

SAFETY DATA SHEET

# Alu Klor Hårdt

SECTION 1: Identification of the substance/mixture and of the	e company/undertaking
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## 1.1. Product identifier

Trade name

Alu Klor Hårdt

Product no.

833

Unique formula identifier (UFI) WSPE-27PQ-H00X-G4G1

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

Relevant identified uses of the substance or mixture

Dishwasher detergent

Restricted to professional users.

## Use descriptors (UK REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC 35	Washing and Cleaning Products (including solvent based products)
Process category	Description
PROC 2	Use in closed, continuous PROC ess with occasional controlled exposure
Environmental release category	Description
ERC 4	Industrial use of processing aids in processes and products, not becoming part of articles

#### Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

## Company and address

Jysk Kemi Service A/S

Gl. Struervej 50 7500 Holstebro Denmark +45 9740 3133 +45 9740 4846 www.jyskkemi.dk

## Contact person

Rikke Hunskjær

E-mail

rikke@jyskkemi.dk Revision

## 03/07/2024

SDS Version

2.0

Date of previous version 15/08/2023 (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 112 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

## 2.1. ▼ Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.Eye Dam. 1; H318, Causes serious eye damage.STOT SE 3; H335, May cause respiratory irritation.Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

## 2.2. Label elements

Hazard pictogram(s)



## Signal word

Danger

## Hazard statement(s)

Causes severe skin burns and eye damage. (H314) May cause respiratory irritation. (H335) Harmful to aquatic life with long lasting effects. (H412)

#### Precautionary statement(s)

General

#### ▼ Prevention

#### ▼ 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 well-ventilated place. Keep container tightly closed. (P403+P233)

#### Disposal

Dispose of contents/container in accordance with local regulation

## (P501)

Hazardous substances disodium metasilicate

## sodium hypochlorite

#### soulum hypochio

Additional labelling

EUH031, Contact with acids liberates toxic gas.

## UFI: WSPE-27PQ-H00X-G4G1

▼ Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law

- 5% 15%
- · Phosphates
- < 5%
- · Chlorine-based bleaching Agents
- · Phosphonates

#### 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) 2018/605.

### 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
disodium metasilicate	CAS No.: 10213-79-3 EC No.: 600-279-4 UK-REACH: Index No.:	15-25%	Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	
pentapotassium triphosphate	CAS No.: 13845-36-8 EC No.: 237-574-9 UK-REACH: Index No.:	5-10%		
2-phosphonobutane-1,2,4- tricarboxylic acid	CAS No.: 037971-36-1 EC No.: 253-733-5 UK-REACH: Index No.:	1-3%	Met. Corr. 1, H290 Eye Irrit. 2, H319	
sodium hypochlorite	CAS No.: 7681-52-9 EC No.: 231-668-3 UK-REACH: Index No.: 017-011-00-1	1-3%	EUH031 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	

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.

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

## 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.

Get inineulate medical advice/att

## 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:

Halogenated compounds Carbon oxides (CO / CO2) Some metal oxides

Oxygen, hypochlorous acid, chlorine.

## 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: 2X

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. Avoid inhalation of vapours from spilled material. Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

#### 6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

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

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

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.

Recommended storage material

Keep only in original packaging.

## Storage temperature

> 0°C

### Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

#### 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 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

disodium metasilicate

disodium metasilicate		
Duration:	Route of exposure:	DNEL:
Long term	Dermal	1,49 mg/kg uge/dag
Long term	Inhalation	6,22 mg/m3
potassium hydroxide		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m³
Long term – Local effects - General population	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>
sodium hypochlorite		
Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	0,5%
Long term – Local effects - General population	Inhalation	1.55 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1.55 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	1,55 mg/m³
Long term – Systemic effects - General population	Inhalation	1.55 mg/m³
Long term – Systemic effects - Workers	Inhalation	1,55 mg/m³
Long term – Systemic effects - Workers	Inhalation	1.55 mg/m³
Short term – Local effects - General population	Inhalation	3,1 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	3.1 mg/m³
Short term – Local effects - Workers	Inhalation	3.1 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	3.1 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	3,1 mg/m³
Short term – Systemic effects - Workers	Inhalation	3.1 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	0,26 mg/kg legemsvægt/dag
Long term – Systemic effects - General population	Oral	260 µg/kgbw/day

#### **PNEC**

sodium hypochlorite		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,21 μg/l
Freshwater		210 ng/L



Intermittent release	0,26 μg/l
Intermittent release (freshwater)	260 ng/L
Marine water	0,042 μg/l
Marine water	42 ng/L
Predators	11.1 mg/kg
Sewage treatment plant	0,03 mg/l
Sewage treatment plant	4.69 mg/L

#### 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**

No specific requirements

## Skin protection

	, proceedenen			
	Recommended	Type/Category	Standards	
	No special when used as intended.	-	-	
Ha	nd protection			
	Material	Glove thickness (mm)	Breakthrough time	Standards

		(min.)		
Nitrile - Discard immediately after use	0.2	> 240	EN374-2, EN374-3, EN388	

## Eye protection

Туре	Standards	
In the likelihood of direct or incidental exposure, use face protection.	EN166	E

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties Physical state Liquid Colour



Pale vellow Odour / Odour threshold Characteristic pH 13,5 pH in solution 11 (0,2%) Density (g/cm<sup>3</sup>) 1.2 **Kinematic viscosity** No data available Particle characteristics Not applicable - product is a liquid Phase changes Melting point/Freezing point (°C) Not applicable - product is a liquid 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) Not applicable Data on fire and explosion hazards Flash point (°C) Not applicable - flash point > 200°C Flammability (°C) The material is not combustible. Auto-ignition temperature (°C) Testing not relevant or not possible due to the nature of the product. Lower and upper explosion limit (% v/v) Testing not relevant or not possible due to the nature of the product. Solubility Solubility in water Completely soluble n-octanol/water coefficient (LogKow) Testing not relevant or not possible due to the nature of the product. Solubility in fat (g/L) Testing not relevant or not possible due to the nature of the product. 9.2. Other information Oxidizing properties Testing not relevant or not possible due to the nature of the product. Other physical and chemical parameters No data available. SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Contact with acids liberates toxic gas. Reacts violently with alkali metals, metal powders, oxidizing materials and amines. 10.2. Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage". 10.3. Possibility of hazardous reactions Contact with acids liberates toxic gas. 10.4. Conditions to avoid Protect from sunlight. Do no expose to temperatures exceeding 20 °C/68 °F.

## 10.5. Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

## 10.6. Hazardous decomposition products Oxygen, hypochlorous acid, chlorine.

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

	and classes as defined in Regulation (EC) No 1272/2000 as retained and amended in or law
▼ Acute toxicity	
Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>5000 mg/kg
Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 5000 mg/kg ·
Product/substance	sodium hypochlorite
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	> 20000 mg/kg ·
Product/substance	sodium hypochlorite
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 10,5 mg/l ·
Product/substance	potassium hydroxide
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	333-388 mg/kgbw
▼ Skin corrosion/irritatio	
Product/substance	disodium metasilicate
Test method:	OECD 404
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)
Product/substance	sodium hypochlorite
Test method:	OECD 404
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Highly irritating)
Causes severe skin bu	
▼ Serious eye damage/ir	
Product/substance	disodium metasilicate
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)
Causes serious eye da	•
Respiratory sensitisation Based on available da	ta, the classification criteria are not met.
Skin sensitisation	
Product/substance	disodium metasilicate
Test method:	OECD 429



Species:	Mouse
Result:	No adverse effect observed (not sensitising)

 Germ cell mutagenicity Product/substance Conclusion:

disodium metasilicate No adverse effect observed

 Carcinogenicity Product/substance Conclusion:

disodium metasilicate No adverse effect observed

▼ Reproductive toxicity Product/substance Species: Result: Conclusion:

disodium metasilicate Rat, Sprague-Dawley, female >159 mg/kg bw/day No adverse effect observed

▼ STOT-single exposure Product/substance Route of exposure: Conclusion:

disodium metasilicate Inhalation Adverse effect observed

May cause respiratory irritation.

▼ STOT-repeated exposure Product/substance Conclusion: No adverse effect observed

#### 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

2.1. ▼Toxicity	
Product/substance	disodium metasilicate
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	210 mg/L
Product/substance	disodium metasilicate
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	1700 mg/L
Product/substance	disodium metasilicate
Test method:	DIN 38412
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	> 345,4 mg/L
Product/substance	2-phosphonobutane-1,2,4-tricarboxylic acid
Species:	Fish
-1	



Duration:	48 hours
Test:	LC50
Result:	> 500 mg/l ·
Product/substance	2-phosphonobutane-1,2,4-tricarboxylic acid
Species:	Daphnia
Duration:	24 hours
Test:	LC50
Result:	265 mg/l ·
Product/substance	2-phosphonobutane-1,2,4-tricarboxylic acid
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	140 mg/l ·
Product/substance	sodium hypochlorite
Species:	Fish
Duration:	7 days
Test:	LC50
Result:	0,03-0,6 mg/l ·
Product/substance	sodium hypochlorite
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,141 mg/l ·
Product/substance	notacsium hudrovido
Species:	potassium hydroxide Fish
Duration:	7 days
Test:	LC50
Result:	80 mg/l ·
Product/substance	potassium hydroxide
Shecles.	Fish
Species: Duration:	Fish 24 hours
•	
Duration:	24 hours
Duration: Test: Result:	24 hours LC50 165 mg/l ·
Duration: Test:	24 hours LC50
Duration: Test: Result: Product/substance	24 hours LC50 165 mg/l · potassium hydroxide
Duration: Test: Result: Product/substance Species:	24 hours LC50 165 mg/l · potassium hydroxide Crustacean
Duration: Test: Result: Product/substance Species: Duration:	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l ·
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life w 2.2. V Persistence and de	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects.
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. ▼ Persistence and de Based on available data	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability a, the classification criteria are not met.
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Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. V Persistence and de Based on available data 2.3. V Bioaccumulative po	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability a, the classification criteria are not met.
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. V Persistence and de Based on available data 2.3. V Bioaccumulative po Product/substance Conclusion:	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability o, the classification criteria are not met. otential disodium metasilicate No potential for bioaccumulation
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. ▼ Persistence and de Based on available data 2.3. ▼ Bioaccumulative po Product/substance	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability a, the classification criteria are not met. otential disodium metasilicate
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Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life w 2.2. ▼ Persistence and de Based on available data 2.3. ▼ Bioaccumulative po Product/substance Conclusion: Product/substance Conclusion: 2.4. Mobility in soil	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability o, the classification criteria are not met. otential disodium metasilicate No potential for bioaccumulation sodium hypochlorite
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life w 2.2. ▼ Persistence and de Based on available data 2.3. ▼ Bioaccumulative po Product/substance Conclusion: Product/substance Conclusion: 2.4. Mobility in soil No data available.	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability a, the classification criteria are not met. otential disodium metasilicate No potential for bioaccumulation sodium hypochlorite No potential for bioaccumulation
Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life w 2.2. ▼Persistence and de Based on available data 2.3. ▼ Bioaccumulative por Product/substance Conclusion: Product/substance Conclusion: 2.4. Mobility in soil No data available. 2.5. ▼ Results of PBT and	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. sgradability the classification criteria are not met. otential disodium metasilicate No potential for bioaccumulation sodium hypochlorite No potential for bioaccumulation
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Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. ▼Persistence and de Based on available data 2.3. ▼Bioaccumulative po Product/substance Conclusion: Product/substance Conclusion: 2.4. Mobility in soil No data available. 2.5. ▼Results of PBT and This mixture/product do 2.6. ▼Endocrine disruptin	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. togradability o, the classification criteria are not met. totential disodium metasilicate No potential for bioaccumulation sodium hypochlorite No potential for bioaccumulation vPvB assessment bes not contain any substances known to fulfil the criteria for PBT and vPvB classification. ng properties
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Duration: Test: Result: Product/substance Species: Duration: Test: Result: Harmful to aquatic life v 2.2. ▼Persistence and de Based on available data 2.3. ▼Bioaccumulative po Product/substance Conclusion: Product/substance Conclusion: 2.4. Mobility in soil No data available. 2.5. ▼Results of PBT and This mixture/product do 2.6. ▼Endocrine disruptin	24 hours LC50 165 mg/l · potassium hydroxide Crustacean 15 min EC50 22 mg/l · with long lasting effects. egradability b, the classification criteria are not met. otential disodium metasilicate No potential for bioaccumulation sodium hypochlorite No potential for bioaccumulation



This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

#### ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*) HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity HP 8 - Corrosive HP 12 - Release of an acute toxic gas HP 14 - Ecotoxic 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 15\* Alkalines Waste group H Waste group H

Specific labelling

## Contaminated packing

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

SECTION 14: Transport information

	14.1 14.2 UN / ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1760 CORROSIVE LIQUID, N.O.S. (disodiu metasilicate)	Transport hazard class: 8 Label: 8 Classification code: C9	п	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1760 CORROSIVE LIQUID, N.O.S. (disodiu metasilicate)	Transport hazard class: 8 Label: 8 Classification code: C9	п	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
ΙΑΤΑ	UN1760 CORROSIVE LIQUID, N.O.S. (disodiu metasilicate)	Transport hazard class: 8 Label: 8 Classification code: C9	П	No	See below for additional information.

#### \* Packing group

\*\* Environmental hazards

Additional information

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.

This product is within scope of the regulations of transport of dangerous goods. Hazchem Code: 2X 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.

- Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law 5% - 15%
  - Phosphates
  - < 5%
  - · Chlorine-based bleaching Agents
  - · Phosphonates

### 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

EUH031, Contact with acids liberates toxic gas.

H290, May be corrosive to metals.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

H400, Very toxic to aquatic life.

H410, Very toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen) PROC 2 = Use in closed, continuous PROC ess with occasional controlled exposure

PC 35 = Washing and Cleaning Products (including solvent based products)

ERC 4 = Industrial use of processing aids in processes and products, not becoming part of articles

## 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 classification of the substance/mixture in regard of environmental 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

## RH

## ▼ 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.

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