

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

Product form	: Mixture
Trade name	: Mida FOAM 172 KH
UFI	: GP94-PSM3-3308-0GQN
Product code	: ES-BTG-A1311180
Type of product	: Detergent
Product group	: CFH Product

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

Main use category	: Professional use, Industrial use
Industrial/Professional use spec	: Industrial For professional use only
Use of the substance/mixture	: Alkaline foam detergent Detergent
Function or use category	: Detergent

**1.2.2. Uses advised against**

Restrictions on use	: For professional use only
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**1.3. Details of the supplier of the safety data sheet**
**Supplier**

Christeyns España, SLU  
C/ Científica Margarita Salas Falgueras, 2  
P.I. Raconc  
ES 46729 Ador - Valencia, Spain, Valencia  
Spain  
T +34 962 871 345, F +34 962 875 867  
[info.ES@christeyns.com](mailto:info.ES@christeyns.com), [www.christeyns.com](http://www.christeyns.com)

**1.4. Emergency telephone number**

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

**SECTION 2: Hazards identification**
**2.1. Classification of the substance or mixture**
**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.

**2.2. Label elements**
**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP)



GHS05

: Danger

CLP Signal word

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Contains	: Sodium metasilicate pentahydrate; Alkyl polyglucoside; Laurylethoxy(3EO)sulphate, sodium salt; Potassium hydroxide; Ethylenediaminetetraacetic acid, tetrasodium salt solution
Hazard statements (CLP)	: H290 - May be corrosive to metals. H314 - Causes severe skin burns and eye damage.
Precautionary statements (CLP)	: P280 - Wear protective clothing, eye protection, face protection. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor. P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a doctor. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. P390 - Absorb spillage to prevent material damage.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium metasilicate pentahydrate (10213-79-3), Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium metasilicate pentahydrate (10213-79-3), Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium hydroxide substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, IS, NO, CH)	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892-27	10 – 30	Met. Corr. 1, H290 Skin Corr. 1A, H314
Potassium hydroxide substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, PL, PT, SE, IS, NO, CH)	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33	3 – 5	Acute Tox. 4 (Oral), H302 (ATE=333 mg/kg bodyweight) Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290
Sodium metasilicate pentahydrate	CAS-no: 10213-79-3 REACH-no: 01-2119449811-37	1 – 3	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Ethylenediaminetetraacetic acid, tetrasodium salt solution	CAS-no: 64-02-8 Einecs nr: 200-573-9 EG annex nr: 607-428-00-2 REACH-no: 01-2119486762-27	1 – 3	Acute Tox. 4 (Oral), H302 (ATE=1780 mg/kg bodyweight) Acute Tox. 4 (Inhalation:gas), H332 (ATE=4500 ppmv/4h) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1 mg/l/4h) Eye Dam. 1, H318 STOT RE 2, H373
Alkyl polyglucoside	CAS-no: 68515-73-1 Einecs nr: 500-220-1 REACH-no: 01-2119488530-36	1 – 3	Eye Dam. 1, H318
Laurylethoxy(3EO)sulphate, sodium salt	CAS-no: 68891-38-3 Einecs nr: 500-234-8 REACH-no: 01-2119488639-16	1 – 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amines, C12-14, alkylidimethyl, N-oxides	CAS-no: 308062-28-4 Einecs nr: 931-292-6 REACH-no: 01-2119490061-47	< 1	Acute Tox. 4 (Oral), H302 (ATE=1064 mg/kg bodyweight) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
Sodium hydroxide	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892-27	(0.5 ≤ C < 2) Eye Irrit. 2, H319 (0.5 ≤ C < 2) Skin Irrit. 2, H315 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314	
Potassium hydroxide	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136-33	(0.5 ≤ C < 2) Eye Irrit. 2, H319 (0.5 ≤ C < 2) Skin Irrit. 2, H315 (2 ≤ C < 5) Skin Corr. 1B, H314 (5 ≤ C ≤ 100) Skin Corr. 1A, H314	
Alkyl polyglucoside	CAS-no: 68515-73-1 Einecs nr: 500-220-1 REACH-no: 01-2119488530-36	(5 ≤ C < 100) Eye Dam. 1, H318	
Laurylethoxy(3EO)sulphate, sodium salt	CAS-no: 68891-38-3 Einecs nr: 500-234-8 REACH-no: 01-2119488639-16	(5 ≤ C < 10) Eye Irrit. 2, H319 (10 ≤ C < 100) Eye Dam. 1, H318	

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice

: Call a physician immediately. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

Skin contact

: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Eye contact

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Immediately call a POISON CENTER/doctor.

Ingestion

: Rinse mouth. Do not induce vomiting. Call a physician immediately. Do NOT induce vomiting. Obtain emergency medical attention.

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

Acute effects skin

: Burns.

Acute effects eyes

: Serious damage to eyes. Causes serious eye damage.

Acute effects oral route

: Burns.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media

: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

: Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours, Spray. Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up

: Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material damage.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

: May be corrosive to metals.

Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe Spray, vapours. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures

: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

: Strong bases. Strong acids.

Incompatible materials

: Metals. Sources of ignition. Direct sunlight.

Packaging materials

: Store in corrosive resistant container with a resistant inner liner.

#### 7.3. Specific end use(s)

Detergent.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

###### Potassium hydroxide (1310-58-3)

###### Ireland - Occupational Exposure Limits

Local name	Potassium hydroxide
OEL STEL	2 mg/m <sup>3</sup>
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024

###### United Kingdom - Occupational Exposure Limits

Local name	Potassium hydroxide
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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<b>Sodium hydroxide (1310-73-2)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
OEL STEL	2 mg/m <sup>3</sup>
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure. Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

#### Eye protection:

Use eye protection according to EN 166, designed to protect against liquid splashes. Safety glasses. Chemical goggles or safety glasses

##### 8.2.2.2. Skin protection

#### Protective equipment:

Wear suitable protective clothing. Emergency safety showers should be available in the immediate vicinity of any potential exposure

#### Hand protection:

Protective gloves. Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). Wear protective gloves.

##### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Provide adequate ventilation. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask

##### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colourless to yellow.
Physical state/form	: Liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/range	: Not applicable
Freezing point	: Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range	: Not determined as it is not relevant for the characterization of the product
Flammability	: Not determined as it is not relevant for the characterization of the product The product is not flammable
Explosive properties	: Product is not explosive.
Lower explosion limit	: Constituents do not contain chemical groups associated with explosivity
Upper explosion limit	: Constituents do not contain chemical groups associated with explosivity
Flash point	: Not determined as it is not relevant for the characterization of the product
Autoignition temperature	: Determination of the auto-ignition temperature is only relevant for pyrophoric liquids, however the mixture is not a pyrophoric liquid so the test is not required.
Decomposition temperature	: Only applies to self-reactive substances and mixtures, organic peroxides, and other substances and mixtures that may decompose.
pH	: 12.1 – 13.5 1%, 25°C
Viscosity, kinematic	: Not available
Solubility	: soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: > 1.2 g/ml
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : <

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

metals. Strong acids. Strong bases. May be corrosive to metals.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### **Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)**

LD50 oral rat	4100 ml/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight

#### **Potassium hydroxide (1310-58-3)**

LD50 oral rat	333 mg/kg
LD50 oral	333 mg/kg bodyweight

#### **Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4)**

LD50 oral rat	1064 mg/kg
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#### **Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)**

LD50 oral	1780 mg/kg
LC50 Inhalation - Rat	1 – 5 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	1 – 5 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns. pH: 12.1 – 13.5 1%, 25°C
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Additional information	: Based on available data, the classification criteria are not met
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#### **Sodium metasilicate pentahydrate (10213-79-3)**

pH	≥ 12 1% diluted
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#### **Potassium hydroxide (1310-58-3)**

pH	≈ 13.5
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#### **Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)**

pH	11 – 12 , 1%
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Serious eye damage/irritation	: Causes serious eye damage. pH: 12.1 – 13.5 1%, 25°C
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#### **Sodium metasilicate pentahydrate (10213-79-3)**

pH	≥ 12 1% diluted
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#### **Potassium hydroxide (1310-58-3)**

pH	≈ 13.5
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#### **Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)**

pH	11 – 12 , 1%
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Respiratory or skin sensitisation	: Not classified
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Additional information	: Based on available data, the classification criteria are not met
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Germ cell mutagenicity	: Not classified
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Additional information	: Based on available data, the classification criteria are not met
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Carcinogenicity	: Not classified
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Additional information	: Based on available data, the classification criteria are not met
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Reproductive toxicity	: Not classified
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Additional information	: Based on available data, the classification criteria are not met
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STOT-single exposure	: Not classified
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Additional information	: Based on available data, the classification criteria are not met
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#### **Sodium metasilicate pentahydrate (10213-79-3)**

STOT-single exposure	May cause respiratory irritation.
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### **Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)**

NOAEL (oral, rat)	> 300 mg/kg bodyweight
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### **Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)**

NOAEL (oral, rat, 90 days)	> 225 mg/kg bodyweight/day
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### **Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)**

LOAEL (oral, rat, 90 days)	1780 mg/kg bodyweight/day
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

### **Potassium hydroxide (1310-58-3)**

Viscosity, kinematic	1.252 mm <sup>2</sup> /s
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## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

### 11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### **Sodium metasilicate pentahydrate (10213-79-3)**

LC50 - Fish [1]	210 mg/l
EC50 - Crustacea [1]	1700 mg/l

### **Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)**

LC50 - Fish [1]	> 1 mg/l
EC50 - Crustacea [1]	7.2 mg/l
EC50 72h - Algae [1]	27.7 mg/l
NOEC chronic crustacea	0.27 mg/l

### **Potassium hydroxide (1310-58-3)**

LC50 - Fish [1]	80 mg/l
EC50 - Crustacea [1]	30 – 1000 mg/l (OECD 202)

### **Amines, C12-14, alkylidimethyl, N-oxides (308062-28-4)**

LC50 - Fish [1]	2.67 mg/l
EC50 - Crustacea [1]	3.1 mg/l
ErC50 algae	0.143 mg/l
NOEC chronic algae	≥ 0.0191 mg/l

### **Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)**

LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 500 mg/l
EC50 - Other aquatic organisms [1]	140 mg/l

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<b>Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)</b>	
EC50 72h - Algae [1]	> 100 mg/l
ErC50 algae	> 300 mg/l
NOEC chronic fish	≥ 25.7 mg/l
<b>Sodium hydroxide (1310-73-2)</b>	
LC50 - Fish [1]	> 35 mg/l
EC50 - Crustacea [1]	40.4 mg/l (Ceriodaphnia)
EC50 - Other aquatic organisms [1]	> 33 mg/l waterflea
<b>12.2. Persistence and degradability</b>	
<b>Mida FOAM 172 KH</b>	
Persistence and degradability	Not established.
<b>Sodium metasilicate pentahydrate (10213-79-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Alkyl polyglucoside (68515-73-1)</b>	
Persistence and degradability	Rapidly degradable
<b>Laurylethoxy(3EO)sulphate, sodium salt (68891-38-3)</b>	
Persistence and degradability	Readily biodegradable.
<b>Potassium hydroxide (1310-58-3)</b>	
Persistence and degradability	Rapidly degradable
<b>Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4)</b>	
Persistence and degradability	Rapidly degradable
<b>Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)</b>	
Persistence and degradability	Rapidly degradable
<b>Sodium hydroxide (1310-73-2)</b>	
Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.
<b>12.3. Bioaccumulative potential</b>	
<b>Mida FOAM 172 KH</b>	
Partition coefficient n-octanol/water (Log Kow)	Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.
Bioaccumulative potential	Not established.
<b>Potassium hydroxide (1310-58-3)</b>	
Log Pow	0.75
<b>Amines, C12-14, alkyldimethyl, N-oxides (308062-28-4)</b>	
Partition coefficient n-octanol/water (Log Kow)	> 2.7
<b>Sodium hydroxide (1310-73-2)</b>	
Log Pow	-3.88
Bioaccumulative potential	No bioaccumulation.
<b>12.4. Mobility in soil</b>	
No additional information available	
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>Component</b>	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Sodium metasilicate pentahydrate (10213-79-3), Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Sodium metasilicate pentahydrate (10213-79-3), Ethylenediaminetetraacetic acid, tetrasodium salt solution (64-02-8)

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### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information

: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Waste / unused products

: Avoid release to the environment.

HP Code

: HP8 - "Corrosive:" waste which on application can cause skin corrosion.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
<b>14.1. UN number or ID number</b>		
UN 3266	UN 3266	UN 3266
<b>14.2. UN proper shipping name</b>		
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide)	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide)	Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide)
<b>Transport document description</b>		
UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide), 8, II, (E)	UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide), 8, II	UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide CONTAINS : Sodium hydroxide ; Potassium hydroxide), 8, II
<b>14.3. Transport hazard class(es)</b>		
8	8	8
<b>14.4. Packing group</b>		
II	II	II
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 1I
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BN
Tank special provisions (ADR)	: TU42
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80

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Orange plates

80
3266

Tunnel code

: E

EAC code

: 2X

### Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02

### Air transport

PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Detergent Regulation (648/2004)

#### Labelling of contents

Component	%
non-ionic surfactants, anionic surfactants, EDTA and salts thereof	<5%

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes

Section	Changed item	Change	Comments
	Special provisions for RID tanks (RID)	Added	
	Review date	Added	
	Supersedes	Added	
	Tank special provisions (ADR)	Added	
	UN-No. (RID)	Modified	
	Proper Shipping Name (RID)	Modified	
	Proper Shipping Name (IATA)	Modified	
	Proper Shipping Name (IMDG)	Modified	
1.1	UFI on SDS 1.1	Added	
3	Composition/information on ingredients	Modified	
4.1	General advice	Modified	
4.1	Skin contact	Modified	
4.1	Ingestion	Modified	
4.1	Eye contact	Modified	
4.2	Acute effects eyes	Modified	
5.3	Protection during firefighting	Modified	
5.3	EAC code	Modified	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Incompatible materials	Modified	
7.2	Storage conditions	Modified	
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
9.1	Density	Modified	
9.1	pH	Modified	
10.5	Material(s) to avoid	Modified	
14.1	UN-No. (ADN)	Modified	
14.1	UN-No. (ADR)	Modified	
14.1	UN-No. (IMDG)	Modified	
14.1	UN-No. (IATA)	Modified	
14.2	Proper Shipping Name (ADN)	Modified	
14.2	Proper shipping name	Modified	

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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<b>Abbreviations and acronyms:</b>	
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources

: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

<b>Full text of H- and EUH-statements:</b>	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2

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### Full text of H- and EUH-statements:

Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Met. Corr. 1	H290	Calculation method
Skin Corr. 1	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.