acc. to Safe Work Australia - Code of Practice

#### Roti®-Load 1, 4x conc., reducing

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Replaces version of: 2020-12-09

Version: (GHS 2)

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

#### **Product identifier** 1.1

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

Article number K929

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

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).

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

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:

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

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

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 West- mead, NSW	131126	

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

#### Classification of the substance or mixture 2.1

#### Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.6	Flammable liquid	4	Flam. Liq. 4	H227
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	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318

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Section	Section Hazard class		Hazard class and category	Hazard statement
3.45	Skin sensitisation		Skin Sens. 1	H317
3.9 Specific target organ toxicity - repeated exposure		2	STOT RE 2	H373

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. The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS05, GHS06, GHS08







#### **Hazard statements**

H227 Combustible liquid

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)

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing

#### **Precautionary statements - response**

P302+P352 IF ON SKIN: Wash with plenty of soap and 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

P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher for extinction

#### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant

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

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#### 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
2-Mercaptoethanol	CAS No 60-24-2	10 - < 20	Flam. Liq. 4 / H227 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		
Sodium dodecyl sulph- ate	CAS No 151-21-3	5-<10	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335	(!)	

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.

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#### 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



### 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. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

#### **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. 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. Avoidance of ignition sources.

### **6.2** Environmental precautions

Keep away from drains, surface and ground water. Danger of explosion.

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

#### Advice on how to contain a spill

Covering of drains.

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#### 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.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

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

### Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

#### 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. Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

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

#### **Control parameters**

#### **National limit values**

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

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE [PP]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source	
AU	glycerine	56-81-5	WES		10					mist	WES	

Notation

Ceiling-C mist STEL

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

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)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 TWA

hours time-weighted average (unless otherwise specified)

### Relevant DNELs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time	
2-Mercaptoethanol	60-24-2	DNEL	0.17 mg/ m³	human, inhalat- ory	worker (industry)	chronic - systemic effects	
2-Mercaptoethanol	60-24-2	DNEL	0.17 mg/ m³	human, inhalat- ory			
2-Mercaptoethanol	60-24-2	DNEL	0.05 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	
2-Mercaptoethanol	60-24-2	DNEL	0.05 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects	
Sodium dodecyl sulphate	151-21-3	DNEL	285 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	chronic - systemic effects	
Sodium dodecyl sulphate	151-21-3	DNEL	4,060 mg/ kg bw/day	human, dermal	worker (industry)	chronic - systemic effects	

#### Relevant PNECs of components of the mixture

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
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)

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short-term (single

instance)

short-term (single

instance)

marine sediment

soil

#### Relevant PNECs of components of the mixture Name of sub-**CAS No** End-**Threshol Organism Environmental Exposure time** stance d level point compartment 0.908 <sup>mg</sup>/ 2-Mercaptoethanol 60-24-2 **PNEC** terrestrial organsoil short-term (single instance) isms kg 0.176 mg/ı Sodium dodecyl 151-21-3 **PNEC** aquatic organfreshwater short-term (single sulphate instance) isms 0.018 <sup>mg</sup>/<sub>I</sub> Sodium dodecyl 151-21-3 PNFC aquatic organmarine water short-term (single sulphate isms instance) Sodium dodecyl 151-21-3 **PNEC** 1.35 <sup>mg</sup>/<sub>l</sub> sewage treatment short-term (single aquatic organsulphate plant (STP) instance) isms aquatic organ-Sodium dodecyl 151-21-3 **PNEC** 6.97 <sup>mg</sup>/<sub>ka</sub> freshwater sedishort-term (single sulphate isms ment instance)

aquatic organ-

isms

terrestrial organ-

isms

0.697 mg/

1.29 <sup>mg</sup>/<sub>kg</sub>

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

**PNEC** 

**PNEC** 

#### **Eye/face protection**

Sodium dodecyl

sulphate

Sodium dodecyl

sulphate





Use safety goggle with side protection.

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

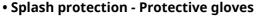
>480 minutes (permeation: level 6)

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• type of material: NBR (Nitrile rubber)

• 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 flammable liquid in accordance with GHS criteria

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

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ROTH

Density and/or relative density

Density  $1.1 - 1.2 \, {}^{9}/_{cm^{3}}$  at 20 °C

Relative vapour density information on this property is not available

There is no additional information.

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Other safety characteristics:

Miscibility completely miscible with water

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

#### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

#### If heated

Risk of ignition.

#### 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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 toxicological effects

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).

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#### Classification acc. to GHS

#### **Acute toxicity**

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

#### 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
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.

# **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					
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									
Name of substance CAS No Endpoint Value Species Exposur time									
2-Mercaptoethanol	60-24-2	EC50	125 <sup>mg</sup> / <sub>l</sub>	microorganisms	17 h				
Sodium dodecyl sulph-	151-21-3	EC50	135 <sup>mg</sup> / <sub>l</sub>	microorganisms	3 h				

#### **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
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.

bloaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
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.

### **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.

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#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

**H6.1** Poisonous (Acute)

**H11** Toxic (Delayed or chronic)

#### 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

UN RTDG UN 2810

2010

IMDG-Code UN 2810

ICAO-TI UN 2810

14.2 UN proper shipping name

UN RTDGTOXIC LIQUID, ORGANIC, N.O.S.IMDG-CodeTOXIC 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)

UN RTDG 6.1 IMDG-Code 6.1

ICAO-TI 6.1

14.4 Packing group

UN RTDG III
IMDG-Code III
ICAO-TI III

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

Environmentally hazardous substance (aguatic Thioglycol

environment):

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

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

Transport informationNational regulationsAdditional information(UN RTDG)

**UN number** 2810 Class 6.1

**Environmental hazards** Yes

Hazardous to the aquatic environment

**Packing group** III Danger label(s) 6.1

Fish and tree

Special provisions (SP) 223, 274 UN RTDG

**Excepted quantities (EQ)** 

**UN RTDG** 

Limited quantities (LQ)

UN RTDG 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 **YES** (hazardous to the aquatic environment), (Thioglycol)

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





Special provisions (SP) 223, 274

Excepted quantities (EQ) **F1** Limited quantities (LQ) 5 L

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

Stowage category

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

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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 There is no additional information.

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

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)
New Zoaland Inventory of Chemicals **INSQ NDSL** 

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.
REACH registered substances
TCSI Taiwan Chemical Substance Inventory

Toxic Substance Control Act

#### 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: Globally Harmonized System of Classification and Labelling of Chemicals

("Purple book").

Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: 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. The product is combustible and can be ignited by potential ignition sources.	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: 2-Mercaptoethanol, Sodium dodecyl sulphate		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
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
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)

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# **Safety data sheet Safety data sheet** acc. to Safe Work Australia - Code of Practice

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Abbr.	Descriptions of used abbreviations
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
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: 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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
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
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal 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
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
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
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good

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Abbr.	Descriptions of used abbreviations
vPvB	Very Persistent and very Bioaccumulative
WES	Safe Work Australia: Workplace exposure standards for airborne contaminants

#### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. 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
H227	Combustible liquid.
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).

#### **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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