according to Regulation (EC) No. 1907/2006 (REACH)

### Roti®-Load 1, 4x conc., reducing

article number: K929 date of compilation: 2017-05-18 Version: **3.0 en** Revision: 2021-12-21

Replaces version of: 2020-12-09

Version: (2)

undertaking



#### **Product identifier** 1.1

Identification of the substance Roti®-Load 1, 4x conc., reducing

Article number K929

Registration number (REACH) not relevant (mixture)

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes

(household).

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

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

#### 1.4 **Emergency telephone number**

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	n Hazard class		Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.1D	Acute toxicity (dermal)	3	Acute Tox. 3	H311
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	3.2 Skin corrosion/irritation		Skin Irrit. 2	H315

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Section	Hazard class		Hazard class and category	Hazard statement
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.45	Skin sensitisation	1	Skin Sens. 1	H317
3.9	Specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

### The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

### **Pictograms**

GHS05, GHS06, GHS08, GHS09









### **Hazard statements**

H302+H332	Harmful if swallowed or if inhaled
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H373	May cause damage to organs (liver, heart) through prolonged or repeated ex-
	posure (if swallowed)
H411	Toxic to aquatic life with long lasting effects

### **Precautionary statements**

### **Precautionary statements - prevention**

P273 Avoid release to the environment P280 Wear protective gloves/eye protection

### **Precautionary statements - response**

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

**Hazardous ingredients for labelling:** 2-Mercaptoethanol, Sodium dodecyl sulphate

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

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#### Symbol(s)







H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

P280 Wear protective gloves/eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor. contains: 2-Mercaptoethanol, Sodium dodecyl sulphate

### 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

### **Description of the mixture**

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Glycerine	CAS No 56-81-5	25 - 50			IOELV
	EC No 200-289-5				
	REACH Reg. No 01-2119471987- 18-xxxx				
2-Mercaptoethanol	CAS No 60-24-2 EC No 200-464-6 REACH Reg. No 01-2119517582-	10 - < 20	Acute Tox. 3 / H301 Acute Tox. 2 / H310 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT RE 2 / H373 Aquatic Acute 1 / H400		
	41-xxxx		Aquatic Chronic 1 / H410		
Sodium dodecyl sulph- ate	CAS No 151-21-3	5 – < 10	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 4 / H332		
	EC No 205-788-1		Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335	<b>(!)</b>	
	REACH Reg. No 01-2119489461- 32-xxxx		Aquatic Chronic 3 / H412	<b>~</b>	

Notes

IOELV: Substance with a community indicative occupational exposure limit value

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Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
2-Mercaptoeth- anol	CAS No 60-24-2 EC No 200-464-6	-	-	244 <sup>mg</sup> / <sub>kg</sub> 112 <sup>mg</sup> / <sub>kg</sub> 2,03 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: va- pour
Sodium dodecyl sulphate	CAS No 151-21-3 EC No 205-788-1	-	-	1.200 <sup>mg</sup> / <sub>kg</sub> 3,9 <sup>mg</sup> / <sub>l</sub> /4h	oral inhalation: dust/ mist

For full text of abbreviations: see SECTION 16

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician. In case of skin irritation, consult a physician.

#### Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Call a doctor.

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

Irritation, Allergic reactions, Gastrointestinal complaints, Nausea, Vomiting, Risk of serious damage to eyes, Risk of blindness

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

none

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media



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### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings

water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

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

Combustible.

### **Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

### **SECTION 6: Accidental release measures**

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



### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

### Advice on how to contain a spill

Covering of drains.

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Handle and open container with care. Provide adequate ventilation as well as local exhaustion at critical locations. Clear contaminated areas thoroughly.

### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Thorough skin-cleansing after handling the product.

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

Keep container tightly closed.

### **Incompatible substances or mixtures**

Observe hints for combined storage.

### Consideration of other advice:

Store locked up.

### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1

### **National limit values**

### **Occupational exposure limit values (Workplace Exposure Limits)**

Cont		ame of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
G	В	glycerol	56-81-5	WEL		10					mist	EH40/ 2005

#### **Notation**

Ceiling value is a limit value above which exposure should not occur Ceiling-C

mist STEL

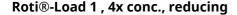
As mists Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified) TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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sulphate

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effects

#### Relevant DNELs of components of the mixture Name of sub-**CAS No** End-**Threshol Protection Used** in **Exposure time** goal, route of exposure d level stance point Glycerine 56-81-5 **DNEL** 56 mg/m<sup>3</sup> human, inhalatworker (industry) chronic - local effects ory 2-Mercaptoethanol 60-24-2 DNEL 0,17 mg/ human, inhalatworker (industry) chronic - systemic effects ory human, inhalat-60-24-2 DNEL 0,17 mg/ acute - systemic 2-Mercaptoethanol worker (industry) effects m<sup>3</sup> ory human, dermal 2-Mercaptoethanol 60-24-2 DNEL 0,05 mg/kg worker (industry) chronic - systemic effects bw/day 2-Mercaptoethanol 60-24-2 DNEL 0,05 mg/kg human, dermal worker (industry) acute - systemic bw/day effects Sodium dodecyl 151-21-3 DNEL human, inhalatchronic - systemic 285 mg/m<sup>3</sup> worker (industry) sulphate effects ory Sodium dodecyl 151-21-3 DNEL 4.060 mg/ human, dermal worker (industry) chronic - systemic

kg bw/day

### **Relevant PNECs of components of the mixture**

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Glycerine	56-81-5	PNEC	8,85 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	water	intermittent re- lease
Glycerine	56-81-5	PNEC	0,885 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
Glycerine	56-81-5	PNEC	0,088 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
Glycerine	56-81-5	PNEC	1.000 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Glycerine	56-81-5	PNEC	3,3 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Glycerine	56-81-5	PNEC	0,33 <sup>mg</sup> / <sub>kg</sub>	aquatic organ- isms	marine sediment	short-term (single instance)
Glycerine	56-81-5	PNEC	0,141 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	0,006 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	0,001 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	marine water	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	60 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	0,024 <sup>mg</sup> / kg	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	0,002 <sup>mg</sup> / kg	aquatic organ- isms	marine sediment	short-term (single instance)
2-Mercaptoethanol	60-24-2	PNEC	0,908 <sup>mg</sup> / kg	terrestrial organ- isms	soil	short-term (single instance)

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short-term (single

instance)

short-term (single

instance)

short-term (single

instance)

#### Relevant PNECs of components of the mixture Name of sub-**CAS No** End-**Threshol Organism Environmental Exposure time** stance point d level compartment 0,176 <sup>mg</sup>/<sub>l</sub> Sodium dodecyl 151-21-3 **PNEC** aquatic organfreshwater short-term (single sulphate isms instance) 0,018 <sup>mg</sup>/<sub>I</sub> 151-21-3 **PNEC** Sodium dodecyl aquatic organmarine water short-term (single sulphate isms instance) 1,35 <sup>mg</sup>/<sub>1</sub> Sodium dodecyl 151-21-3 **PNEC** sewage treatment short-term (single aquatic organsulphate plant (STP) instance) isms

aquatic organ-

isms

aquatic organ-

isms

terrestrial organ-

isms

freshwater sedi-

ment

marine sediment

soil

6,97 <sup>mg</sup>/<sub>kq</sub>

0.697 mg/

1,29 <sup>mg</sup>/<sub>kg</sub>

### 8.2 Exposure controls

Individual protection measures (personal protective equipment)

**PNEC** 

**PNEC** 

**PNEC** 

### Eye/face protection

Sodium dodecyl

sulphate

Sodium dodecyl

sulphate

Sodium dodecyl

sulphate





Use safety goggle with side protection.

151-21-3

151-21-3

151-21-3

#### Skin protection





### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

### type of material

Butyl caoutchouc (butyl rubber)

material thickness

0.7mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

• Splash protection - Protective gloves

• type of material: NBR (Nitrile rubber)

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material thickness: >0,3 mm

• breakthrough times of the glove material: >120 minutes (permeation: level 4)

### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### **Respiratory protection**





Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### **Environmental exposure controls**

Keep away from drains, surface and ground water.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state liquid

Colour clear - dark blue

Odour disagreeable - like rotten eggs

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling not determined

range

Flammability this material is combustible, but will not ignite

readily

Lower and upper explosion limit not determined Flash point not determined Auto-ignition temperature not determined Decomposition temperature not relevant pH (value)  $6-7 (20 \, ^{\circ}\text{C})$  Kinematic viscosity not determined

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

Vapour pressure not determined

Density and/or relative density

Density 1,1 – 1,2 <sup>g</sup>/<sub>cm³</sub> at 20 °C

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Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics:

Miscibility completely miscible with water

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Perchlorates, Strong acid

#### 10.4 Conditions to avoid

Keep away from heat.

### 10.5 Incompatible materials

different plastics

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

Test data are not available for the complete mixture.

### **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

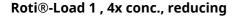
### Classification according to GHS (1272/2008/EC, CLP)

### **Acute toxicity**

Harmful if swallowed. Toxic in contact with skin. Harmful if inhaled.

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### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-Mercaptoethanol	60-24-2	oral	244 <sup>mg</sup> / <sub>kg</sub>
2-Mercaptoethanol	60-24-2	dermal	112 <sup>mg</sup> / <sub>kg</sub>
2-Mercaptoethanol	60-24-2	inhalation: vapour	2,03 <sup>mg</sup> / <sub>l</sub> /4h
Sodium dodecyl sulphate	151-21-3	oral	1.200 <sup>mg</sup> / <sub>kg</sub>
Sodium dodecyl sulphate	151-21-3	inhalation: dust/mist	3,9 <sup>mg</sup> / <sub>l</sub> /4h

### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Glycerine	56-81-5	dermal	LD50	>10.000 <sup>mg</sup> / <sub>kg</sub>	rabbit
Glycerine	56-81-5	oral	LD50	12.600 <sup>mg</sup> / <sub>kg</sub>	rat
2-Mercaptoethanol	60-24-2	inhalation: va- pour	LC50	2,03 <sup>mg</sup> / <sub>l</sub> /4h	rat
2-Mercaptoethanol	60-24-2	oral	LD50	244 <sup>mg</sup> / <sub>kg</sub>	rat
2-Mercaptoethanol	60-24-2	dermal	LD50	112 <sup>mg</sup> / <sub>kg</sub>	rabbit
Sodium dodecyl sulphate	151-21-3	oral	LD50	1.200 <sup>mg</sup> / <sub>kg</sub>	rat
Sodium dodecyl sulphate	151-21-3	dermal	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/eye irritation

Causes serious eye damage.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

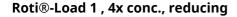
Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

May cause damage to organs (liver, heart) through prolonged or repeated exposure (if swallowed).

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Hazard category	Target organ	Exposure route
2	liver	if swallowed
2	heart	if swallowed

### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

vomiting, nausea, gastrointestinal complaints

### • If in eyes

Causes serious eye damage, risk of blindness

#### If inhaled

irritant effects, cough, Dyspnoea

#### • If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness, risk of absorption via the skin

#### Other information

none

### 11.2 Endocrine disrupting properties

None of the ingredients are listed.

### 11.3 Information on other hazards

There is no additional information.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

### Aquatic toxicity (acute) of components of the mixture

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Glycerine	56-81-5	LC50	54.000 <sup>mg</sup> / <sub>l</sub>	rainbow trout (Onco- rhynchus mykiss)	96 h
2-Mercaptoethanol	60-24-2	LC50	37 <sup>mg</sup> / <sub>l</sub>	fish	96 h
2-Mercaptoethanol	60-24-2	EC50	0,4 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h
2-Mercaptoethanol	60-24-2	ErC50	19 <sup>mg</sup> / <sub>l</sub>	algae	72 h
Sodium dodecyl sulph- ate	151-21-3	LC50	29 <sup>mg</sup> / <sub>l</sub>	fish	96 h
Sodium dodecyl sulph- ate	151-21-3	ErC50	>120 <sup>mg</sup> / <sub>l</sub>	algae	72 h

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#### Aquatic toxicity (chronic) of components of the mixture Exposure time Name of sub-**CAS No Endpoint Value Species** stance 125 <sup>mg</sup>/<sub>I</sub> 2-Mercaptoethanol 60-24-2 EC50 microorganisms 17 h Sodium dodecyl sulph-EC50 135 <sup>mg</sup>/<sub>l</sub> 3 h 151-21-3 microorganisms

### **Biodegradation**

Data are not available.

### 12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Glycerine	56-81-5	biotic/abiotic	63 %	14 d		
Sodium do- decyl sulphate	151-21-3	biotic/abiotic	90 %	28 d		
Sodium do- decyl sulphate	151-21-3	carbon dioxide generation	95 %	28 d		ECHA

### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potentia	l of componen	ts of the mix	ture		
Name of substance	CAS No	BCF	Log KOW BOD		
Glycerine	56-81-5		-1,75 (pH value: 7,4, 25 °C)		
2-Mercaptoethanol	60-24-2		-0,056 (pH value: 7, 25 °C)		
Sodium dodecyl sulphate   151-21-3   ≤-2,03 (20 °C)					

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

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## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

14.1 UN number or ID number
-----------------------------

ADR/RID/ADN	UN 2810
IMDG-Code	UN 2810
ICAO-TI	UN 2810

### 14.2 UN proper shipping name

ADR/RID/ADN	TOXIC LIQUID, ORGANIC, N.O.S.
IMDG-Code	TOXIC LIQUID, ORGANIC, N.O.S.
ICAO-TI	Toxic liquid, organic, n.o.s.

Technical name (hazardous ingredients)

Thioglycol, Sodium dodecyl sulphate

### 14.3 Transport hazard class(es)

ADR/RID/ADN	6.1
IMDG-Code	6.1
ICAO-TI	6.1

#### 14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

### **14.5 Environmental hazards** hazardous to the aquatic environment

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Environmentally hazardous substance (aquatic

environment):

Thioglycol

#### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Proper shipping name TOXIC LIQUID, ORGANIC, N.O.S.

Particulars in the transport document UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (con-

tains: Thioglycol, Sodium dodecyl sulphate), 6.1, III, (E), environmentally hazardous

Classification code T1

Danger label(s) 6.1, "Fish and tree"

**Environmental hazards YES** (hazardous to the aquatic environment)

Special provisions (SP) 274, 614, 802(ADN)

Excepted quantities (EQ) E1 Limited quantities (LQ) 5 L Transport category (TC) 2 Tunnel restriction code (TRC) Ε Hazard identification No 60 **Emergency Action Code** 2X

International Maritime Dangerous Goods Code (IMDG) - Additional information

TOXIC LIQUID, ORGANIC, N.O.S. Proper shipping name

UN2810, TOXIC LIQUID, ORGANIC, N.O.S., (con-Particulars in the shipper's declaration

tains: Thioglycol, Sodium dodecyl sulphate), 6.1,

III, MARINE POLLUTANT

Marine pollutant **Ves** (hazardous to the aquatic environment), (Thioglycol)

Danger label(s) 6.1, "Fish and tree"



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

**EmS** F-A, S-A

Stowage category Α

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### International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Toxic liquid, organic, n.o.s.

Particulars in the shipper's declaration UN2810, Toxic liquid, organic, n.o.s., (contains:

Thioglycol, Sodium dodecyl sulphate), 6.1, III

**Environmental hazards YES** (hazardous to the aquatic environment)

Danger label(s) 6.1

Special provisions (SP) A3, A4, A137

Excepted quantities (EQ) E1 Limited quantities (LQ) 2 L

### SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	Restriction	No
Roti®-Load 1	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3
Sodium dodecyl sulphate	flammable / pyrophoric		R40	40
Sodium dodecyl sulphate	substances in tattoo inks and perman- ent make-up		R75	75

#### Legend

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

tricks and jokes.

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume,

- can be used as fuel in decorative oil lamps for supply to the general public, and
   present an aspiration hazard and are labelled with H304.

  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation
- (CEN).

  5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
- ments are met:
  (a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil or even sucking the wick of lamps may lead to life-threatening lung damage";
  (b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
  (c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

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#### Legend

R40

- 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:

   metallic glitter intended mainly for decoration,
- artificial snow and frost,

- whoopee' cushions,
   silly string aerosols,
   imitation excrement,
   horns for parties,
   decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
- 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:

  "For professional users only."
- 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
- 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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#### Legend

**R75** 

1. Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:

(a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category

1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight:

(c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;

(d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:

(i) 0,1 % by weight, if the substance is used solely as a pH regulator

(ií) 0,01 % by weight, in all other cases;

(e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the

(f) in the case of a substance is the invalid in the legislation (EC) No 1223/2009 (17), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;

(f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:

(i) "Rinse-off products";
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";

(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column; (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concen-

(n) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.

3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.

as also falls within one of more of points (a) to (g) of paragraph 1, the concentration limit faid down in point (ii) of paragraph 1 shall apply to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that now or revised classification in fifty the date referred to in paragraph 1 or as the case may be paragraph. plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the

amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.

7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:

(a) the statement "Mixture for use in tattoos or permanent make-up";

(a) the statement "Mixture for use in tattoos or permanent make-up";
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

tion limit specified in Appendix 13

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below

the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.

The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for

tattooing purposes.



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#### Legend

9. This entry does not apply to substances that are gases at temperature of 20  $^{\circ}$ C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50  $^{\circ}$ C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed.

#### **Seveso Directive**

2012/18/EU (Seveso III)					
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes		
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200 500	57)		

#### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

#### **Deco-Paint Directive**

VOC content	25,92 % , 465,2 <sup>g</sup> / <sub>l</sub>

#### **Industrial Emissions Directive (IED)**

VOC content	19,1 %
VOC content	559,8 <sup>g</sup> / <sub>l</sub>
VOC content Water content was discounted	342,8 <sup>9</sup> / <sub>I</sub>

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### **Water Framework Directive (WFD)**

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Sodium dodecyl sulphate	Metals and their compounds		A)	

#### Legend

A) Indicative list of the main pollutants

### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

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### **Regulation on drug precursors**

none of the ingredients are listed

### Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

Country	Inventory	Status
AU	AICS	not all ingredients are listed
CA	DSL	not all ingredients are listed
CA	NDSL	not all ingredients are listed
CN	IECSC	not all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	not all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	not all ingredients are listed

#### Legend

AICS CICR CSCL-ENCS

Australian Inventory of Chemical Substances Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS)

DSL ECSI Domestic Substances List (DSL)

EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
Non-domestic Substances List (NDSL) IECSC INSQ KECI NDSL NZIoC

New Zealand Inventory of Chemicals Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH Reg. REACH registered substances

Taiwan Chemical Substance Inventory Toxic Substance Control Act TCSI TSCA

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### **SECTION 16: Other information**

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1		The most important adverse physicochemical, human health and environmental effects: Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes
2.3		Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	yes

### **Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval

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EH40/2005 EH  EINECS  ELINCS  EmS  ErC50 = EG  Eye Dam.  Eye Irrit.	EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)  140/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)  European Inventory of Existing Commercial Chemical Substances  European List of Notified Chemical Substances  Emergency Schedule  CC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
EINECS  ELINCS  EmS  ErC50 = E  Eye Dam.  Eye Irrit.	cence/)  European Inventory of Existing Commercial Chemical Substances  European List of Notified Chemical Substances  Emergency Schedule  C50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
ELINCS  EmS  ErC50 = EG  Eye Dam.  Eye Irrit.	European List of Notified Chemical Substances  Emergency Schedule  C50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
EmS  ErC50 = E  Eye Dam.  Eye Irrit.	Emergency Schedule C50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
ErC50 = E	C50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
Eye Dam. Eye Irrit.	growth (EbC50) or growth rate (ErC50) relative to the control  Seriously damaging to the eye
Eye Irrit.	, , , ,
	Total Control of the
	Irritant to the eye
Flam. Sol.	Flammable solid
GHS "Glo	obally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No The	e Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50 Letha	al Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50 Letha	al Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Rè	glement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure

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Abbr.	Descriptions of used abbreviations
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### **Classification procedure**

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H228	Flammable solid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs (liver, heart) through prolonged or repeated exposure (if swallowed).
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.
H412	Harmful to aquatic life with long lasting effects.

### **Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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