

## SAFETY DATA SHEET

# Maskinopvask med klor til alu

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

### 1.1. Product identifier

**Trade name**

Maskinopvask med klor til alu

**Product no.**

818

**Unique formula identifier (UFI)**

X0J9-V7C8-300M-72D8

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

**Relevant identified uses of the substance or mixture**

Dishwasher detergent

**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 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
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 Hunsbjerg

**E-mail**

rikke@jyskkemi.dk

**Revision**

04/04/2023

**SDS Version**

1.0

### 1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 "First aid measures".

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended S.I. 2019 No. 758

Eye Dam. 1; H318, Causes serious eye damage.

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statements

General

-

Prevention

Do not breathe vapour/mist. (P260)

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

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (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

-

Disposal

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

Hazardous substances

disodium metasilicate

sodium hypochlorite

Additional labelling

EUH031, Contact with acids liberates toxic gas.

UFI: X0J9-V7C8-300M-72D8

## 2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

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
pentapotassium triphosphate	CAS No.: 13845-36-8 EC No.: 237-574-9 UK-REACH: Index No.:	5-10%		
disodium metasilicate	CAS No.: 10213-79-3 EC No.: 600-279-4 UK-REACH: Index No.:	5-10%	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335	
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

-

#### 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

### 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

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. 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 returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

##### Burns

Not applicable.

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

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

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

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

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

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Not applicable.

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

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

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

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: 2X

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

### 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

Protect from sunlight.

#### 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

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	Dermal	1,49 mg/kg uge/dag

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Long term	Inhalation	6,22 mg/m <sup>3</sup>
potassium hydroxide		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Local effects - General population	Inhalation	1 mg/m <sup>3</sup>
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>
Long term – Local effects - Workers	Inhalation	1 mg/m <sup>3</sup>
sodium hypochlorite		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
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/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>
Long term – Systemic effects - Workers	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 - 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>
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

<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
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.

#### 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. Always wash 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

Recommended	Type/Category	Standards
No special when used as intended	-	-

##### Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Vinyl/PVC - Discard immediately after use	0.12	-	EN374-2



##### Eye protection

Type	Standards

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Pale yellow

#### Odour / Odour threshold

Characteristic

#### pH

14

#### pH in solution

10 (0,3%)

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

1.09 (20 °C)

#### 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 (waxes and pastes) (°C)

Does not apply to liquids.

##### Boiling point (°C)

100

##### Vapour pressure

No data available

##### Relative vapour density

Testing not relevant or not possible due to the nature of the product.

##### Decomposition temperature (°C)

No data available

#### 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)

Not applicable

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

Not applicable

#### Solubility

##### Solubility in water

Completely soluble

##### n-octanol/water coefficient

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

##### Evaporation rate (n-butylacetate = 100)

No data available

##### 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 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.

### 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	disodium metasilicate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1152-1349 mg/kg ·

Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 2,06 g/m3 ·

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/irritation

Product/substance sodium hypochlorite  
 Test method: OECD 404  
 Species: Rabbit  
 Duration: No data available.  
 Result: Adverse effect observed (Highly irritating)

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

Not applicable.

#### Other information

None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance disodium metasilicate  
 Species: Fish  
 Duration: 7 days  
 Test: LC50



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Result: 210 mg/l ·

Product/substance disodium metasilicate  
 Species: Daphnia  
 Duration: 7 days  
 Test: EC50  
 Result: 1700 mg/l ·

Product/substance disodium metasilicate  
 Species: Algae  
 Duration: 72 hours  
 Test: EC50  
 Result: > 345,4 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 potassium hydroxide  
 Species: Fish  
 Duration: 7 days  
 Test: LC50  
 Result: 80 mg/l ·

Product/substance potassium hydroxide  
 Species: Fish  
 Duration: 24 hours  
 Test: LC50  
 Result: 165 mg/l ·

Product/substance potassium hydroxide  
 Species: Crustacean  
 Duration: 15 min  
 Test: EC50  
 Result: 22 mg/l ·

## 12.2. Persistence and degradability

No data available.

## 12.3. Bioaccumulative potential

Product/substance disodium metasilicate  
 Test method:  
 Potential bioaccumulation: No  
 LogPow: No data available.  
 BCF: No data available.  
 Other information:

Product/substance sodium hypochlorite  
 Test method:  
 Potential bioaccumulation: No  
 LogPow: No data available.  
 BCF: No data available.  
 Other information:

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or

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vPvB.

#### 12.6. Endocrine disrupting properties

Not applicable.

#### 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

20 01 15\* Alkalines

Waste group H Waste group H


#### Specific labelling

Not applicable.

#### Contaminated packing

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

### SECTION 14: Transport information

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

##### 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

H314, 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.

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 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

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

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  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
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 blue triangle.

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

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

Country-language: GB-en