

## SAFETY DATA SHEET

# Drain Unblocker Sink Liquid Heavy Duty Formula-15-Minute Heavy Gel Drain Cleaner & Odour Remover-Drain Gel by Plumbo

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

### Trade name

Drain Unblocker Sink Liquid Heavy Duty Formula-15-Minute Heavy Gel Drain Cleaner & Odour Remover-Drain Gel by Plumbo

### Product no.

3046

### Unique formula identifier (UFI)

JJ4P-C2G4-Q00M-1GAT

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

### Relevant identified uses of the substance or mixture

Chemical product for treatment of pipes

### Uses advised against

None known.

## 1.3. Details of the supplier of the safety data sheet

### Company and address

#### **Krefting AS**

Postboks 164

1339 Vøyenenga

Norway

+47 67526085

<http://www.krefting.no/>

### Contact person

Manish Budathoki

### E-mail

[manish.budathoki@krefting.no](mailto:manish.budathoki@krefting.no)

### Revision

23/09/2024

### SDS Version

7.0

### Date of previous version

20/08/2024 (6.0)

## 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

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.

Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.

## 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)

Very toxic to aquatic life with long lasting effects. (H410)

### Precautionary statement(s)

#### General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

#### Prevention

Wear face 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)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)

Immediately call a POISON CENTER/doctor. (P310)

#### Storage

-

#### Disposal

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

### Hazardous substances

Sodium hypochlorite, solution

Potassium hydroxide

Sodium Hydroxide

Disodium metasilicate

N,N-dimethyltetradecylamine N-oksidi

### Additional labelling

EUH031, Contact with acids liberates toxic gas.

EUH206, Warning! Do not use together with other products. May release dangerous gases (chlorine).

UFI: JJ4P-C2G4-Q00M-1GAT

## 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
Sodium hypochlorite, solution	CAS No.: 7681-52-9 EC No.: 231-668-3 UK-REACH: Index No.: 017-011-00-1	≤ 6 %	EUH031 EUH206 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	
Potassium hydroxide	CAS No.: 1310-58-3 EC No.: 215-181-3 UK-REACH: Index No.: 019-002-00-8	≤ 3 %	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Eye Dam. 1, H318	
Sodium Hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	≤ 3 %	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318	
Disodium metasilicate	CAS No.: 6834-92-0 EC No.: 229-912-9 UK-REACH: Index No.: 014-010-00-8	≤ 3 %	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
N,N-dimethyltetradecylamine N-oxid	CAS No.: 3332-27-2 EC No.: 222-059-3 UK-REACH: Index No.:	≤ 2 %	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	

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

## Other information

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## 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

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 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

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: 2R

## 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. In the event of leakage to the surroundings, contact local environmental authorities.

### 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

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.

Store in a container with a resistant inner liner.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

#### 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/m<sup>3</sup>): 2

Sodium Hydroxide

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 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

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	740 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	1.49 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.55 mg/m <sup>3</sup>

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Long term – Systemic effects - Workers	Inhalation	6.22 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	740 µg/kgbw/day

#### N,N-dimethyltetradecylamine N-oksidi

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	5.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.53 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	6.2 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	440 µg/kgbw/day

#### Potassium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>

#### Sodium Hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>

#### Sodium hypochlorite, solution

Duration:	Route of exposure:	DNEL:
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/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.55 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	3.1 mg/m <sup>3</sup>
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/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	260 µg/kgbw/day

## PNEC

### Disodium metasilicate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		7.5 mg/L
Intermittent release (freshwater)		7.5 mg/L
Marine water		1 mg/L

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Sewage treatment plant		1 g/L
<b>N,N-dimethyltetradecylamine N-oxid</b>		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		33.5 µg/L
Freshwater sediment		5.24 mg/kg
Intermittent release (freshwater)		33.5 µg/L
Marine water		3.35 µg/L
Marine water sediment		524 µg/kg
Predators		11.1 mg/kg
Sewage treatment plant		24 mg/L
Soil		1.02 mg/kg
<b>Sodium hypochlorite, solution</b>		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		210 ng/L
Intermittent release (freshwater)		260 ng/L
Marine water		42 ng/L
Predators		11.1 mg/kg
Sewage treatment plant		4.69 mg/L

## 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 UKCA marked protective equipment.

#### Respiratory Equipment

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Type	Class	Colour	Standards
Må brukes med tilstrekkelig avtrekksventilasjon. Hvis nødvendig, bruk ansiktsmaske med filter ved luft som er farlig å puste inn. Bruk maske med ABEK-standard som beskyttelse mot irriterende nivåer.			



### Skin protection

Recommended	Type/Category	Standards
Ugjennomtrengelige klær. Det som er relevant verneutstyr, avhenger av konsentrasjonen og mengden av farlige stoffer på den aktuelle arbeidsstasjonen.		



### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0,35	> 480	EN374



### Eye protection

Type	Standards
Face shield alternatively 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

Colourless

#### Odour / Odour threshold

Characteristic

#### pH



-

**pH in solution**

13,8 (%)

**Density (g/cm<sup>3</sup>)**

-

**Relative density**

1,1650 (20 °C)

**Kinematic viscosity**

1 mPa.s (20 °C)

**Particle characteristics**

Does not apply to liquids.

**Phase changes****Melting point/Freezing point (°C)**

0

**Softening point/range (°C)**

Does not apply to liquids.

**Boiling point (°C)**

~ 100

**Vapour pressure**

2332 Pa (20 °C)

**Relative vapour density**

No relevant or available data due to the nature of the product.

**Decomposition temperature (°C)**

No relevant or available data due to the nature of the product.

**Data on fire and explosion hazards****Flash point (°C)**

No relevant or available data due to the nature of the product.

**Flammability (°C)**

No relevant or available data due to the nature of the product.

**Auto-ignition temperature (°C)**

No relevant or available data due to the nature of the product.

**Lower and upper explosion limit (% v/v)**

No relevant or available data due to the nature of the product.

**Solubility****Solubility in water**

No relevant or available data due to the nature of the product.

**n-octanol/water coefficient (LogKow)**

No relevant or available data due to the nature of the product.

**Solubility in fat (g/L)**

No relevant or available data due to the nature of the product.

**9.2. Other information****Evaporation rate (n-butylacetate = 100)**

0,300

**VOC (g/l)**

0.000 g/l

**Oxidizing properties**

No relevant or available data 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.

Warning! Do not use in combination with other products. May release dangerous gases (chlorine).

#### 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 not 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

##### Acute toxicity

Product/substance	Sodium hypochlorite, solution
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3000 mg/kg

Product/substance	Sodium hypochlorite, solution
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	≥ 5000 mg/kg

Product/substance	Sodium hypochlorite, solution
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	≥ 50 mg/L

Product/substance	Potassium hydroxide
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	356 mg/kg

Product/substance	Potassium hydroxide
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	≥ 5000 mg/kg

Product/substance	Potassium hydroxide
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Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result:  $\geq 50$  mg/kg

Product/substance Sodium Hydroxide  
 Species: Rabbit  
 Route of exposure: Oral  
 Test: LD lo  
 Result: 500 mg/kg

Product/substance Disodium metasilicate  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 1152 mg/kg

Product/substance Disodium metasilicate  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result:  $\geq 5000$  mg/kg

Product/substance Disodium metasilicate  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result:  $\geq 50$  mg/L

Product/substance N,N-dimethyltetradecylamine N-oxid  
 Species: Rat  
 Route of exposure: Oral  
 Test: LD50  
 Result: 1495 mg/kg

Product/substance N,N-dimethyltetradecylamine N-oxid  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result:  $\geq 5000$  mg/kg

Product/substance N,N-dimethyltetradecylamine N-oxid  
 Species: Rat  
 Route of exposure: Inhalation  
 Test: LC50  
 Result:  $\geq 50$  mg/L

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

**Respiratory sensitisation**

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	Sodium hypochlorite, solution
Species:	Fish, Pimephales promelas
Test:	LC50
Result:	0,22 -0,62 mg/L

Product/substance	Sodium hypochlorite, solution
Species:	Crustacean, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	141 mg/L

Product/substance	Sodium Hydroxide
Species:	Bacteria, Photobacterium phosphoreum
Duration:	15 minutes
Test:	EC50
Result:	22 mg/L

Product/substance	Sodium Hydroxide
Species:	Fish, Gambusia affinis
Duration:	96 hours
Test:	LC50

Result: 125 mg/L

Product/substance: Sodium Hydroxide  
 Species: Fish, *Poecilia reticulata*  
 Duration: 24 hours  
 Test: LC50  
 Result: 145 mg/L

Product/substance: Sodium Hydroxide  
 Species: Crustacean, *Ceriodaphnia dubia*  
 Duration: 48 hours  
 Test: EC50  
 Result: 40,4 mg/L

Product/substance: Disodium metasilicate  
 Species: Fish, *Brachydanio rerio*  
 Duration: 96 hours  
 Test: LC50  
 Result: 210 mg/L

Product/substance: Disodium metasilicate  
 Species: Algae  
 Duration: 72 hours  
 Test: EC50  
 Result: 207 mg/L

Product/substance: Disodium metasilicate  
 Species: Crustacean, *Daphnia*  
 Duration: 48 hours  
 Test: EC50  
 Result: 1700 mg/L

Product/substance: N,N-dimethyltetradecylamine N-oxid  
 Species: Fish, *Oncorhynchus mykiss*  
 Duration: 96 hours  
 Test: LC50  
 Result: 0,1 -1,0 mg/L

Product/substance: N,N-dimethyltetradecylamine N-oxid  
 Species: Crustacean, *Daphnia magna*  
 Duration: 48 hours  
 Test: EC50  
 Result: 0,1 -1,0 mg/L

Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

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

#### 12.3. Bioaccumulative potential

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

#### 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**

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 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**



Produktet kan slippes ut i angitt prosentuell utnyttelsesgrad hvis det er nøytralisert til pH 7.  
Eventuelle begrensninger fastsatt av lokale myndigheter må alltid følges.

**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:
AD R	UN171 9	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite, solution, Potassium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C5  	II	Yes	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IM DG	UN171 9	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite, solution, Potassium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C5  	II	Yes	Limited quantities: 1 L EmS: F-A S-B See below for additional information.

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
IAT A	UN171 9	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite, solution, Potassium hydroxide)	Transport hazard class: 8 Label: 8 Classification code: C5	II	Yes	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: 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

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

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

#### Additional information

Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

Control of Major Accident Hazards (COMAH) Regulations 2015.

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.

EUH206, Warning! Do not use together with other products. May release dangerous gases (chlorine).

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.

H335, May cause respiratory irritation.

H400, Very toxic to aquatic life.

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

H411, Toxic to aquatic life with long lasting effects.

## 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

Manish Budathoki

#### 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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