

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

##### Leather Care

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

##### Relevant identified uses of the substance or mixture:

Care components

##### Uses advised against:

No information available at present.

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

GB

LIQUI MOLY GmbH  
Jerg-Wieland-Str. 4  
89081 Ulm-Lehr  
Tel.: (+49) 0731-1420-0  
Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

##### Emergency information services / official advisory body:

GB

Landspítali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

##### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)  
+1 872 5888271 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labeling according to Regulation (EC) 1272/2008 (CLP)

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H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.  
 P501-Dispose of contents / container to an approved waste disposal facility.

EUH208-Contains 2-Octyl-2H-isothiazol-3-one, 4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

### 2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).  
 The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).  
 The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one</b>	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	259-174-3
CAS	54464-57-2
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410 (M=1)
<b>Octamethylcyclotetrasiloxane</b>	
	<b>PBT-substance</b> <b>vPvB-substance</b> <b>SVHC-substance</b>
Registration number (REACH)	01-2119529238-36-XXXX
Index	014-018-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	209-136-7
CAS	556-67-2
content %	0,025-<0,1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)
<b>4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde</b>	
Registration number (REACH)	---
Index	605-040-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	250-863-4
CAS	31906-04-4
content %	0,01-<0,1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1A, H317
<b>1,2-benzisothiazol-3(2H)-one</b>	
Registration number (REACH)	01-2120761540-60-XXXX
Index	613-088-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	220-120-9
CAS	2634-33-5
content %	0,0036-<0,036

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<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Acute Tox. 2, H330 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)
<b>Specific Concentration Limits and ATE</b>	Skin Sens. 1A, H317: $\geq 0,036\%$ ATE (oral): 450 mg/kg ATE (as inhalation, Mist): 0,21 mg/l/4h ATE (as inhalation, Vapours): 0,5 mg/l/4h

<b>Pyridine-2-thiol 1-oxide, sodium salt</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	613-344-00-7
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	223-296-5
<b>CAS</b>	3811-73-2
<b>content %</b>	0,0025-<0,025
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	EUH070 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 (nervous system) Aquatic Acute 1, H400 (M=100) Aquatic Chronic 2, H411
<b>Specific Concentration Limits and ATE</b>	ATE (oral): 500 mg/kg ATE (dermal): 790 mg/kg ATE (as inhalation, Dusts or mist): 0,5 mg/l ATE (as inhalation, Vapours): 3 mg/l/4h

<b>2-Octyl-2H-isothiazol-3-one</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	613-112-00-5
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	247-761-7
<b>CAS</b>	26530-20-1
<b>content %</b>	0,00015-<0,0015
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	EUH071 Acute Tox. 2, H330 Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
<b>Specific Concentration Limits and ATE</b>	Skin Sens. 1A, H317: $\geq 0,0015\%$ ATE (oral): 125 mg/kg ATE (dermal): 311 mg/kg ATE (as inhalation, Dusts or mist): 0,27 mg/l/4h ATE (as inhalation, Vapours): 0,5 mg/l/4h

<b>2-methylisothiazol-3(2H)-one</b>	
<b>Registration number (REACH)</b>	01-2120764690-50-XXXX
<b>Index</b>	613-326-00-9
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	220-239-6
<b>CAS</b>	2682-20-4
<b>content %</b>	<0,0015

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<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	EUH071 Acute Tox. 2, H330 Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
<b>Specific Concentration Limits and ATE</b>	Skin Sens. 1A, H317: $\geq 0,0015$ % ATE (oral): 120 mg/kg ATE (dermal): 242 mg/kg ATE (as inhalation, Dusts or mist): 0,11 mg/l/4h ATE (as inhalation, Vapours): 0,5 mg/l/4h

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.  
 For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.  
 The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Wash thoroughly with soap and water.  
 Remove contaminated clothing immediately.

#### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.  
 Give copious water to drink - consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.  
 Sensitive individuals:  
 Allergic reaction possible.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Adapt to the nature and extent of fire.

#### Unsuitable extinguishing media

None known

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

In case of fire the following can develop:  
 Oxides of carbon  
 Oxides of nitrogen  
 Formaldehyde

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Silicon dioxide  
Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8.  
In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
Dispose of contaminated extinction water according to official regulations.

## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.  
Ensure sufficient ventilation, remove sources of ignition.  
Avoid dust formation with solid or powder products.  
Leave the danger zone if possible, use existing emergency plans if necessary.  
Avoid contact with eyes or skin.  
If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
Prevent from entering drainage system.  
If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Avoid contact with eyes or skin.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.  
Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.  
Not to be stored in gangways or stair wells.  
Store product closed and only in original packing.  
Protect from direct sunlight and warming.  
Protect from frost.

### 7.3 Specific end use(s)

No information available at present.  
Observe the instructions for good working practice and the recommendations for risk assessment.  
Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

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## 8.1 Control parameters

Chemical Name	Glycerol		
WEL-TWA: 10 mg/m <sup>3</sup> (mist)	WEL-STEL: ---	---	
Monitoring procedures:	---		
BMGV: ---	Other information: ---		

4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,0118	mg/l	
	Environment - marine		PNEC	0,00118	mg/l	
	Environment - sediment, freshwater		PNEC	0,195	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	0,2	mg/l	
	Environment - soil		PNEC	0,0321	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,2	mg/l	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,67	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, local effects	DNEL	2,5	mg/cm <sup>2</sup>	

Octamethylcyclotetrasiloxane						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1,5	µg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	0,54	mg/kg	
	Environment - sediment, freshwater		PNEC	3	mg/kg	
	Environment - marine		PNEC	0,15	µg/l	
	Environment - sediment, marine		PNEC	0,3	mg/kg	
	Environment - oral (animal feed)		PNEC	41	mg/kg feed	
Consumer	Human - oral	Short term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	3,7	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	13	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Short term, local effects	DNEL	13	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	13	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Long term, local effects	DNEL	13	mg/kg	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	73	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	73	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	73	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	73	mg/m <sup>3</sup>	

2-methylisothiazol-3(2H)-one						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	3,39	µg/l	
	Environment - marine		PNEC	3,39	µg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,39	µg/l	
	Environment - sewage treatment plant		PNEC	0,23	mg/l	
	Environment - soil		PNEC	0,0471	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,027	mg/kg body weight/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,053	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,021	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,043	mg/m3	

Glycerol						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,885	mg/l	
	Environment - marine		PNEC	0,088	mg/l	
	Environment - sewage treatment plant		PNEC	1000	mg/l	
	Environment - sediment, freshwater		PNEC	3,3	mg/kg dw	
	Environment - sediment, marine		PNEC	0,33	mg/kg dw	
	Environment - soil		PNEC	0,141	mg/kg dw	
	Environment - water, sporadic (intermittent) release		PNEC	8,85	mg/l	
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	229	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	56	mg/m3	

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). |  
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

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(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). |

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
Applies only if maximum permissible exposure values are listed here.  
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
These are specified by e.g. EN 14042.  
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:  
Chemical resistant protective gloves (EN ISO 374).  
If applicable  
Rubber gloves (EN ISO 374).  
Protective gloves in butyl rubber (EN ISO 374).  
Protective Neoprene® / polychloroprene gloves (EN ISO 374).  
Protective nitrile gloves (EN ISO 374).  
Protective PVC gloves (EN ISO 374).  
Minimum layer thickness in mm:  
0,5  
Permeation time (penetration time) in minutes:  
480  
Protective hand cream recommended.  
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:  
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
Normally not necessary.

Thermal hazards:  
Not applicable

Additional information on hand protection - No tests have been performed.  
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
Selection of materials derived from glove manufacturer's indications.  
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties



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**9.1 Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	White
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	6,5-7,5 (100 %, 20°C, DIN 19268)
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Mixable
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,01 g/cm3 (20°C, DIN 51757)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.

**9.2 Other information**

Explosives: Product is not explosive.  
 Oxidising liquids: No

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

The product has not been tested.

**10.2 Chemical stability**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4 Conditions to avoid**

See also section 7.

None known

**10.5 Incompatible materials**

None known

**10.6 Hazardous decomposition products**

See also section 5.2

No decomposition when used as directed.

**SECTION 11: Toxicological information**

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

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.

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Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Skin corrosion/irritation:				Human being	OECD 439 (In Vitro Skin Irritation - Reconstructed Human Epidermis Test Method)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	(Draize-Test)	No
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	No
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	120	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

Octamethylcyclotetrasiloxane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4800	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2375	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	36	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rat	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:	NOAEL	150	mg/kg	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	inhalation
Reproductive toxicity:	NOAEL			Rat	OECD 416 (Two-generation Reproduction Toxicity Study)	Repr. 2
Reproductive toxicity (Developmental toxicity):	NOAEL	300	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	960	mg/kg bw/d	Rabbit	OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)	(21 d)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	150	mg/kg	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	

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4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3250	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	11300	mg/kg	Rabbit		
Respiratory or skin sensitisation:				Human being		Yes (skin contact)

1,2-benzisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	450	mg/kg			
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by inhalation:	ATE	0,21	mg/l/4h		OECD 403 (Acute Inhalation Toxicity)	Mist
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Skin corrosion/irritation:						Irritant
Serious eye damage/irritation:						Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)

Pyridine-2-thiol 1-oxide, sodium salt						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	500	mg/kg			
Acute toxicity, by dermal route:	ATE	790	mg/kg			
Acute toxicity, by inhalation:	ATE	0,5	mg/l			Dusts or mist
Acute toxicity, by inhalation:	ATE	3	mg/l/4h			Vapours
Skin corrosion/irritation:				Rabbit		Skin Irrit. 2
Serious eye damage/irritation:				Rabbit		Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig		Skin Sens. 1
Germ cell mutagenicity:				Mouse		Negative
Carcinogenicity:				Mouse		Negative
Reproductive toxicity:				Rat		Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	0,5	mg/kg			
Symptoms:						cornea opacity, cramps, fatigue, mucous membrane irritation, trembling

2-Octyl-2H-isothiazol-3-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	125	mg/kg			
Acute toxicity, by dermal route:	ATE	311	mg/kg			
Acute toxicity, by inhalation:	ATE	0,27	mg/l/4h			Dusts or mist
Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Serious eye damage/irritation:						Eye Dam. 1
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Symptoms:						ataxia, diarrhoea

2-methylisothiazol-3(2H)-one						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	120	mg/kg	Rat	U.S. EPA Guideline OPPTS 870.1100	Female
Acute toxicity, by oral route:	LD50	183	mg/kg	Rat		
Acute toxicity, by oral route:	ATE	120	mg/kg			
Acute toxicity, by dermal route:	ATE	242	mg/kg			
Acute toxicity, by dermal route:	LD50	242	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	0,11	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol

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Acute toxicity, by inhalation:	ATE	0,5	mg/l/4h			Vapours
Acute toxicity, by inhalation:	ATE	0,11	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Corrosive
Serious eye damage/irritation:				Rabbit		Risk of serious damage to eyes.
Serious eye damage/irritation:						Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity:	NOAEL	200	ppm	Rat	OECD 416 (Two-generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	60	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Symptoms:						mucous membrane irritation, watering eyes

Glycerol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>10000	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit	IUCLID Chem. Data Sheet (ESIS)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity:	NOAEL	2000	mg/kg/d			Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	3,91	mg/l	Rat		(14d)
Aspiration hazard:						Negative
Symptoms:						abdominal pain, drowsiness, diarrhoea, vomiting, headaches, mucous membrane irritation, nausea

## 11.2. Information on other hazards

Leather Care						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.

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Other information:						No other relevant information available on adverse effects on health.
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### SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Leather Care							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							The surfactant(s) contained in this mixture 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:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.
Other information:							DOC-elimination degree(complexing organic substance)>= 80%/28d: n.a.
Other information:	AOX		0	%			According to the recipe, contains no AOX.

1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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12.1. Toxicity to fish:	LC50	48h	1,3	mg/l	Lepomis macrochirus	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	30d	0,16	mg/l	Brachydanio rerio	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,028	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	96h	1,38	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	>2,6	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	2,6	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradability - Modified MITI Test (II))	Not to be expected
12.3. Bioaccumulative potential:	BCF	21d	600		Lepomis macrochirus	OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.3. Bioaccumulative potential:	Log Pow		5,65			OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							Negative

**Octamethylcyclotetrasiloxane**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 22	µg/l	Oncorhynchus mykiss		EPA OTS 797.1400
12.1. Toxicity to fish:	NOEC/NOEL	>60d	>=0,004 4	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	> 15	µg/l	Daphnia magna		EPA OTS 797.1300
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>0,015	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErC10	96h	0,022	mg/l			
12.1. Toxicity to algae:	EC50	96h	>2000	mg/l			
12.2. Persistence and degradability:		28d	3,7	%	activated sludge	OECD 310 (Ready Biodegradability - CO <sub>2</sub> in sealed vessels (Headspace Test))	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF	28d	12400		Pimephales promelas		EPA OTS 797.1520
12.3. Bioaccumulative potential:	Log Pow		6,98				21,7 °C
12.5. Results of PBT and vPvB assessment							PBT-substance, vPvB-substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	ISO 8192	

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**4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		28d	63	%	activated sludge	OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		2,08				Low

**1,2-benzisothiazol-3(2H)-one**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	2,2	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	28d	0,21	mg/l	Oncorhynchus mykiss	OECD 215 (Fish, Juvenile Growth Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	1,2	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	3,27	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	24h	0,1087	mg/l	Pseudokirchneriella subcapitata		
12.1. Toxicity to algae:	ErC10	24h	0,0268	mg/l	Pseudokirchneriella subcapitata		
12.2. Persistence and degradability:							Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		6,95			OECD 305 (Bioconcentration - Flow-Through Fish Test)	
12.3. Bioaccumulative potential:	Log Kow		0,7			OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method)	
Toxicity to bacteria:	EC50	3h	13	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC20	3h	3,3	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

**Pyridine-2-thiol 1-oxide, sodium salt**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,00767	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Aquatic Acute 1

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12.1. Toxicity to daphnia:	LC50	48h	0,150	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	LC50	72h	0,22	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,08	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	Aquatic Chronic 1
12.2. Persistence and degradability:		28d	79	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Kow		-1--2,64				
Toxicity to bacteria:	EC20	3h	0,48	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC50	3h	1,81	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

#### 2-Octyl-2H-isothiazol-3-one

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,047	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	NOEC/NOEL	35d	0,0085	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,003	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,32	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	0,00129	mg/l	Navicula pelliculosa	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	ErC10	48h	0,000224	mg/l	Navicula pelliculosa	OECD 201 (Alga, Growth Inhibition Test)	
12.3. Bioaccumulative potential:	Log Pow		2,45				

#### 2-methylisothiazol-3(2H)-one

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,38	mg/l	Pimephales promelas	OECD 210 (Fish, Early-Life Stage Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	4,77	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	



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12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,55	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,359	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	0,445	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,03	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	120h	0,05	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		48h	97	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	Readily biodegradable
12.2. Persistence and degradability:			< 0,08	d		OECD 307 (Aerobic and Anaerobic Transformation in Soil)	
12.2. Persistence and degradability:			1,28-2,1	d		OECD 308 (Aerobic and Anaerobic Transformation in Aquatic Sediment Systems)	
12.2. Persistence and degradability:			4,1	d		OECD 309 (Aerobic Mineralisation in Surface Water - Simulation Biodegradation Test)	
12.2. Persistence and degradability:		28d	0,32	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,32			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Slight
12.3. Bioaccumulative potential:	BCF		3,16				calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	34,6	mg/l	activated sludge		DIN 38412-3 (TTC-Test)
Toxicity to bacteria:	EC20	3h	2,8	mg/l	activated sludge		DIN 38412-3 (TTC-Test)

**Glycerol**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	> 5000	mg/l	Carassius auratus		

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12.1. Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna	
12.1. Toxicity to daphnia:	EC5	72h	3200	mg/l		Entosiphon sulcatum
12.1. Toxicity to algae:	EC50		2900	mg/l	Chlorella vulgaris	
12.2. Persistence and degradability:		14d	63	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))
12.2. Persistence and degradability:	BOD/COD		>60	%		
12.2. Persistence and degradability:	BOD5/COD		> 50	%		
12.2. Persistence and degradability:	DOC		>70	%		Readily biodegradable
12.2. Persistence and degradability:	BOD5		0,87	g/g		
12.2. Persistence and degradability:	COD		1,16	g/g		
12.3. Bioaccumulative potential:	Log Pow		-1,75			OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)
12.5. Results of PBT and vPvB assessment						No PBT substance, No vPvB substance
Toxicity to bacteria:	EC5	16h	> 10000	mg/l	Pseudomonas putida	

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 06 99 wastes not otherwise specified

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Untampered packaging can be recycled.

Recommended cleaner:

Water

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es): Not applicable

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14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	Not applicable
Classification code:	Not applicable
LQ:	Not applicable
Transport category:	Not applicable

#### Transport by sea (IMDG-code)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable

#### Transport by air (IATA)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

### SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Octamethylcyclotetrasiloxane

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

~ 0,8 %

#### REGULATION (EC) No 648/2004

less than 5 %

non-ionic surfactants

perfumes

HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE

COUMARIN

LINALOOL

ALPHA-ISOMETHYL IONONE

SODIUM PYRITHIONE

2-BROMO-2-NITROPROPANE-1,3-DIOL

BENZISOTHIAZOLINONE

METHYLISOTHIAZOLINONE

OCTYLISOTHIAZOLINONE

LAURYLAMINE DIPROPYLENEDIAMINE

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

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A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 2, 3, 11, 12  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H330 Fatal if inhaled.  
 H361f Suspected of damaging fertility.  
 H226 Flammable liquid and vapour.  
 H317 May cause an allergic skin reaction.  
 H314 Causes severe skin burns and eye damage.  
 H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 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.  
 EUH070 Toxic by eye contact.  
 EUH071 Corrosive to the respiratory tract.

Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Skin Irrit. — Skin irritation  
 Skin Sens. — Skin sensitization  
 Flam. Liq. — Flammable liquid  
 Repr. — Reproductive toxicity  
 Acute Tox. — Acute toxicity - inhalation  
 Acute Tox. — Acute toxicity - oral  
 Eye Dam. — Serious eye damage  
 Aquatic Acute — Hazardous to the aquatic environment - acute  
 Acute Tox. — Acute toxicity - dermal  
 Eye Irrit. — Eye irritation  
 STOT RE — Specific target organ toxicity - repeated exposure  
 Skin Corr. — Skin corrosion

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
 Guidelines for the preparation of safety data sheets as amended (ECHA).  
 Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).  
 Safety data sheets for the constituent substances.  
 ECHA Homepage - Information about chemicals.  
 GESTIS Substance Database (Germany).  
 German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
 EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
 National Lists of Occupational Exposure Limits for each country as amended.  
 Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### Any abbreviations and acronyms used in this document:

acc., acc. to	according, according to
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX	Adsorbable organic halogen compounds
approx.	approximately
Art., Art. no.	Article number
ASTM	ASTM International (American Society for Testing and Materials)
ATE	Acute Toxicity Estimate
BAM	Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
BAuA	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF	Bioconcentration factor
BSEF	The International Bromine Council
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR	carcinogenic, mutagenic, reproductive toxic
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
DOC	Dissolved organic carbon
e.g.	for example (abbreviation of Latin 'exempli gratia'), for instance
EbCx, EyCx, EbLx (x = 10, 50)	Effect Concentration/Level of x % on reduction of the biomass (algae, plants)
EC	European Community
ECHA	European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)	Effect Concentration/Level for x % effect
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EN	European Norms
EPA	United States Environmental Protection Agency (United States of America)
ErCx, E $\mu$ Cx, ErLx (x = 10, 50)	Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
etc.	et cetera
EU	European Union
EVAL	Ethylene-vinyl alcohol copolymer
Fax.	Fax number
gen.	general
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GWP	Global warming potential
Koc	Adsorption coefficient of organic carbon in the soil
Kow	octanol-water partition coefficient
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC (Code)	International Bulk Chemical (Code)
IMDG-code	International Maritime Code for Dangerous Goods
incl.	including, inclusive
IUCLID	International Uniform Chemical Information Database
IUPAC	International Union for Pure Applied Chemistry
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc	Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow	Logarithm of octanol-water partition coefficient
LQ	Limited Quantities
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
mg/kg bw	mg/kg body weight
mg/kg bw/d, mg/kg bw/day	mg/kg body weight/day
mg/kg dw	mg/kg dry weight
mg/kg wwt	mg/kg wet weight
n.a.	not applicable
n.av.	not available
n.c.	not checked
n.d.a.	no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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