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# 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**

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# Motorbike Leder-Kombi-Pflege

**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

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:

### 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 mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAquatic Chronic3H412-Harmful to act

H412-Harmful to aquatic life with long lasting effects.

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

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

# 2.3 Other hazards



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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

3.2 Mixtures	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	
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	
Classification according to Regulation (EC) 12/2/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Chronic 1, H410 (M=1)
O - tame the develoption and the second	DDT substance
Octamethylcyclotetrasiloxane	PBT-substance
	vPvB-substance
	SVHC-substance
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-<0,25
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Repr. 2, H361f
	Aquatic Chronic 1, H410 (M=10)
4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde	
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
	Skin Sens. 1A, H317
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. TA, HST7
Duriding 2 shield evide andium celé	
Pyridine-2-thiol 1-oxide, sodium salt	
Registration number (REACH)	
Index	613-344-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	223-296-5
CAS	3811-73-2
content %	0,0025-<0,025
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	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
Specific Concentration Limits and ATE	ATE (oral): 500 mg/kg
	ATE (dran): 300 mg/kg
	ATE (definal). 790 mg/kg ATE (as inhalation, Dusts or mist): 0,5 mg/l
	ATE (as inhalation, Dusts of mist): 0,5 mg/l ATE (as inhalation, Vapours): 3 mg/l/4h
	ATE (as innalation, vapours): 3 mg/l/4n
2-Octyl-2H-isothiazol-3-one	



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Registration number (REACH)	
Index	613-112-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	247-761-7
CAS	26530-20-1
content %	0,00025-<0,0015
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	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)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=0,0015 %
	ATE (oral): 125 mg/kg
	ATE (dermal): 311 mg/kg
	ATE (as inhalation, Mist): 0,27 mg/l/4h
	ATE (as inhalation, Vapours): 0,5 mg/l/4h

2-methylisothiazol-3(2H)-one	
Registration number (REACH)	01-2120764690-50-XXXX
Index	613-326-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	220-239-6
CAS	2682-20-4
content %	0,00015-<0,0015
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	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)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: >=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.



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#### 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 Formaldehvde 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.



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# 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**

### 8.1 Control parameters

Chemical Name	Glycerol		
WEL-TWA: 10 mg/m3 (mist)	WEL-STEL:		
Monitoring procedures:			
BMGV:		Other information:	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	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/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	13	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	13	mg/kg	



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Workers / employees	Human - inhalation	Short term, local effects	DNEL	73	mg/m3
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	73	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	73	mg/m3
Workers / employees	Human - inhalation	Long term, systemic	DNEL	73	mg/m3
		effects			

4-(4-hydroxy-4-methylper	ntyl)cyclohex-3-enecarbaldehyde	•				
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,0118	mg/l	
	Environment - marine		PNEC	0,00118	mg/l	
	Environment - sediment,		PNEC	0,195	mg/kg dry	
	freshwater				weight	
	Environment - sewage		PNEC	0,2	mg/l	
	treatment plant					
	Environment - soil		PNEC	0,0321	mg/kg dry	
					weight	
	Environment - sediment,		PNEC	0,2	mg/l	
	marine					
Workers / employees	Human - inhalation	Long term, systemic	DNEL	3,67	mg/m3	
		effects				
Workers / employees	Human - dermal	Long term, local effects	DNEL	2,5	mg/cm2	

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	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	

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	



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	Environment - sediment,		PNEC	0,33	mg/kg dw	
	marine					
	Environment - soil		PNEC	0,141	mg/kg dw	
	Environment - water,		PNEC	8,85	mg/l	
	sporadic (intermittent)					
	release					
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Consumer	Human - oral	Long term, systemic	DNEL	229	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	56	mg/m3	

Inited 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:

(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



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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

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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**

#### 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.



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#### None known **10.5 Incompatible materials** None known

(GB)·

#### **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).

Motorbike Leder-Kombi-Pflege						
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						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

1-(1,2,3,4,5,6,7,8-octahydro-2,3,	8,8-tetrameth	yl-2-naphthyl)eth	an-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		

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	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Carcinogenicity:	NOAEL	150	mg/kg	Rat	OECD 453 (Combined	inhalation
					Chronic	
					Toxicity/Carcinogenicity	
					Studies)	
Reproductive toxicity:	NOAEL			Rat	OECD 416 (Two-	Repr. 2
					generation	
					Reproduction Toxicity	
					Study)	



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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)	
4-(4-hydroxy-4-methylpentyl)cy	clobex-3-ene	carbaldebyde	·			
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3250	mg/kg	Rat		
Acute toxicity, by dermal route: Respiratory or skin sensitisation:	LD50	11300	mg/kg	Rabbit Human being		Yes (skin contact)
Pyridine-2-thiol 1-oxide, sodiur	n salt					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	500	mg/kg	<u> </u>		
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: Skin corrosion/irritation:	ATE	3	mg/l/4h	Rabbit		Vapours Skin Irrit. 2
Serious eye damage/irritation:				Rabbit		Eve Irrit. 2
Respiratory or skin sensitisation:				Guinea pig		Skin Sens. 1
Germ cell mutagenicity:				Mouse		Negative
Carcinogenicity: Reproductive toxicity:				Mouse Rat		Negative Negative
Specific target organ toxicity -	NOAEL	0,5	mg/kg	Rai		Negalive
repeated exposure (STOT-RE):		0,0				
Symptoms: 2-Octyl-2H-isothiazol-3-one						cornea opacity, cramps, fatigue, mucous membrane irritation, trembling
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	125	mg/kg	<u> </u>		
Acute toxicity, by dermal route:	ATE	311	mg/kg			
Acute toxicity, by inhalation: Acute toxicity, by inhalation:	ATE ATE	0,27	mg/l/4h mg/l/4h			Dust, Mist Vapours
Serious eye damage/irritation:	AIE	0,5	mg/i/4n			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 Guidline OPPTS 870.1100	Female
Acute toxicity, by oral route:	LD50	183	mg/kg	Rat		
Acute toxicity, by oral route: Acute toxicity, by dermal route:	ATE ATE	120 242	mg/kg mg/kg			
Acute toxicity, by dermal route:	LD50	242	mg/kg	Rat	OECD 402 (Acute	
,, ay actinal router	00				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	0,11	mg/l/4h			Dusts or mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit		Risk of serious
						damage to eyes
Serious eye damage/irritation:						Risk of serious
						damage to eyes
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Reproductive toxicity:	NOAEL	200	ppm	Rat	OECD 416 (Two-	
					generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	NOAEL	60	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-RE):					Dose 90-Day Oral	
					Toxicity Study in	
					Rodents)	
Symptoms:						mucous
						membrane
						irritation,
						watering eyes

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

Endpoint	Value	Unit	Organism	Test method	Notes
					Does not apply
					to mixtures.
	Endpoint	Endpoint Value	Endpoint Value Unit	Endpoint Value Unit Organism	Endpoint         Value         Unit         Organism         Test method



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Other information:

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No other relevant information available on adverse effects on health.

# **SECTION 12: Ecological information**

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

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							The surfactant(s
degradability:							contained in this
acgradability.							mixture
							complies(compl
							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 mad
							available to
							them, at their
							direct request of
							at the request of
							a detergent
			_				manufacturer.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							DOC-elimination
							degree(complex
							ng organic
							substance)>=
			-				80%/28d: n.a.
Other information:	AOX		0	%			According to the
							recipe, contains
							no AOX.
Octamethylcyclotetrasilo	oxane						



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12.1. Toxicity to fish:	LC50	96h	> 22	µg/l	Oncorhynchus		EPA OTS
					mykiss		797.1400
12.1. Toxicity to fish:	NOEC/NOEL	>60d	>=0,004	mg/l	Oncorhynchus		
-			4	_	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		28d	3,7	%	activated sludge	OECD 310	Not readily
degradability:					_	(Ready	biodegradable
						Biodegradability -	-
						CO2 in sealed	
						vessels	
						(Headspace Test))	
12.3. Bioaccumulative	BCF	28d	12400		Pimephales		EPA OTS
potential:					promelas		797.1520
12.3. Bioaccumulative	Log Pow		6,98		· · ·		21,7 °C
potential:	-						
12.5. Results of PBT							PBT-substance,
and vPvB assessment							vPvB-substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	ISO 8192	

4-(4-hydroxy-4-methylpe	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

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
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		-12,64				
Toxicity to bacteria:	EC20	3h	0,48	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	



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Toxicity to bacteria:     EC50     3h     1,81     mg/l	activated sludge (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
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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	0,00022 4	mg/l	Navicula pelliculosa	OECD 201 (Alga, Growth Inhibition Test)	
12.3. Bioaccumulative potential:	Log Pow		2,45				

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	28d	2,38	mg/l	Pimephales	OECD 210 (Fish,	
					promelas	Early-Life Stage	
						Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	4,77	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
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	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,03	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	120h	0,05	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	
12.2. Persistence and		48h	97	%		OECD 302 B	Readily
degradability:						(Inherent	biodegradable
						Biodegradability -	
						Zahn-	
						Wellens/EMPA	
						Test)	



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12.2. Persistence and degradability:			< 0,08	d		OECD 307 (Aerobic and Anaerobic Transformation in	
12.2. Persistence and degradability:			1,28-2,1	d		Soil) OECD 308 (Aerobic and Anaerobic Transformation in Aquatic Sediment	
12.2. Persistence and degradability:			4,1	d		Systems) OECD 309 (Aerobic Mineralisation in Surface Water - Simulation Biodegradation	
12.2. Persistence and degradability:		28d	0,32	%		Test) 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		
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			



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12.3. Bioaccumulative potential:	Log Pow		-1,75			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Bioaccumulation is unlikely (LogPow < 1).
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.:

(GB)·

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.

Uncontaminated 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
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	
••	



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14.3. Transport hazard class(es):14.4. Packing group:14.5. Environmental hazards:

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#### 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**

Not applicable

Not applicable

Not applicable

#### 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): REGULATION (EC) No 648/2004 ~ 0,8 %

non-ionic surfactants perfumes HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE COUMARIN LINALOOL ALPHA-ISOMETHYL IONONE SODIUM PYRITHIONE 2-BROMO-2-NITROPROPANE-1,3-DIOL BENZISOTHIAZOLINONE METHYLISOTHIAZOLINONE

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

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

**Revised sections:** 

less than 5 %

2, 3, 4, 6, 7, 8, 9, 11, 12, 15, 16

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

<b>Classification and processes</b>	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.



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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 - dermal Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral Eye Irrit. — Eye irritation STOT RE — Specific target organ toxicity - repeated exposure Aquatic Acute — Hazardous to the aquatic environment - acute Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage

#### 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:

according, according to acc., acc. 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 Article number Art., Art. no. ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSFF The International Bromine Council CAS **Chemical Abstracts Service** 



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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

GB

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.

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