

SAFETY DATA SHEET

# Desirens

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

### 1.1. Product identifier

Trade name

Desirens

Product no.

102

Unique formula identifier (UFI)

3T7W-H07P-Y00Y-PD5W

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

Relevant identified uses of the substance or mixture

Professional uses.

Use descriptors (UK REACH)

Sectors of use	Description
LCS "C"	Consumer uses: Private households (= general public = consumers)
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
PROC 19	Hand-mixing with intimate contact and only PPE available
PROC 28	Manual maintenance (cleaning and repair) of machinery
Environmental release category	Description
ERC 8a	Wide dispersive indoor use of processing aids in open systems
ERC 8b	Wide dispersive indoor use of reactive substances in open systems

Uses advised against

None known.

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

Company and address

**Jysk Kemi Service A/S**

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7500 Holstebro

Denmark

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www.jyskkemi.dk

Contact person

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Revision

18/01/2024

SDS Version

4.0

Date of previous version

29/03/2023 (3.0)

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

#### 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

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

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.  
Eye Dam. 1; H318, Causes serious eye damage.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

#### ▼ Hazard statement(s)

Causes skin irritation. (H315)  
Causes serious eye damage. (H318)

Precautionary statement(s)

#### ▼ General

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

#### ▼ Prevention

Wash hands and exposed skin thoroughly after handling. (P264)  
Wear eye protection/face protection/protective gloves. (P280)

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. (P305+P351+P338)  
Immediately call a POISON CENTER/doctor. (P310)

Storage

-

#### ▼ Disposal

-

#### ▼ Hazardous substances

2-Propylheptanol ethoxylate

Additional labelling

UFI: 3T7W-H07P-Y00Y-PD5W

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

5% - 15%

· Non-ionic surfactants

< 5%

· Cationic surfactants

· Phosphates

#### 2.3. Other hazards

#### ▼ Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.  
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2-Propylheptanol ethoxylate	CAS No.: 160875-66-1	10-15%	Acute Tox. 4, H302	

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

	EC No.: 605-233-7 UK-REACH: Index No.:		Eye Dam. 1, H318	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS No.: 68424-85-1 EC No.: 270-325-2 UK-REACH: Index No.:	1-3%	Acute Tox. 4, H302 Skin Corr. 1B, H314	[19]
tetrapotassium pyrophosphate	CAS No.: 7320-34-5 EC No.: 230-785-7 UK-REACH: Index No.:	1-3%	Eye Irrit. 2, H319	

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

#### Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

### 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

IF ON SKIN: Wash with plenty of water/water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. 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

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

##### Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

#### 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.

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

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

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

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

Some metal oxides

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

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

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

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

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

Avoid direct contact with the product.

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

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

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

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

#### Recommended storage material

Keep only in original packaging.

#### Storage temperature

> 0°C

#### Incompatible materials

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

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

#### DNEL

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	3.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	5.7 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.64 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	3.96 mg/m <sup>3</sup>

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

Long term – Systemic effects - General population	Oral	3.4 mg/kg bw/day
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**PNEC**  
 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		420 ng/L
Freshwater sediment		68 mg/kg
Intermittent release (freshwater)		160 ng/L
Intermittent release (marine water)		207 ng/L
Marine water		96 ng/L
Marine water sediment		15.75 mg/kg
Sewage treatment plant		160 µg/L
Soil		1.66 mg/kg

## 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

Take off contaminated clothing and wash it before reuse.

### ▼ Measures to avoid environmental exposure

No specific requirements.

## 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
Nitrile - Discard immediately after use	0.2	> 240	EN374-2, EN374-3, EN388



### Eye protection

Type	Standards

## SECTION 9: Physical and chemical properties

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

#### Physical state

Liquid

#### Colour

Clear

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

#### Odour / Odour threshold

Faint

#### pH

9,9

#### pH in solution

(0,5%)

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

1.02

#### 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

No data available

##### Decomposition temperature (°C)

Not applicable

#### Data on fire and explosion hazards

##### Flash point (°C)

Not applicable - flash point > 200°C

##### Flammability (°C)

Not applicable

##### 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 (LogKow)

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

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

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

#### 9.2. Other information

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

No data available

##### Oxidizing properties

Not applicable

##### Other physical and chemical parameters

No data available.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

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

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## 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	2-Propylheptanol ethoxylate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	300-2000 mg/kg ·

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	795 mg/kg ·

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Route of exposure:	Dermal
Test:	LD50
Result:	> 5000 mg/kg ·

Product/substance	tetrapotassium pyrophosphate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	> 2000 mg/kg ·

#### ▼ Skin corrosion/irritation

Product/substance	2-Propylheptanol ethoxylate
Result:	No adverse effect observed (Not irritating)

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Result:	Adverse effect observed (Corrosive)

Causes skin irritation.

#### ▼ Serious eye damage/irritation

Product/substance	2-Propylheptanol ethoxylate
Result:	Adverse effect observed (Causes serious eye damage)

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

#### ▼ Respiratory sensitisation

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Result:	No adverse effect observed (not sensitising)

#### ▼ Skin sensitisation

Product/substance	2-Propylheptanol ethoxylate
Result:	No adverse effect observed (not sensitising)

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Result:	No adverse effect observed (not sensitising)

#### ▼ Germ cell mutagenicity

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Conclusion:	No adverse effect observed

#### Carcinogenicity

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
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According to REACH Regulation (EC) No 1907/2006, as retained and amended SI 2019/758 and SI 2020/1577

Conclusion:	No adverse effect observed
<b>Reproductive toxicity</b>	
Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Conclusion:	No adverse effect observed
<b>STOT-single exposure</b>	
Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Conclusion:	No adverse effect observed
<b>▼ STOT-repeated exposure</b>	
Product/substance	2-Propylheptanol ethoxylate
Result:	50-700 mg/kg
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Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Conclusion:	No adverse effect observed
<b>Aspiration hazard</b>	
Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Conclusion:	Aspiration hazard not applicable
<b>11.2. Information on other hazards</b>	
<b>Long term effects</b>	
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.	
<b>▼ Endocrine disrupting properties</b>	
Product/substance	2-Propylheptanol ethoxylate
Conclusion:	No adverse effect observed
<b>Other information</b>	
None known.	

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

Product/substance	2-Propylheptanol ethoxylate
Species:	Fish, <i>Oncorhynchus mykiss</i>
Duration:	96 hours
Test:	LC50
Result:	10-100 mg/L

Product/substance	2-Propylheptanol ethoxylate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	10-100 mg/l ·

Product/substance	2-Propylheptanol ethoxylate
Species:	Algae, <i>Scenedesmus subspicatus</i>
Duration:	72 hours
Result:	10-100 mg/L

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Species:	Fish, <i>Oncorhynchus mykiss</i>
Duration:	96 hours
Test:	LC50
Result:	0,85 mg/l ·

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Test method:	OECD 201
Species:	Algae, <i>Selenastrum capricornutum</i>
Duration:	72 hours
Test:	EC50
Result:	0,025 mg/l ·



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

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	0,016 mg/l ·

Product/substance	tetrapotassium pyrophosphate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	> 100 mg/l ·

Product/substance	tetrapotassium pyrophosphate
Species:	Daphnia
Duration:	48 hours
Test:	LC50
Result:	> 100 mg/l ·

### 12.2. ▼ Persistence and degradability

Product/substance	2-Propylheptanol ethoxylate
Biodegradable:	Yes
Test method:	OECD 301 D

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Biodegradable:	Yes
Test method:	OECD 301 D
Result:	> 60%

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 12.3. ▼ Bioaccumulative potential

Product/substance	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
Potential bioaccumulation:	No
LogKow:	No data available.
BCF:	No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. ▼ Results of PBT and vPvB assessment

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

### 12.6. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. ▼ Other adverse effects

None known.

## SECTION 13: Disposal considerations

### ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste. (\*)  
 HP 4 - Irritant (skin irritation and eye damage)  
 Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWG code

Waste group H Waste group H

### ▼ Specific labelling

#### Contaminated packing

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

## SECTION 14: Transport information

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

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

#### 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

No special.

#### Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

Not applicable.

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

5% - 15%

· Non-ionic surfactants

< 5%

· Cationic surfactants

· Phosphates

#### Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### 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

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

#### The full text of identified uses as mentioned in section 1

LCS "C" = Consumer uses: Private households (= general public = consumers)

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

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

PROC 19 = Hand-mixing with intimate contact and only PPE available  
PROC 28 = Manual maintenance (cleaning and repair) of machinery  
PC 35 = Washing and Cleaning Products (including solvent based products)  
ERC 8a = Wide dispersive indoor use of processing aids in open systems  
ERC 8b = Wide dispersive indoor use of reactive substances in open systems

#### 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  
IARC = International Agency for Research on Cancer (IARC)  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SCL = A specific concentration limit  
SVHC = Substances of Very High Concern  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

#### ▼ Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

#### ▼ The safety data sheet is validated by

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