

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

PERAMIT LPW

DRP0145DE

Version
5.1

Revision Date:
20.12.2022

Date of last issue: 08.08.2022
Date of first issue: 08.02.2012

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

1.1 Product identifier

Trade name : PERAMIT LPW DRP0145DE

Product code : 000000000010030166

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

Use of the Sub- : Leather Auxiliary, Raw material for industry
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Pulcra Chemicals GmbH
Isardamm 79 - 83
82538 Geretsried
Germany

Telephone : +49 8171 628-200
Responsible/issuing person : MSDS-DE@pulcrachem.com

Bauer Handels GmbH



Vertrieb Schweiz:	Vertrieb Deutschland & EU:
Bauer Handels GmbH	Bauer Handels GmbH
Allmendstrasse 17	Freibühlstrasse 6
CH-8320 Fehraltorf	DE-78224 Singen
Tel. +41 (0) 44 939 18 68	Tel.+49 (0) 7731 926 44 16

www.taxidermy.ch info@taxidermy.ch

1.4 Emergency telephone number

Telephone : GBK GmbH 24H Emergency Telephone Number
+49 6132 84463

: World directory of poison centres
<https://apps.who.int/poisoncentres/>

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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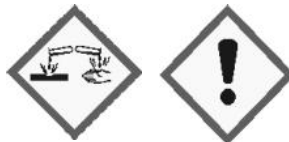
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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary statements :

Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

Sulfonic acids, C14-17-sec-alkane, sodium salts

Alcohols, C11-14-iso-, C13-rich, ethoxylated

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

2-Methyl-2H-isothiazol-3-one

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous mixture of: Alkyl sulfonate, sodium salt additives

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1 307-055-2 01-2119489924-20	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 10 - < 20
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9 Polymer	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
2-Methyl-2H-isothiazol-3-one	2682-20-4 220-239-6	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1A; H317 Acute Tox. 3; H311 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 specific concentration limit Skin Sens. 1A; H317 >= 0,0015 %	>= 0,025 - < 0,1
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox. 4; H302 Acute Tox. 2; H330 Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Acute 1; H400	>= 0,025 - < 0,05

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		<p>Aquatic Chronic 1; H410</p> <hr/> <p>M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1</p> <hr/> <p>specific concentration limit Skin Sens. 1; H317 ≥ 0,05 %</p> <hr/> <p>Acute toxicity estimate</p> <hr/> <p>Acute inhalation toxicity (dust/mist): 0,05 mg/l</p>	
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : First aider needs to protect himself.
Move out of dangerous area.
Do not leave the victim unattended.
Symptoms may be delayed.
Get medical attention immediately.
Show this safety data sheet to the doctor in attendance.
Take off contaminated clothing and shoes immediately.
- If inhaled : Move to fresh air.
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a physician immediately.
Contact a poison control center.
- In case of skin contact : Wash with plenty of soap and water.
Cover wound with sterile dressing.
Take off contaminated clothing and shoes immediately.
Call a physician immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Keep eye wide open while rinsing.
If easy to do, remove contact lens, if worn.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
Get medical attention immediately.

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If swallowed : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
If a person vomits when lying on his back, place him in the recovery position.
Get medical attention immediately.
Contact a poison control center.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
Basic medical care.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Product is compatible with standard fire-fighting agents.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Hazardous decomposition products formed under fire conditions.
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment as required.

Further information : Standard procedure for chemical fires.
Evacuate area.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Pay attention to flashback.
In the event of fire and/or explosion do not breathe fumes.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate area.
Immediately evacuate personnel to safe areas.
First aider needs to protect himself.
Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Remove all sources of ignition.
In the case of vapour formation use a respirator with an approved filter.
In the case of dust or aerosol formation use respirator with an approved filter.
Material can create slippery conditions.
Forms slippery/greasy layers with water.
Take precautionary measures against static discharge.
Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Do not flush into surface water or sanitary sewer system.
Do not allow contact with soil, surface or ground water.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Retain and dispose of contaminated wash water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate the area.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
Clean contaminated surface thoroughly.
Large spills should be collected mechanically (remove by pumping) for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Ground and bond container and receiving equipment.
Technical measures and the application of appropriate working methods take precedence over the use of personal protective equipment.

Local/Total ventilation : Use only with adequate ventilation.

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Advice on safe handling : For personal protection see section 8.
Avoid inhalation, ingestion and contact with skin and eyes.
Do not breathe vapours or spray mist.
Avoid release to the environment.
Keep container tightly closed.
Wash face, hands and any exposed skin thoroughly after handling.
Ensure that eye flushing systems and safety showers are located close to the working place.
Floors, walls and other surfaces must be regularly cleaned.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Avoid formation of aerosol. Keep away from heat and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace. Store personal protection equipment in a clean location away from the work area.

Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Stir before use.

Further information on storage conditions : Do not store in or use containers except the original product package.

Advice on common storage : Keep away from food and drink.
Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Storage class (TRGS 510) : 10

Recommended storage temperature : 5 - 35 °C

Further information on storage stability : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Sulfonic acids, C14-17-sec-alkane, sodium salts	Workers	Inhalation	Long-term systemic effects	35 mg/m ³
	Workers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Workers	Skin contact	Acute local effects	2,8 mg/cm ²
	Workers	Skin contact	Long-term local effects	2,8 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	12,4 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	3,57 mg/kg bw/day
	Consumers	Skin contact	Acute local effects	2,8 mg/cm ²
	Consumers	Oral	Long-term systemic effects	7,1 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	2,8 mg/cm ²

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Sulfonic acids, C14-17-sec-alkane, sodium salts	Fresh water	0,06 mg/l
	Marine water	0,006 mg/l
	Fresh water sediment	9,4 mg/kg dry weight (d.w.)
	Marine sediment	0,94 mg/kg dry weight (d.w.)
	Sewage treatment plant	600 mg/l
	Soil	9,4 mg/kg dry weight (d.w.)
	Oral	53,3 mg/kg food
	Air	
Remarks: No hazard identified		

Lead components LCID method

Component Type	Value type	Component	Remarks
Lead substance(s)	aquatic environment	Sulfonic acids, C14-17-sec-alkane, sodium salts	
Lead substance(s)	ozone layer		Not relevant
Lead substance(s)	Inhalation	Sulfonic ac-	

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		ids, C14-17-sec-alkane, sodium salts	
Lead substance(s)	Dermal	Sulfonic acids, C14-17-sec-alkane, sodium salts	
Lead substance(s)	Oral	Sulfonic acids, C14-17-sec-alkane, sodium salts	
Local effects	Skin	Sulfonic acids, C14-17-sec-alkane, sodium salts, 2-Methyl-2H-isothiazol-3-one	applicable
Local effects	Inhalation		Not relevant
Local effects	Eyes	Sulfonic acids, C14-17-sec-alkane, sodium salts, Alcohols, C11-14-iso-, C13-rich, ethoxylated	applicable

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye protection : Tightly fitting safety goggles
Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Equipment should conform to EN 166

Hand protection

Material : Nitrile rubber
Break through time : > 480 min
Glove thickness : > 0,7 mm
Directive : Equipment should conform to EN 374

Remarks : Gloves must be inspected prior to use. Wash hands before breaks and at the end of workday. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the

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- supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. When handling hot material, use heat resistant gloves.
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Suitable respiratory equipment:
Respirator with combination filter for vapour/particulate (EN 141)
See information supplied by the manufacturer.
- Filter type : Combined particulates, inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK-P)
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Follow the skin protection plan.
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : light yellow
- Odour : mild
- Odour Threshold : No data available
- Melting point/freezing point : ca. 0 °C
- Initial boiling point and boiling range : ca. 100 °C
- Upper explosion limit / Upper flammability limit : not determined
- Lower explosion limit / Lower flammability limit : not determined
- Flash point : 151 °C
Expert judgement
- Ignition temperature : No data available

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Decomposition temperature	:	No data available
pH	:	ca. 7,5 (20 °C) Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	ca. 50 mPa.s (20 °C) Method: DIN 53015
Viscosity, kinematic	:	ca. 49 mm ² /s (20 °C) Method: Calculation method
Solubility(ies)		
Water solubility	:	(20 °C) completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	study technically not feasible See ingredient/ingredients
Self-ignition	:	Not applicable
Vapour pressure	:	ca. 23 hPa (20 °C) aqueous phase
Relative density	:	ca. 1,03 (20 °C) Method: Calculation method
Density	:	ca. 1,03 g/cm ³ (20 °C)
Relative vapour density	:	Vapours are heavier than air and may spread along floors. Active ingredient Expert judgement

9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	No data available
Flammability (liquids)	:	Ignitable (see flash point)
Dust explosion class	:	Not applicable
Evaporation rate	:	No data available
Surface tension	:	No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Avoid radical-forming starting agents, peroxides and reactive metals.
Hazardous polymerisation does not occur.No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.
Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents
Strong reducing agents

10.6 Hazardous decomposition products

Thermal decomposition : No decomposition if stored and applied as directed.
Thermal decomposition can lead to release of irritating gases and vapours.
In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
Other hazardous decomposition products may be formed.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Acute oral toxicity : LD50 (Rat, male and female): 500 mg/kg

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Method: OECD Test Guideline 401
GLP: yes
Information taken from reference works and the literature.

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Mouse, female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Acute oral toxicity : LD50: 500 mg/kg
Method: Acute toxicity estimate
GLP: No information available.
CESIO recommendations for the harmonized classification and labelling of surfactants

Acute inhalation toxicity : No data available

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: No information available.
GLP: No information available.
CESIO recommendations for the harmonized classification and labelling of surfactants
Information given is based on data obtained from similar substances.

2-Methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat, male and female): >= 183 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Information taken from reference works and the literature.

LD50 (Mouse, male and female): 167 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Information taken from reference works and the literature.

Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rat, male): 242 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Information taken from reference works and the literature.

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

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- Acute oral toxicity : LD50 (Rat, male and female): \geq 490 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Information taken from reference works and the literature.
- Acute inhalation toxicity : Acute toxicity estimate (Rat): 0,05 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: No information available.
GLP: No information available.
Information taken from reference works and the literature.
- Acute dermal toxicity : LD50 (Rat, male and female): $>$ 5.000 mg/kg
Method: No information available.
GLP: yes
Information taken from reference works and the literature.

Skin corrosion/irritation

Product:

Remarks : Causes skin irritation.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Remarks : Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species : Rabbit
Exposure time : 4 h
Assessment : No skin irritation
Method : No information available.
Result : No skin irritation
Remarks : CESIO recommendations for the harmonized classification and labelling of surfactants
Information given is based on data obtained from similar substances.

2-Methyl-2H-isothiazol-3-one:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes severe skin burns and eye damage.
Method : OECD Test Guideline 404
Result : Corrosive
GLP : yes

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Remarks : Information taken from reference works and the literature.

Species : reconstructed human epidermis (RhE)
Assessment : Causes severe skin burns and eye damage.
Method : OECD Test Guideline 431
Result : Corrosive
GLP : yes
Remarks : Information taken from reference works and the literature.

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

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Remarks : Information taken from reference works and the literature.

Serious eye damage/eye irritation

Product:

Remarks : Causes serious eye damage.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rabbit
Assessment : Causes serious eye damage.
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye
GLP : yes
Remarks : Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species : Rabbit
Assessment : Causes serious eye damage.
Method : Draize Test
Result : Irreversible effects on the eye
GLP : No information available.
Remarks : CESIO recommendations for the harmonized classification and labelling of surfactants
Information given is based on data obtained from similar substances.

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

Species : Rabbit
Assessment : Causes serious eye damage.
Method : Draize Test
Result : Severe eye irritation
GLP : yes
Remarks : Information taken from reference works and the literature.

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Species : Bovine cornea
Method : OECD Test Guideline 437
Result : No eye irritation
GLP : yes
Remarks : Information taken from reference works and the literature.

Respiratory or skin sensitisation

Product:

Remarks : May cause an allergic skin reaction.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Test Type : Maximisation Test
Species : Guinea pig
Assessment : Not classified
Method : OECD Test Guideline 406
Result : negative
GLP : no

Remarks : Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Test Type : Maximisation Test
Species : Guinea pig
Assessment : Did not cause sensitisation on laboratory animals.
Method : OECD Test Guideline 406
Result : negative
GLP : No information available.

Remarks : Information given is based on data obtained from similar substances.
Information taken from reference works and the literature.

2-Methyl-2H-isothiazol-3-one:

Test Type : Buehler Test
Species : Guinea pig
Assessment : Causes sensitisation.
Method : OECD Test Guideline 406
Result : positive
GLP : yes

Remarks : Information taken from reference works and the literature.

Test Type : Maximisation Test
Species : Guinea pig
Assessment : Causes sensitisation.
Method : OECD Test Guideline 406
Result : positive

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GLP : yes

Remarks : Information taken from reference works and the literature.

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Assessment : Causes sensitisation.
Method : OECD Test Guideline 429
Result : positive
GLP : yes

Remarks : Information taken from reference works and the literature.

Test Type : Patch Test 24 Hrs.
Species : Humans
Method : No information available.
Result : positive
GLP : No information available.

Remarks : Information taken from reference works and the literature.

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

Test Type : Maximisation Test
Species : Guinea pig
Assessment : May cause an allergic skin reaction.
Method : OECD Test Guideline 406
Result : positive
GLP : No information available.

Remarks : Information taken from reference works and the literature.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no
Information taken from reference works and the literature.

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Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Information taken from reference works and the literature.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Exposure time: 24
Dose: 600 - 2400 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: no
Information taken from reference works and the literature.

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: No information available.
Information taken from reference works and the literature.
Information given is based on data obtained from similar substances.

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

2-Methyl-2H-isothiazol-3-one:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Information taken from reference works and the literature.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

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Information taken from reference works and the literature.

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Information taken from reference works and the literature.

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Information taken from reference works and the literature.

Genotoxicity in vivo

: Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Dose: 10, 50, 100 mg/kg bw
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Information taken from reference works and the literature.

Test Type: unscheduled DNA synthesis assay
Species: Rat (male and female)
Application Route: Oral
Dose: 103, 206, 308 mg a.i./kg bw
Method: OECD Test Guideline 486
Result: negative
GLP: No information available.
Information taken from reference works and the literature.

Germ cell mutagenicity- Assessment

: In vitro tests did not show mutagenic effects

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

Genotoxicity in vitro

: Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Information taken from reference works and the literature.

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471

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Result: negative
GLP: yes
Information taken from reference works and the literature.

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: positive
GLP: yes
Information taken from reference works and the literature.

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Oral
Dose: 125 - 5000 mg/kg bw
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Information taken from reference works and the literature.

Test Type: unscheduled DNA synthesis assay
Species: Rat (male)
Cell type: mammalian liver cells
Application Route: Oral
Dose: 500, 1400 mg/kg bw
Method: OECD Test Guideline 486
Result: negative
GLP: yes
Information taken from reference works and the literature.

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Remarks : No data available

Carcinogenicity - Assessment : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rat, male and female
Application Route : Oral
Exposure time : 2 a
Control Group : yes
NOAEL : ca. 1.000 mg/kg bw/day
Method : No information available.
Result : negative

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GLP : No information available.
Remarks : Information taken from reference works and the literature.

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

Carcinogenicity - Assessment : No data available

2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

Carcinogenicity - Assessment : No data available

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

Remarks : No data available

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Product:

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Effects on fertility : No data available

Effects on foetal development : Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity Maternal: NOAEL: 500 mg/kg bw/day
Teratogenicity: NOAEL: 500 mg/kg bw/day
Method: No information available.
Result: No embryotoxic effects have been observed in animal tests., Reduced maternal body weight gain
GLP: No information available.
Information taken from reference works and the literature.

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Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

2-Methyl-2H-isothiazol-3-one:

Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

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

Effects on fertility : Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: NOAEL: 112 mg/kg bw/day
General Toxicity F1: NOAEL: 56,6 mg/kg bw/day
General Toxicity F2: NOAEL: 56,6 mg/kg bw/day
Method: OPPTS 870.3800
GLP: yes
Information taken from reference works and the literature.

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Product:

Remarks : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Remarks : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

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2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

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

Remarks : No data available

STOT - repeated exposure

Product:

Remarks : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Remarks : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

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

Remarks : No data available

Repeated dose toxicity

Product:

Remarks : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : Oral
Exposure time : 52 w
Control Group : yes
Method : No information available.
GLP : no
Remarks : Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

2-Methyl-2H-isothiazol-3-one:

Species : Rat, male and female

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NOAEL : >= 19,0 mg/kg
Application Route : Oral
Exposure time : 90 d
Control Group : yes
Method : OECD Test Guideline 408
GLP : No information available.
Remarks : Information taken from reference works and the literature.

Species : Dog, male and female
NOAEL : >= 9,9 mg/kg
Application Route : Oral
Exposure time : 90 d
Control Group : yes
Method : OECD Test Guideline 408
GLP : No information available.
Remarks : Information taken from reference works and the literature.

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

Species : Rat, male and female
NOAEL : 69 mg/kg
Application Route : Oral
Exposure time : 90 d
Control Group : yes
Method : OECD Test Guideline 408
GLP : yes
Remarks : Information taken from reference works and the literature.

Species : Rat, male and female
NOAEL : 150 mg/kg
Application Route : Oral
Exposure time : 28 d
Control Group : yes
Method : OECD Test Guideline 407
GLP : yes
Remarks : Information taken from reference works and the literature.

Aspiration toxicity

Product:

No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

No data available

2-Methyl-2H-isothiazol-3-one:

No data available

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

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Remarks : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

Experience with human exposure

Product:

General Information : No data available

Inhalation : No data available

Skin contact : No data available

Eye contact : No data available

Ingestion : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

General Information : No data available

Inhalation : No data available

Skin contact : No data available

Eye contact : No data available

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Ingestion : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

General Information : No data available

Inhalation : No data available

Skin contact : No data available

Eye contact : No data available

Ingestion : No data available

2-Methyl-2H-isothiazol-3-one:

General Information : Target Organs: Skin
Symptoms: sensitising effects

Inhalation : No data available

Skin contact : Target Organs: Skin
Symptoms: Sensitisation

Eye contact : No data available

Ingestion : No data available

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

General Information : No data available

Inhalation : No data available

Skin contact : Target Organs: Skin
Symptoms: Sensitisation

Eye contact : No data available

Ingestion : No data available

Neurological effects

Product:

Remarks : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Remarks : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

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2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

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

Remarks : No data available

Further information

Product:

Remarks : This product is a mixture. Health hazard information is based on its components.
The toxicological properties of this material have not been fully investigated

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae/aquatic plants : No data available

Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

Toxicity to microorganisms : No data available

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

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Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

- Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8,4 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: Regulation (EC) No. 440/2008, Annex, C.1
GLP: yes
Information taken from reference works and the literature.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9,8 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Information taken from reference works and the literature.
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 61 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Information taken from reference works and the literature.
- EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Information taken from reference works and the literature.
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 600 mg/l
Exposure time: 16 h
Test Type: static test
Method: DIN 38 412 Part 8
GLP: no
Information taken from reference works and the literature.
- Toxicity to fish (Chronic toxicity) : NOEC: 1,4 mg/l
End point: mortality
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 204
GLP: yes
Information taken from reference works and the literature.
- Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC: 0,6 mg/l
End point: toxic effects for reproduction

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ic toxicity) : Exposure time: 22 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Information taken from reference works and the literature.

Toxicity to soil dwelling organisms : NOEC: 500 mg/kg
Exposure time: 56 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 222
GLP:yes

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no
CESIO recommendations for the harmonized classification and labelling of surfactants

Toxicity to algae/aquatic plants : No data available

Toxicity to microorganisms : No data available

Toxicity to fish (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l
Species: Fish
Method: No information available.
GLP: No information available.
CESIO recommendations for the harmonized classification and labelling of surfactants
Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,36 - 0,81 mg/l
Species: Daphnia (water flea)
Method: No information available.
GLP: No information available.
CESIO recommendations for the harmonized classification

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and labelling of surfactants
Information given is based on data obtained from similar substances.

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

2-Methyl-2H-isothiazol-3-one:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,77 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,998 mg/l
Exposure time: 48 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,114 mg/l
End point: Growth rate
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Information taken from reference works and the literature.

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 2,38 mg/l
End point: Growth inhibition
Exposure time: 98 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 210
GLP: yes
Information taken from reference works and the literature.

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0442 mg/l
End point: Growth inhibition
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 211
GLP: yes
Information taken from reference works and the literature.

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: no
Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,94 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: no
Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,11 mg/l
End point: Growth rate
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: No information available.
Information taken from reference works and the literature.

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC0 (Pseudomonas putida): 1,05 mg/l
Exposure time: 30 min
Method: DIN 38412
GLP: no
Information taken from reference works and the literature.

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Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

12.2 Persistence and degradability

Product:

Biodegradability : No data available

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes
Information taken from reference works and the literature.

Biochemical Oxygen De- : No data available

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mand (BOD)

Chemical Oxygen Demand (COD) : 1.510 mg/g
Test substance: anhydrous substance

BOD/COD : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 69 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: no
Information taken from reference works and the literature.

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

2-Methyl-2H-isothiazol-3-one:

Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 47,6 - 54,1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: No information available.
Information taken from reference works and the literature.

Inoculum: activated sludge
Result: Biodegradable
Biodegradation: >= 50 %
Exposure time: 2 d
Method: OECD Test Guideline 303A
GLP: No information available.

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Information taken from reference works and the literature.

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

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

Biodegradability : Inoculum: activated sludge
Result: Biodegradable
Biodegradation: > 70 %
Method: OECD Test Guideline 303A
GLP: No information available.
Information taken from reference works and the literature.

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Photodegradation : No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : log Pow: 0,2 (20 °C)
pH: 7 - 8,5

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Method: Regulation (EC) No. 440/2008, Annex, A.8
GLP: no
Information taken from reference works and the literature.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : No data available

2-Methyl-2H-isothiazol-3-one:

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : log Pow: -0,32 (20 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: No information available.
Information taken from reference works and the literature.

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

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : log Pow: 0,7 (20 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: No information available.

12.4 Mobility in soil

Product:

Mobility : Medium: Soil
No data available

Medium: Water
No data available

Medium: Sediment
No data available

Medium: Air
No data available

Stability in soil : No data available

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Mobility : Medium: Soil
No data available

: Medium: Water

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No data available

: Medium: Sediment
No data available

: Medium: Air
No data available

Stability in soil : No data available

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Mobility : Medium: Soil
No data available

: Medium: Water
No data available

: Medium: Sediment
No data available

: Medium: Air
No data available

Stability in soil : No data available

2-Methyl-2H-isothiazol-3-one:

Mobility : Medium: Soil
No data available

: Medium: Water
No data available

: Medium: Sediment
No data available

: Medium: Air
No data available

Stability in soil : No data available

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

Mobility : Medium: Soil
No data available

: Medium: Water
No data available

: Medium: Sediment
No data available

: Medium: Air
No data available

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Stability in soil : No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2-Methyl-2H-isothiazol-3-one:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

Sulfonic acids, C14-17-sec-alkane, sodium salts:

Remarks : No data available

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Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Remarks : No data available

2-Methyl-2H-isothiazol-3-one:

Remarks : No data available

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

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.
Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents/ container to an approved waste disposal plant.
In accordance with local and national regulations.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Do not dispose of waste into sewer.
Do not dispose of together with household waste.

Contaminated packaging : Dispose of contents/ container to an approved waste disposal plant.
Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

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14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 0,03 %

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Carcinogenic substances:
portion Class 2: < 0,01 %

Mutagenic:
others: < 0,01 %

Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 0,03 %
Volatile CMR compounds: < 0,01 %

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A chemical safety assessment (Chemical Safety Assessment) is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H330 : Fatal if inhaled.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration

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associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Skin Irrit. 2	H315
Eye Dam. 1	H318
Skin Sens. 1	H317

Classification procedure:

Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.