIEL 11: TOXIKOLOGICKÉ INFORMÁCIE

11.1. Informácie o triedach nebezpečnosti vymedzených v nariadení (ES) č. 1272/2008

Akútna toxicita

Výrobok/prísada	hydroxid draselný;lúh draselný
Testované živočíchy:	Potkan, samec
Priebeh vystavenia:	Orálne
Skúška:	LD50
Výsledok:	333 - 388 mg/kg

Výrobok/prísada	hydroxid sodný;lúh sodný
Výsledok:	45.4 mg/L

Výrobok/prísada	hydroxid sodný;lúh sodný
Testované živočíchy:	Králík
Skúška:	LD lo
Výsledok:	500 mg/kg

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Poleptanie/podráždenie kože

Výrobok/prísada	iT.33 laundry booster pro
Výsledok:	Pozorované nepriaznivé účinky (Veľmi dráždivý)

Výrobok/prísada	hydroxid draselný;lúh draselný
Výsledok:	Pozorované nepriaznivé účinky (Žieravý)

Výrobok/prísada	hydroxid sodný;lúh sodný
Výsledok:	Pozorované nepriaznivé účinky (Dráždivý)

Spôsobuje vážne poleptanie kože a poškodenie očí.

Vážne poškodenie/podráždenie očí

Výrobok/prísada	iT.33 laundry booster pro
Výsledok:	Pozorované nepriaznivé účinky (Spôsobuje vážne poškodenie očí)

Výrobok/prísada	hydroxid draselný;lúh draselný
Výsledok:	Pozorované nepriaznivé účinky (Vysoko žieravý)

Výrobok/prísada	hydroxid sodný;lúh sodný
Testovacia metóda:	OECD 405
Testované živočíchy:	Králík
Výsledok:	Pozorované nepriaznivé účinky (Žieravý)

Spôsobuje vážne poškodenie očí.

Respiračná senzibilizácia

Výrobok/prísada	hydroxid draselný;lúh draselný
Výsledok:	Nepozorované žiadne nepriaznivé účinky (nesenzibilizujúci)

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Kožná senzibilizácia

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Mutagenita zárodočných buniek

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Karcinogenita

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Reprodukčná toxicita

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

TSCO (Toxicita pre špecifický cieľový orgán) - jednorazové vystavenie

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

TSCO (Toxicita pre špecifický cieľový orgán) - opakované vystavenie

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

Nebezpečenstvo pri vdýchnutí

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

11.2. Informácie o inej nebezpečnosti

Dlhodobé účinky

Účinky poškadzujúce tkanivo: Tento produkt obsahuje látky, ktoré sú žieravé. Vdýchnutie výparov alebo aerosólov môže viesť k poškodeniu pľúc, podráždeniu a popáleninám dýchacích orgánov a kašľu. Žieravé látky spôsobujú nevratné poškodenie očí a poleptanie kože.

Vlastnosti endokrinných disruptorov (rozvracačov)

Táto zmes/výrobok neobsahuje žiadne látky, ktoré sa považujú za látky narúšajúce hormonálny systém vo vzťahu k zdraviu.

Iné informácie

Žiadne známe.

ODDIEL 12: EKOLOGICKÉ INFORMÁCIE

12.1. Toxicita

Výrobok/prísada	iT.33 laundry booster pro
Testované živočíchy:	Andere waterorganismen, Leuciscus idus
Zložka životného prostredia :	Voda
Doba:	96 hodín
Skúška:	LC50
Výsledok:	>100 mg/L

Výrobok/prísada	hydroxid sodný;lúh sodný
Testované živočíchy:	Baktérie, Pseudomonas putida
Skúška:	EC0
Výsledok:	>100 mg/L

Výrobok/prísada	hydroxid sodný;lúh sodný
Testované živočíchy:	Dafnie, Ceriodaphnia dubia
Doba:	48 hodín
Výsledok:	40.4 mg/L

Výrobok/prísada	hydroxid sodný;lúh sodný
Testovacia metóda:	OECD 203
Testované živočíchy:	Ryby, Oncorhynchus mykiss
Doba:	96 hodín
Skúška:	LC50
Výsledok:	45.4 mg/L

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

12.2. Perzistencia a degradovateľnosť

Na základe dostupných údajov nie sú kritériá klasifikácie splnené.

12.3. Bioakumulačný potenciál

Výrobok/prísada	hydroxid sodný;lúh sodný
Záver:	Bioakumulácia sa neočakáva

12.4. Mobilita v pôde

K dispozícii nie sú žiadne údaje.

12.5. Výsledky posúdenia PBT a vPvB

Táto zmes/tento výrobok neobsahuje žiadne látky považované za také, ktoré by spĺňali kritériá na ich klasifikáciu ako PBT a/alebo vPvB.

12.6. Vlastnosti endokrinných disruptorov (rozvracačov)

Táto zmes/výrobok neobsahuje žiadne látky, ktoré sa považujú za látky narúšajúce endokrinný systém vo vzťahu k životnému prostrediu.

12.7. Iné nepriaznivé účinky

Žiadne známe.

ODDIEL 13: OPATRENIA PRI ZNEŠKODŇOVANÍ

13.1. Metódy spracovania odpadu

Na tento produkt sa vzťahujú predpisy o nebezpečných odpadoch. (*)

HP 8 - Leptavý

Zneškodnite obsah/nádobu schválené zariadenie na likvidáciu odpadu.

Nariadenie Komisie (EÚ) č. 1357/2014 z 18. decembra 2014 o odpade.

Kód EWC:

20 01 29*

Detergenty obsahujúce nebezpečné látky

Balenie kontaminovaného materiálu

Balenie, ktoré obsahuje zvyšky produktu, sa musí zlikvidovať rovnakým spôsobom ako produkt.

ODDIEL 14: INFORMÁCIE O DOPRAVE

	14.1 OSN	14.2 Správne expedičné označenie OSN	14.3 Trieda, resp. triedy nebezpečnosti pre dopravu	14.4 PG*	14.5. Env**	Ďalšie informácie :
ADR	UN1719	HYDROXID ALKALICKÉHO KOVU, KVAPALNÝ, I. N. (hydroxid draselný;lúh draselný, hydroxid sodný;lúh sodný)	Trieda: 8 Bezpečnostné značky: 8 Klasifikačný kód: C5 	II	Nie	Obmedzené množstvá: 1 L Dopravná kategória: (E) Ďalšie informácie nájdete nižšie.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Trieda: 8 Bezpečnostné značky: 8 Klasifikačný kód: C5 	II	Nie	Obmedzené množstvá: 1 L EmS: F-A S-B Ďalšie informácie nájdete nižšie.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Trieda: 8 Bezpečnostné značky: 8 Klasifikačný kód: C5 	II	Nie	Ďalšie informácie nájdete nižšie.

* Obalová skupina

** Nebezpečnosť pre životné prostredie

Ďalšie informácie

Na tento produkt sa vzťahujú dohody o nebezpečnom tovare.

ADR / Všetky informácie o osobitných ustanoveniach, požiadavkách alebo upozorneniach v súvislosti s dopravou nájdete v tabuľke A, oddiel 3.2.1. Písomné pokyny týkajúce sa zmiernenia škôd v súvislosti s incidentmi alebo nehodami počas dopravy nájdete v oddiele 5.4.3.

IMDG / Všetky informácie o osobitných ustanoveniach, požiadavkách alebo upozorneniach v súvislosti s dopravou nájdete v oddieli 3.2.1.

IATA / Všetky informácie o osobitných ustanoveniach, požiadavkách alebo upozorneniach v súvislosti s dopravou nájdete v tabuľke 4.2

14.6. Osobitné bezpečnostné opatrenia pre užívateľa

Nerelevantné.

14.7. Námočná preprava hromadného nákladu podľa nástrojov IMO

K dispozícii nie sú žiadne údaje.

ODDIEL 15: REGULAČNÉ INFORMÁCIE

15.1. Nariadenia/právne predpisy špecifické pre látku alebo zmes v oblasti bezpečnosti, zdravia a životného prostredia

Obmedzenia použitia:

Len na odborné použitie.

Žiadne osoby mladšie ako 18 rokov sa nesmú dostať do kontaktu s týmto produktom.

Požiadavky na špecifické vzdelávanie:

Žiadne špecifické požiadavky

SEVESO - Kategórie nebezpečných látok / Menované nebezpečné látky:

Nerelevantné.

Ďalšie informácie:

Nerelevantné.

Zdroje:

Nariadenie vlády č. 286/2004 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa ustanovuje zoznam prác a pracovísk, ktoré sú zakázané mladistvým zamestnancom, a ktorým sa ustanovujú niektoré povinnosti zamestnávateľom pri zamestnávaní mladistvých zamestnancov.

Nariadenie Európskeho parlamentu a Rady (ES) č. 648/2004 z 31. marca 2004 o detergentoch.

Nariadenie Komisie (EÚ) č. 1357/2014 z 18. decembra 2014 o odpade.

Nariadenie Európskeho parlamentu a Rady (ES) č. 1272/2008 z 16. decembra 2008 o klasifikácii, označovaní a balení látok a zmesí (CLP).

Nariadenie Európskeho parlamentu a Rady (ES) č. 1907/2006 z 18. decembra 2006 o registrácii, hodnotení, autorizácii a obmedzovaní chemických látok (REACH).

15.2. Hodnotenie chemickej bezpečnosti

Nie

ODDIEL 16: INÉ INFORMÁCIE

Plné znenia H-viet, ako sú uvedené v oddieli 3

H290, Môže byť korozívna pre kovy.

H302, Škodlivý po požití.

H314, Spôsobuje vážne poleptanie kože a poškodenie očí.

H315, Dráždi kožu.

H318, Spôsobuje vážne poškodenie očí.

H319, Spôsobuje vážne podráždenie očí.

Skratky a akronymy

ADN = Európske opatrenia o medzinárodnej vnútrozemskej vodnej preprave nebezpečných vecí
ADR = Európska dohoda o medzinárodnej cestnej preprave nebezpečných vecí
ATE = Odhad akútnej toxicity
BCF = Biokoncentračný faktor
CAS = Služba chemických konspektov
CE = Európska zhoda
CLP = klasifikácia, označenie a balenie nariadenie (ES) 1272/2008
CSA = Hodnotenie chemickej bezpečnosti
CSR = Správa o chemickej bezpečnosti
DNEL = Odvodená hladina, pri ktorej nedochádza k žiadnemu účinku
EINECS = Európsky zoznam existujúcich komerčných chemických látok ES = Scenáre expozície
EUH vyhlásenie = CLP-špecifické vyhlásenie o nebezpečenstve
EuPCS = Európsky systém kategorizácie výrobkov
EWC = Európsky katalóg odpadov
GHS = Globálny harmonizovaný systém klasifikácie a označovania
GWP = Potenciál globálneho otepľovania
IATA = Medzinárodná asociácia leteckej prepravy
IBC = Stredne veľká nádoba na voľne ložené látky
IMDG = Medzinárodný námorný zákon o nebezpečných veciach
LogPow = logaritmus koeficientu pomeru oktanol / voda
MARPOL = Medzinárodný dohovor na prevenciu znečistenia z lodí, 1973, modifikovaný protokolom z roku 1978.
("Marpol" = námorné znečistenie)
OECD = Organizácia pre hospodársku spoluprácu a rozvoj
PBT = Perzistentný, bioakumulovateľný a toxický
PNEC = Predpokladaná koncentrácia, pri ktorej nedochádza k žiadnemu účinku
OSN = Organizácia Spojených Národov
RID = Poriadok pre medzinárodnú železničnú prepravu nebezpečného tovaru
RRN = Registračné číslo REACH
SCL = špecifický koncentračný limit.
SVHC = Látky vzbudzujúce veľmi veľké obavy
STOT - RE = Toxicita pre špecifický cieľový orgán - opakovaná expozícia
STOT-SE = Toxicita pre špecifický cieľový orgán - jednorázová expozícia
TWA = časom vážená priemerná
UVCB = Znamenajú látky neznámeho alebo variabilného zloženia, produkty komplexných reakcií alebo biologické materiály.
VOC = Prchavé organické látky
vPvB = Veľmi perzistentný a veľmi akumulovateľný

Ďalšie informácie

Klasifikácia zmesi z pohľadu ohrozenia zdravia je v súlade so spôsobmi výpočtu stanovenými nariadením (ES) č. 1272/2008 (CLP).

Táto karta bezpečnostných údajov bola potvrdená

Quality & Compliance

Iné

Zmena (v pomere k poslednej zásadnej zmene (prvá šifra vo verzii karty bezpečnostných údajov)) je označená trojuholníkom.

Informácie uvedené v tomto karty bezpečnostných údajov platia iba pre tento konkrétny produkt (uvedené v oddiel 1), a nemusia byť preto správne pri použití tohto produktu s inými chemickými látkami/produktmi.

Odporúča sa odovzdať tento karty bezpečnostných údajov skutočnému užívateľovi produktu. Informácie v tomto bezpečnostnom liste sa nemôžu použiť ako špecifikácia produktu.

Krajina-jazyk: SK-sk

MALZEME GÜVENLİK BİLGİ FORMU

iT.33 laundry booster pro

BÖLÜM 1: MADDE/KARISIM VE ŞİRKET/YÜKLENİCİNİN TANIMLANMASI

1.1. Madde /Karışımın kimliği

Ticari adı:

iT.33 laundry booster pro

1.2. Madde veya karışımın belirlenmiş kullanımları ve tavsiye edilmeyen kullanımları

Madde veya karışımın ilgili belirlenmiş kullanımları:

Deterjanlar ve temizlik maddeleri (solvent bazlı olanlar dahil)

Sadece profesyonel kullanıcılar içindir.

Kullanılması önerilmez:

Hiçbiri bilinmiyor.

1.3. Güvenlik bilgi formu tedarikçisinin bilgileri

Şirket ve adres:

Hygieniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygieniq.com

E-posta:

info@hygieniq.com

SDS tarihi:

14.08.2025

SDS Versiyonu:

2.0

Önceki Yayın Tarihi:

28.07.2025 (1.0)

1.4. Acil durum telefon numarası

114

Ulusal veya yerel acil durum numarasını kullanın

Bkz bölüm 4 "İlk yardım önlemleri".

BÖLÜM 2: TEHLİKE TANIMLARI

1272/2008 (CLP) Sayılı Yönetmeliğe (AT) göre sınıflandırılmıştır.

2.1. Madde ve karışımın sınıflandırılması

Met. Corr. 1; H290, Metalleri aşındırabilir.

Skin Corr. 1A; H314, Ciddi cilt yanıklarına ve göz hasarına yol açar.

Eye Dam. 1; H318, Ciddi göz hasarına yol açar.

2.2. Etiket Unsurları

Tehlike belirten resimli yazı(lar):



uyarı ifadesi:

Tehlike

Tehlike beyan(lar)ı:

Metalleri aşındırabilir. (H290)

Ciddi cilt yanıklarına ve göz hasarına yol açar. (H314)

Güvenlik beyan(lar)ı:

▼ Genel:

Uygulanamaz.

Önleyici:

buharlar/buğu solumayın. (P260)

göz koruma/koruyucu eldivenler/koruyucu giysiler kullanın. (P280)

▼ Yanıt:

CİLDE TEMAS EDERSE (ya da saç): Kirlenen bütün kıyafetleri derhal çıkarın. Cildinizi su ile yıkayın ya da duş alın. (P303+P361+P353)

GÖZE TEMAS EDERSE: Birkaç dakika boyunca gözü dikkatli bir şekilde su ile yıkayın. Varsa ve çıkarması kolaysa kontakt lensleri çıkarın. Yıkamaya devam edin. (P305+P351+P338)

Hemen ZEHİR MERKEZİ/doktor arayın. (P310)

Depolama:

dayanıklı bir iç astarı olan konteynerde muhafaza edin. (P406)

Atık:

İçeriği/kabı uyarınca yerel yönetmelikler bertaraf edin (P501)

Büyük sağlık tehditlerinden birincil olarak sorumlu maddelerin kimliği:

potassium hydroxidecaustic potash

sodium hydroxidecaustic soda

Ek Etiketleme:

Uygulanamaz.

2.3. Diğer zararlar

Ek uyarılar:

Bu karışım/ürün, PBT ve/veya vPvB sınıfı kapsamında değerlendirilen herhangi bir ürün içermez.

Bu ürün, Komisyon Delegasyonu Yönetmeliği (AB) 2017/2100 veya Komisyon Yönetmeliği (AB) 2023/707'te belirtilen kriterlere uygun olarak endokrin bozucu olarak kabul edilen herhangi bir madde içermez.

BÖLÜM 3: BİLESİMİ/İÇİNDEKİLER HAKKINDA BİLGİ

3.1. Maddeler

Uygulanamaz. Bu ürün bir karışımdır.

3.2. ▼ Karışımlar

Ürün/içerik	Tanımlayıcılar	% w/w	Sınıflandırma	Notlar
potassium hydroxidecaustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302	

	REACH: Liste No.: 019-002-00-8		Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Irrit. 2, H319 (SCL: 0,50 %)	
sodium hydroxidecaustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 REACH: 01-2119457892-27-XXXX Liste No.: 011-002-00-6	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2,00 %) Skin Irrit. 2, H315 (SCL: 0,50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0,50 %)	

Bölüm 16'daki H terimlerinin tam metnine bakın. Mevcut ise mesleki sınırlar bölüm 8'de listelenmiştir.

Diger bilgiler

BÖLÜM 4: İLK YARDIM ÖNLEMLERİ

4.1. İlk yardım önlemlerinin açıklaması

Genel bilgiler:

Kaza durumunda: Doktor veya acil servise başvurun, etiketi veya bu güvenlik veri sayfasını yanınıza alın.
Yaralanan kişinin durumundan emin değilseniz veya belirtiler devam ediyorsa doktora başvurun. Bilinç kaybına uğramış bir kişiye su veya benzeri şeyler vermeyin.

Soluma:

Solumun güçlüğü veya solumun yollarının tahrişi üzerine: Kişiyi temiz havaya çıkarın ve yalnız bırakmayın.

Cilt ile temas:

Maruz kalan bölgeyi uzun süre suyla yıkayın - en az 30 dakika. Birkaç saat boyunca yıkamak gerekebilir. Rahatlatıcı bir su sıcaklığı (20-30 °C) kullanın. Takip ve tedavi ile ilgili daha fazla tavsiye için Ulusal Zehir Danışma Merkezi/doktor/hastane ile irtibata geçin.
Kirlenen giysileri ve ayakkabıları derhal çıkarın. Malzeme ile temas eden cilt su ve sabun ile iyice yıkanmalıdır. Cilt temizleyicisi kullanılmalıdır. Çözücü veya inceltici KULLANILMAMALIDIR.
Ciltte tahriş söz konusu ise: Tıbbi yardım/müdahale alın.

Göz ile temas:

Gözle teması halinde: Gözlerinizi en az 30 dakika boyunca suyla (20-30 °C) yıkayın ve tahriş geçene kadar devam edin. Kontakt lenslerinizi çıkarın. Göz kapaklarının altlarını yıkadığınızdan emin olun. Derhal doktora başvurun. Hemen tıbbi yardım alın ve nakliye sırasında yıkamaya devam edin.

Yutma:

Yutulma durumunda derhal doktora başvurun. Eğer kişinin bilinci açık ise su verin. Doktor önermediği takdirde kusturmaya ÇALIŞMAYIN. Kusmuğun ağız ve geniz bölgesine gitmesini engellemek için başını yere dönük tutun. Nefes almıyor ise suni teneffüs yapın. Bilinç kapalı ise yaralanan kişiyi yana doğru çevirin ve yukarıda kalan bacağını hem diz hem de kalçadan bükün. Ambulans çağırın.

Yanıklar:

Uygulanamaz.

4.2. Akut ve sonradan görülen önemli belirtiler ve etkiler

Doku hasarı etkileri: Bu ürün çürümeye neden olan maddeler içermektedir. Buhar veya aerosoller solunursa akciğerlere hasar verebilir, solumun organlarında tahriş ve yanıklara ve öksürmeye neden olabilir. Çürütücü maddeler gözlerle kalıcı hasar verebilir ve ciltte asit yanıklarına neden olabilir.

4.3. Tıbbi müdahale ve özel tedavi gereği için ilk işaretle

Maruz kalınma veya etkileşme halinde:
Hemen tıbbi tavsiye/müdahale alın.

Doktorlar için bilgiler

Bu güvenlik belgesini veya malzemenin etiketini yanınıza alın.

BÖLÜM 5: YANGIN ÖNLEMLERİ

5.1. Yangın söndürücüler

Uygulanamaz.

5.2. Madde veya karışımdan kaynaklanan özel zararlar

Yangın yoğun bir duman oluşturacaktır. Katabolik ürünlere maruz kalmak sağlığınız için zararlı olabilir. Yangına maruz kalan kapalı konteynerler su ile soğutulmalıdır. Yangın söndürme suyunun kanalizasyona veya benzeri su kanallarına akmasını engelleyin.

Eğer ürün bir yangın durumunda olduğu gibi yüksek sıcaklıklara maruz kalırsa, tehlikeli katabolik maddeler yayılır.

Bunlar:

Bazı metal oksitler

5.3. Yangın söndürme ekipleri için tavsiyeler

Teması engellemek için müstakil solunum cihazı ve koruyucu giysi kullanın.

BÖLÜM 6: KAZARA SALINIMA KARŞI ÖNLEMLER

6.1. Kişisel önlemler, koruyucu donanım ve acil durum prosedürleri

Dökülen maddelere doğrudan dokunmaktan kaçının.

Kirli alanlar kaygan olabilir.

6.2. Çevresel önlemler

Göl, akarsu, kanalizasyon vb.'ne akması engellenmelidir.

Yetkisiz kişileri döküntüden uzak tutun

6.3. Muhafaza etme ve temizleme için yöntemler ve materyaller

Dökülen maddeyi, kum, toprak, vermikülit, diyatumlu toprak gibi yanmayan emici maddelerle etrafını çevirip toplayın ve yerel mevzuata uygun olarak atmak üzere bir konteynere yerleştirin.

Temizlik mümkün olduğunca normal temizlik malzemeleri ile yapılmalıdır. Çözücülerden kaçınılmalıdır.

6.4. Diğer bölümlere atıflar

Atıklarla ilgili olarak 13 " Atıkların atılması ile ilgili hususlar" bölümüne göz atın.

Koruyucu önlemler için 8 "Maruz kalma kontrolleri/kişisel koruma" bölümüne bakın.

BÖLÜM 7: TASIMA VE DEPOLAMA

7.1. Güvenli elleçleme için önlemler

Ürün ile doğrudan temastan kaçının.

Çalışma alanları içerisinde sigara içilmesi, yiyecek veya içecek tüketimi, tütün, yiyecek veya içeceklerin depolanmasına izin verilmez.

Kişisel koruma için "Maruz kalma kontrolleri/kişisel koruma" bölümüne bakın.

7.2. Uyuşmazlıkları da içeren güvenli depolama için koşullar

Açılan konteynerler dikkatlice yeniden mühürlenmeli ve sızıntıyı engellemek için dik konumda tutulmalıdır. dayanıklı bir iç astarı olan konteynerde muhafaza edin.

Ambalaj uygunlukları:

Sadece orijinal paketi içerisinde tutun.

Depolama koşulları:

Kuru, serin ve iyi havalandırılmış

Kaçınılması gereken maddeler:

Güçlü asitler, güçlü bazlar, güçlü paslandırıcı maddeler ve güçlü katabolik maddeler.

7.3. Belirli son kullanımlar

Bu ürün sadece bölüm 1.2'de belirtilen uygulamalar için kullanılmalıdır.

BÖLÜM 8: MARUZ KALMA KONTROLLERİ/KİSİSEL KORUMA

8.1. Kontrol parametreleri

Ürün, çalışma alanı maruz kalma limitli madde olarak Türkiye listesinde bulunan maddeler içermez.

DNEL

potassium hydroxidecaustic potash

Süresi:	Maruz kalma şekli:	DNEL:
Uzun Vade - Lokal Etkiler - Çalışanlar	Solunum yolu	1 mg/m ³
Uzun vade - lokal etkiler - Genel nüfus	Solunum yolu	1 mg/m ³

sodium hydroxidecaustic soda

Süresi:	Maruz kalma şekli:	DNEL:
Uzun Vade - Sistemik Etkiler - Çalışanlar	Cilt yolu	<2 %
Uzun Vade - sistemik etkiler - genel nüfus	Cilt yolu	2 %
Uzun Vade - Lokal Etkiler - Çalışanlar	Solunum yolu	1 mg/m ³
Uzun vade - lokal etkiler - Genel nüfus	Solunum yolu	1 mg/m ³

PNEC

sodium hydroxidecaustic soda

Maruz kalma şekli:	Maruz Kalma Süresi:	PNEC:
Aralıklı serbest bırakma		3.1 mg/L
Aralıklı serbest bırakma (deniz suyu)		2.3 mg/kg TG
Atık su Arıtma Tesisi		51 mg/L
Deniz suyu		0.64 mg/L
Temiz su		6.4 mg/L
Temiz su tortusu		23 mg/kg TG
toprak		0.853 mg/kg TG

8.2. Maruz kalma kontrolleri

Gereksiz maruziyeti önlemek için genel kontrol işlemi gerçekleştirin.

Genel öneriler:

Çalışma alanları içerisinde sigara içilmesi, yiyecek veya içecek tüketimi, tütün, yiyecek veya içeceklerin depolanmasına izin verilmez.

Maruz kalma senaryoları:

Bu ürün için uygulanan hiçbir maruz kalma senaryosu bulunmamaktadır.

Maruz kalma sınırları:

Bu ürün içerisinde bulunan maddeler için maksimum maruz kalma limiti yoktur.

İlgili teknik önlemler:

Göz banyosu istasyonlarının ve göz duşlarının kolayca ulaşılabilecek bir yerde olduğundan emin olun.

Ürünün kullanımı sırasında standart tedbirleri uygulayın. Buharı solumaktan kaçının.

Hijyen önlemleri:

Bu ürünü kullanırken ara verdiğinizde ve ürünü kullanmayı tamamladığınızda, vücudun açıkta olan tüm yerleri yıkanmalıdır. Ellerinize, kollarınızın ön kısımlarına ve yüzünüze özellikle dikkat edin.

Çevresel maruz kalmayı engellemek üzere önlemler:

İşyeri çevresinde set oluşturabilecek malzemeler kullanın. Mümkünse çalışma sırasında dökülenleri toplayın.

Kisisel koruma ekipmanları gibi bireysel koruma önlemleri

Genel:

Sadece CE işaretli koruyucu ekipmanları kullanınız.

Solunum ekipmanı:

Tipi	Sınıf	Renk	Standartlarına	
Uygun havalandırma durumunda solunum koruma cihazının kullanılması gerekmez				

Cildin korunması:

Önerilen	Tip/Kategori	Standartlarına	
Özel iş giysileri kullanılmalıdır	-	-	

Ellerin korunması:

Çalışma durumu	Malzeme	Minimum tabaka kalınlığı (mm)	Delinme süresi (dakika)	Standartlarına	
Uzun süreli maruz kalma veya yüksek konsantrasyonlar durumunda	Nitril lastik	0,4	> 480	EN374-2, EN16523-1, EN388	
Kısa süreli maruz kalma veya düşük konsantrasyonlar durumunda	Nitril lastik	1,5	> 30	EN374-2, EN16523-1, EN388	

Gözlerin korunması:

Tipi	Standartlarına	
Yan siperleri olan koruyucu gözlük takın.	EN166	

BÖLÜM 9: FİZİKSEL VE KİMYASAL ÖZELLİKLER

9.1. Temel fiziksel ve kimyasal özellikler hakkında bilgi

Sekil:

Sıvı

Renk:

Açık sarı

▼ Koku / Koku eşiği (ppm):

Hafif

pH:

13.5

Yogunluk (g/cm³):

1,29 (20 °C)

Kinematik vizkosite:

Veri bulunmamaktadır.

Partikül özellikleri:

Sıvılar uygulanmaz

Hal değişiklikleri

Erime noktası/Donma noktası (°C):

Veri bulunmamaktadır.

Yumuşama noktası/aralığı (°C):

Sıvılar uygulanmaz

Kaynama noktası (°C):

100

Buhar basıncı:

Veri bulunmamaktadır.

Bağıl buhar yoğunluğu:

Veri bulunmamaktadır.

Bozunma sıcaklığı (°C):

Veri bulunmamaktadır.

Yangın ve patlama tehlikeleri ile ilgili veriler

Parlama noktası (°C):

Veri bulunmamaktadır.

Alevlenirlik (°C):

Veri bulunmamaktadır.

Kendi kendine yanma noktası (°C):

Veri bulunmamaktadır.

Patlama sınırları (% v/v):

Veri bulunmamaktadır.

Çözünürlük

Suda çözünürlük:

Tamamen çözünür

n-oktanol/su katsayısı (LogKow):

Veri bulunmamaktadır.

Yağda çözünürlük (g/L):

Veri bulunmamaktadır.

9.2. Diğer bilgiler

Diğer fiziksel ve kimyasal parametreler:

Veri bulunmamaktadır.

Oksitleyici özellikler:

Veri bulunmamaktadır.

BÖLÜM 10: KARARLILIK VE REAKTİFLİK

10.1. Tepkime

Veri bulunmamaktadır.

10.2. Kimyasal kararlılık

Ürün 7, "Taşıma ve depolama" bölümünde belirtilen koşullar altında durağandır.

10.3. Zararlı tepkime olasılığı

Hiçbiri bilinmiyor.

10.4. Kaçınılması gereken durumlar

Hiçbiri bilinmiyor.

10.5. Kaçınılması gereken maddeler

Güçlü asitler, güçlü bazlar, güçlü paslandırıcı maddeler ve güçlü katabolik maddeler.

10.6. Zararlı bozunma ürünleri

Termal ayrışım, korozyon buhar üretebilir.

BÖLÜM 11: TOKSİKOLOJİK BİLGİLER

11.1. Toksik etkiler hakkında bilgi

Akut toksik

Ürün/içerik	potassium hydroxidecaustic potash
Tür:	Sıçan, erkekler
Maruz kalma şekli:	Ağız yolu
Test:	LD50
Sonuç:	333 - 388 mg/kg

Ürün/içerik	sodium hydroxidecaustic soda
Sonuç:	45.4 mg/L

Ürün/içerik	sodium hydroxidecaustic soda
Tür:	Tavşan
Test:	LD lo
Sonuç:	500 mg/kg

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Cilt asinması/tahris

Ürün/içerik	iT.33 laundry booster pro
Sonuç:	Yan etki gözlemlenmiştir (Son derece tahriş edici)

Ürün/içerik	potassium hydroxidecaustic potash
Sonuç:	Yan etki gözlemlenmiştir (Aşındırıcı)

Ürün/içerik	sodium hydroxidecaustic soda
Sonuç:	Yan etki gözlemlenmiştir (Tahriş edici)

Ciddi cilt yanıklarına ve göz hasarına yol açar.

Ciddi göz hasarları/tahrişi

Ürün/içerik	iT.33 laundry booster pro
Sonuç:	Yan etki gözlemlenmiştir (Ciddi göz hasarına yol açar)

Ürün/içerik	potassium hydroxidecaustic potash
Sonuç:	Yan etki gözlemlenmiştir (Son derece aşındırıcı)

Ürün/içerik	sodium hydroxidecaustic soda

Test metodu: OECD 405
Tür: Tavşan
Sonuç: Yan etki gözlemlenmiştir (Aşındırıcı)

Ciddi göz hasarına yol açar.

Solunum yolları hassaslaşması

Ürün/içerik: potassium hydroxidecaustic potash
Sonuç: Hiçbir yan etki gözlenmemiştir (hassaslaştırıcı değil)

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Cilt hassaslaşması

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Hastalıklı hücre mutajenitesi

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Kanserojenlik

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Üreme toksisitesi

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

STOT- tekil maruz kalma

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

STOT - tekrarlı maruz kalma

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

Aspirasyon tehlikesi

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

11.2. Diğer tehlikelere ilişkin bilgiler

Uzun vadeli etkiler

Doku hasarı etkileri: Bu ürün çürümeye neden olan maddeler içermektedir. Buhar veya aerosoller solunursa akciğerlere hasar verebilir, solunum organlarında tahriş ve yanıklara ve öksürmeye neden olabilir. Çürütücü maddeler gözle kalıcı hasar verebilir ve ciltte asit yanıklarına neden olabilir.

Endokrin bozucu özellikler

Bu karışım/ürün, sağlıkla ilgili hormon bozucu özelliklere sahip olduğu düşünülen herhangi bir madde içermemektedir.

Diğer bilgiler

Hiçbiri bilinmiyor.

BÖLÜM 12: EKOLOJİK BİLGİLER

12.1. Toksisite

Ürün/içerik: iT.33 laundry booster pro
Tür: Andere waterorganismen, Leuciscus idus
Ortamıdır: Su
Süresi: 96 saat
Test: LC50
Sonuç: >100 mg/L

Ürün/içerik: sodium hydroxidecaustic soda
Tür: Bakteriler, Pseudomonas putida
Test: EC0
Sonuç: >100 mg/L

Ürün/içerik: sodium hydroxidecaustic soda

Tür: Defne, Ceriodaphnia dubia
Süresi: 48 saat
Sonuç: 40.4 mg/L

Ürün/içerik: sodium hydroxidecaustic soda
Test metodu: OECD 203
Tür: Balık, Oncorhynchus mykiss
Süresi: 96 saat
Test: LC50
Sonuç: 45.4 mg/L

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

12.2. Kalıcılık ve bozunabilirlik

Mevcut veriler sınıflandırma kriterlerini karşılamıyor.

12.3. Biyobirikim potansiyeli

Ürün/içerik: sodium hydroxidecaustic soda
Sonuç: Biyoakümülyasyon beklenmemektedir

12.4. Toprakta hareketlilik

Veri bulunmamaktadır.

12.5. PBT ve vPvB değerlendirmesinin sonuçları

Bu karışım/ürün, PBT ve/veya vPvB sınıfı kapsamında değerlendirilen herhangi bir ürün içermez.

12.6. Endokrin bozucu özellikler

Bu karışım/ürün, çevreyle ilgili endokrin bozucu özelliklere sahip olduğu düşünülen herhangi bir madde içermemektedir.

12.7. Diğer olumsuz etkiler

Hiçbiri bilinmiyor.

BÖLÜM 13: ATIKLARIN ATILMASI İLE İLGİLİ HUSUSLAR

13.1. Atık işleme yöntemleri

Bu ürün tehlikeli atık düzenlemeleri kapsamındadır. (*)

HP 8 - Aşındırıcı

İçeriği/kabı onaylı bir atık bertaraf tesisine bertaraf edin.

18 Aralık 2014 tarih ve 1357/2014 sayılı Komisyon Yönetmeliği (AB), Avrupa Parlamentosu ve Konseyi'nin atıklarla ilgili 2008/98/EC Yönergesinin Ek III'ünün yerini almıştır.

EWC kodu:

20 01 29* Tehlikeli maddeler içeren deterjanlar

Bulasmis ambalaj

Ürünün artıklarının bulunduğu ambalaj malzemeleri ürün ile aynı şekilde atılmalıdır.

BÖLÜM 14: TASIMACILIK BİLGİLERİ

	14.1 UN	14.2 İsim ve tanım	14.3 Sınıf	14.4 PG*	14.5. Env**	Diğer bilgiler:
ADR	UN1719	KOSTİK ALKALİ SIVI, B.B.B. (potassium hydroxidecaustic potash, sodium hydroxidecaustic soda)	Sınıf: 8 Etiketler: 8 Sınıflandırma Kodu: C5	II	Hayır	Sınırlı miktarlar: 1 L Tünel kısıtlama

	14.1 UN	14.2 İsim ve tanım	14.3 Sınıf	14.4 PG*	14.5. Env**	Diger bilgiler:
						kodu: (E) Ek bilgi için aşağıya bakın.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Sınıf: 8 Etiketler: 8 Sınıflandırma Kodu: C5 	II	Hayır	Sınırlı miktarlar: 1 L EmS: F-A S- B Ek bilgi için aşağıya bakın.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Sınıf: 8 Etiketler: 8 Sınıflandırma Kodu: C5 	II	Hayır	Ek bilgi için aşağıya bakın.

* Paketleme grubu

** Çevresel zararlar

Ek bilgiler

Bu ürün tehlikeli maddeler ile ilgili düzenlemeler tarafından kapsamaktadır.

ADR / Taşıma ile ilgili özel hükümler, gereksinimler veya uyarılar hakkında bilgi için Tablo A, Bölüm 3.2.1'e bakınız.

Taşıma sırasında meydana gelen olaylar veya kazalarla ilgili zararların azaltılmasına ilişkin yazılı talimatlar için bölüm 5.4.3'e bakınız.

IMDG / Taşıma ile ilgili özel hükümler, gereksinimler veya uyarılar hakkında bilgi için Bölüm 3.2.1'e bakınız.

IATA / Taşıma ile ilgili özel hükümler, gereksinimler veya uyarılar hakkında bilgi için 4.2'e bakınız.

14.6. Kullanıcı için özel önlemler

Uygulanamaz.

14.7. MARPOL 73/78 ek II ve IBC koduna göre toplu taşımacılık

Veri bulunmamaktadır.

BÖLÜM 15: MEVZUAT BİLGİLERİ

15.1. Madde veya karışıma özgü güvenlik, sağlık ve çevre mevzuatı

Uygulama ile ilgili sınırlamalar:

Sadece profesyonel kullanıcılar içindir.

18 yaşından küçük kişiler bu ürüne maruz bırakılmamalıdır.

Özel eğitim talepleri:

Belirli gereksinimler yoktur.

SEVESO - Tehlikeli maddelerin zararlılık kategorileri / Adlandırılmış tehlikeli maddeler:

Uygulanamaz.

Ek bilgiler:

Uygulanamaz.

Kaynaklar:

İş yerinde gençlerin korunmasına ilişkin 22 Haziran 1994 tarih ve 94/33/EC sayılı Konsey Direktifi.

DETERJANLAR HAKKINDA YÖNETMELİK. Resmî Gazete Sayı : 30314 (Ocak 2018)

18 Aralık 2014 tarih ve 1357/2014 sayılı Komisyon Yönetmeliği (AB), Avrupa Parlamentosu ve Konseyi'nin atıklarla ilgili 2008/98/EC Yönergesinin Ek III'ünün yerini almıştır.
11/12/2013 tarihli ve 28848 MADDELERİN VE KARIŞIMLARIN SINIFLANDIRILMASI, ETİKETLENMESİ VE AMBALAJLANMASI HAKKINDA YÖNETMELİK
23/06/2017 tarihli ve 30105 KİMYASALLARIN KAYDI, DEĞERLENDİRİLMESİ, İZNI VE KISITLANMASI HAKKINDA YÖNETMELİK.

15.2. Kimyasal güvenlik değerlendirme

Hayır

BÖLÜM 16: DİĞER BİLGİLER

Bölüm 3'te belirtilen H terimlerinin tam metni

- H290, Metalleri aşındırabilir.
- H302, Yutulması halinde zararlıdır.
- H314, Ciddi cilt yanıklarına ve göz hasarına yol açar.
- H315, Cilt tahrişine yol açar.
- H318, Ciddi göz hasarına yol açar.
- H319, Ciddi göz tahrişine yol açar.

Kısaltmalar ve eş anlamlılar

- ACGIH = American Conference of Industrial Hygienists
- ADN = Tehlikeli yüklerin iç su yollarında uluslararası taşınması hakkındaki Avrupa Koşulları
- ADR = Tehlikeli yüklerin uluslararası karayollarında taşınması hakkındaki Avrupa Sözleşmesi
- ATE = Öngörülen akut toksisite
- BCF = Biyobirikim faktörü
- BM = Birleşmiş Milletler
- CAS = Kimyasal Kuramlar Servisi
- CE = Avrupa Uygunluğu
- EuPCS = Avrupa Ürün Kategorizasyon Sistemi
- GHS = Kimyasalların Global Harmonize Sınıflandırma ve Etiketleme Sistemi
- IATA = Uluslararası Hava Taşımacılığı Birliği
- IMDG = Uluslararası Denizcilikte Tehlikeli Yükler
- KIP = Küresel ısınma potansiyeli
- LogPow = oktanol/su dağılım katsayısının 10 tabanlı logaritması
- MARPOL = Gemilerden Kaynaklanan Deniz Kirliliğini Önleme Sözleşmesi, 1973 1978 Protokolüyle değiştirilmiş hali ("Marpol" = deniz kirlenmesi)
- OECD = Ekonomik İşbirliği ve Kalkınma Örgütü
- PBT = Kalıcı, Biyobirikimli ve Toksik
- RID = Tehlikeli Yüklerin Uluslararası Demiryolu ile Taşınması hakkındaki Tüzük
- SCL = Spesifik konsantrasyon limiti.
- STOT-RE = Özel Organ Hedefli Toksisite - Tekrarlanan Maruziyet
- STOT-SE = Özel Organ Hedefli Toksisite - Tek Maruziyet
- TWA = Zaman ağırlıklı ortalama
- UOB = Uçucu Organik Bileşikler
- UVCB = Bilinmeyen veya değişken bileşim, kompleks reaksiyon ürünleri veya biyolojik malzemeler
- vPvB = Çok Kalıcı ve Çok Biyobirikimli

Ek bilgiler

Sağlık riski yönünden karışımın sınıflandırılması, 1272/2008 (CLP) numaralı (EC) Düzenlemesi tarafından hesaplama metodları ile uyumludur.

Güvenlik bilgi formunu onaylayan

Quality & Compliance

Diger

Değişiklik (en son önemli değişiklik ile orantılı olarak (SDS versiyonu ilk anahtarı)) üçgen ile işaretlenmiştir.
Bu güvenlik bilgi formu içerisindeki bilgiler sadece belirlenmiş ürün için uygundur (bölüm 1'de belirtilmiştir) ve diğer kimyasallar/ürünler için kullanılması uygun olmayabilir.
Bu güvenlik bilgi formunun asıl ürün kullanıcılarına teslim edilmesi önerilir. Bu güvenlik bilgi formu içerisindeki bilgiler ürün spesifikasyonu olarak kullanılamaz.
Ülke-dil: TR-tr

SAFETY DATA SHEET

iT.33 laundry booster pro

SECTION 1: IDENTIFICATION

1.1. Product identifier

Trade name:

iT.33 laundry booster pro

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Washing and cleaning products (including solvent based products)

Restricted to professional users.

Uses advised against :

None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Hygeniq B.V.

Postbus 618

7500 AP Enschede

The Netherlands

+31 53 4282860

+31 53 5393865

www.hygeniq.com

E-mail:

info@hygeniq.com

SDS date:

8/14/2025

SDS Version:

2.0

Date of previous version:

7/28/2025 (1.0)

1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 "First aid measures".

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

▼ *General:*

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Absorb spillage to prevent material damage. (P390)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Additional labelling:

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide;caustic potash	CAS No.: 1310-58-3	5-15%	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Irrit. 2, H319 (SCL: 0.50 %)	

sodium hydroxide;caustic soda	CAS No.: 1310-73-2	2-5%	Met. Corr. 1, H290 Skin Corr. 1A, H314 Skin Corr. 1B, H314 (SCL: 2.00 %) Skin Irrit. 2, H315 (SCL: 0.50 %) Eye Dam. 1, H318 Eye Irrit. 2, H319 (SCL: 0.50 %)	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: FIRST-AID MEASURES

4.1. Description of first aid measures

General information:

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

sodium hydroxide;caustic soda

Long term exposure limit (OSHA Table Z-1) (mg/m³): 2

Long term exposure limit (ACGIH TLV) (mg/m³): (Ceiling) 2

Ceiling value (NIOSH REL) (mg/m³): 2

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection:

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
In the event of prolonged exposure or high concentrations	Nitrile	0.4	> 480	EN374-2, EN16523-1, EN388	
In the event of short termed exposure or low concentrations	Nitrile	1,5	> 30	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Color:

Pale yellow

▼ *Odor:*

Mild

Odor threshold (ppm):

No data available.

pH:

13.5

Density (g/cm³):

1.29 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/freezing point (°F):

No data available.

Softening point/range (°F):

Does not apply to liquids.

Boiling point (°F):

-

Boiling point (°C):

100

Vapor pressure:

No data available.

Relative vapor density:

No data available.

Decomposition temperature (°F):

No data available.

Data on fire and explosion hazards

Flash point (°F):

No data available.

Flammability (°F):

No data available.

Auto-ignition temperature (°F):

No data available.

Explosion limits (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Other physical and chemical parameters:

No data available.

Oxidizing properties:

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product/substance	potassium hydroxide;caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	sodium hydroxide;caustic soda
Result:	45,4 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Highly irritating)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide;caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	iT.33 laundry booster pro
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	potassium hydroxide;caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide;caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	iT.33 laundry booster pro
Species:	Andere waterorganismen, Leuciscus idus
Compartment:	Water
Duration:	96 hours
Test:	LC50
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L

Product/substance	sodium hydroxide;caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L

Product/substance	sodium hydroxide;caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hydroxide;caustic soda

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2024)

Conclusion: Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
DOT	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional informatio n.
IMDG	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S- B See below for additional informatio n.
IATA	UN1719	CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide;caustic potash, sodium hydroxide;caustic soda)	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional informatio n.

* Packing group

**** Environmental hazards**

Additional information

This product is within scope of the regulations of transport of dangerous goods.

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to IMO instruments

No data available.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. U.S. Federal regulations

TSCA (the non-confidential portion):

potassium hydroxide;caustic potash is listed

sodium hydroxide;caustic soda is listed

Clean Air Act:

None of the components are listed

EPCRA Section 302:

None of the components are listed

EPCRA Section 304:

None of the components are listed

EPCRA section 313:

None of the components are listed

CERCLA:

potassium hydroxide;caustic potash is regulated with a Reportable Quantity (RQ) of: 1000 pounds

sodium hydroxide;caustic soda is regulated with a Reportable Quantity (RQ) of: 1000 pounds

Hazardous chemical inventory reporting:

This product is subject to Tier II reporting.

State regulations

California / Prop. 65:

None of the components are listed

Massachusetts / Right To Know Act:

potassium hydroxide;caustic potash is listed

sodium hydroxide;caustic soda is listed

New Jersey / Right To Know Act:

potassium hydroxide;caustic potash / Substance number: 1571

potassium hydroxide;caustic potash is on the Special Health Hazard Substance List

—

sodium hydroxide;caustic soda / Substance number: 1706

sodium hydroxide;caustic soda is on the Special Health Hazard Substance List

—

New York / Right To Know Act:

potassium hydroxide;caustic potash is listed
potassium hydroxide;caustic potash is regulated with a Reportable Quantity (RQ) of: 1000 pounds
potassium hydroxide;caustic potash is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds

—
sodium hydroxide;caustic soda is listed
sodium hydroxide;caustic soda is regulated with a Reportable Quantity (RQ) of: 1000 pounds
sodium hydroxide;caustic soda is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds

Pennsylvania / Right To Know Act:

potassium hydroxide;caustic potash is listed
potassium hydroxide;caustic potash is hazardous to the environment (E)

—
sodium hydroxide;caustic soda is listed
sodium hydroxide;caustic soda is hazardous to the environment (E)

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.
H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CERCLA = Comprehensive Environmental Response Compensation and Liability Act
DOT = Department of Transportation
EINECS = European Inventory of Existing Commercial chemical Substances
EPCRA = Emergency Planning and Community Right-To-Know Act
GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en