

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - DE



## OKS 2200

Version	Revision Date:	Date of last issue: 26.01.2018	Print Date:
2.1	07.05.2020	Date of first issue: 22.06.2016	12.05.2020

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

#### 1.1 Product identifier

Product name : OKS 2200

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

Use of the Sub-  
stance/Mixture : Anticorrosion additive

Recommended restrictions  
on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: +49 8142 3051 500  
Fax.: +49 8142 3051 599

E-mail address of person  
responsible for the SDS : mcm@oks-germany.com  
National contact :

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : +49 8142 3051 517

### SECTION 2: Hazards identification


#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

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

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

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Precautionary statements : **Prevention:**

P261 Avoid breathing vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
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, petroleum, calcium salts

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

2-methylisothiazol-3(2H)-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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous emulsion

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9  01-2119488992-18-0000	Skin Sens.1B; H317	>= 10 % Skin Sens.1B,	>= 1 - < 10
2-methylisothiazol-	2682-20-4	Acute Tox.3; H301	>= 0,0015 %	>= 0,0025 - <

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3(2H)-one	220-239-6 613-326-00-9	Acute Tox.2; H330 Acute Tox.3; H311 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1A; H317 STOT SE3; H335 Aquatic Acute1; H400 Aquatic Chronic1; H410	Skin Sens.1A, H317  M-Factor: 10/1	0,025
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Acute1; H400	>= 0,05 % Skin Sens.1, H317  M-Factor: 1/	>= 0,0025 - < 0,025
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8	Acute Tox.3; H301 Skin Corr.1A; H314 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 10/1	>= 0,0025 - < 0,025
Substances with a workplace exposure limit :				
2,2',2''-nitrioltriethanol	102-71-6 203-049-8 01-2119486482-31-XXXX	Not classified		>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.

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- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Allergic appearance
- Risks : May cause an allergic skin reaction.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon oxides  
Nitrogen oxides (NOx)  
Sulphur oxides

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

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Further information : Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Do not breathe vapours or spray mist.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : 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.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which

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may still contain product residues.  
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

Storage class (TRGS 510) : 12, Non Combustible Liquids

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,2',2''-nitrilotriethanol	102-71-6	AGW (Inhalable fraction)	1 mg/m <sup>3</sup>	DE TRGS 900 (2018-06-07)
Peak-limit: excursion factor (category)	1;(I)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Sulfonic acids, petroleum, calcium salts	61789-86-4	AGW (Alveolate fraction)	5 mg/m <sup>3</sup>	DE TRGS 900 (2015-11-06)
Peak-limit: excursion factor (category)	4;(II)			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	AGW (Inhalable fraction)	0,05 mg/m <sup>3</sup>	DE TRGS 900 (2018-05-02)
Peak-limit: excursion factor (category)	8;(II)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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

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Substance name	End Use	Exposure routes	Potential health effects	Value
2,2',2''-nitrilotriethanol	Workers	Dermal	Long-term systemic effects	6,3 mg/kg
	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	5 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
2,2',2''-nitrilotriethanol	Soil	0,151 mg/kg
	Microbiological Activity in Sewage Treatment Systems	10 mg/l
	Fresh water	0,32 mg/l
	Marine water	0,032 mg/l
	Fresh water sediment	1,7 mg/kg
	Marine sediment	0,17 mg/kg

## 8.2 Exposure controls

### Engineering measures

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

Eye protection : Safety glasses with side-shields

### Hand protection

Material : butyl-rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type A-P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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### SECTION 9: Physical and chemical properties

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

Appearance	:	Emulsion
Colour	:	beige
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	8,8 (20 °C) Concentration: 100 %
Melting point/range	:	No data available
Boiling point/boiling range	:	100 °C (1.013 hPa)
Flash point	:	does not flash
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	9,4 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	0,98 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available



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Viscosity  
Viscosity, dynamic : No data available  
Viscosity, kinematic : 30 mm<sup>2</sup>/s (40 °C)  
Explosive properties : Not explosive  
Oxidizing properties : No data available

### 9.2 Other information

Flammability (liquids) : Will not burn  
Sublimation point : No data available  
Metal corrosion rate : Not corrosive to metals  
Self-ignition : not auto-flammable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: This information is not available.

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Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

### Components:

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

Acute oral toxicity : LD50 Oral (Rat): > 50 mg/kg  
Symptoms: Pain, Stomach/intestinal disorders  
Remarks: Toxic if swallowed.

Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: Risk of delayed pulmonary oedema.  
Effects of breathing high concentrations of vapour may include:  
Very toxic by inhalation.  
Irritating to respiratory system.  
Symptoms: Local irritation, Respiratory disorders, Inhalation may provoke the following symptoms:

Acute dermal toxicity : LD50 Dermal (Rabbit, female): 326 mg/kg  
Remarks: Very toxic in contact with skin.  
Symptoms: Blistering, Redness, Local irritation

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

Acute oral toxicity : LD50 Oral (Rat): 1.193 mg/kg  
Remarks: Harmful if swallowed.

Acute dermal toxicity : Symptoms: Redness, Local irritation

#### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Acute oral toxicity : LD50 Oral (Rat): 261 mg/kg  
Method: OECD Test Guideline 401

Remarks: Toxic if swallowed.

Symptoms: Pain, Stomach/intestinal disorders

Acute inhalation toxicity : Remarks: Risk of delayed pulmonary oedema.  
Effects of breathing high concentrations of vapour may in-

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clude:  
Irritating to respiratory system.

Acute dermal toxicity : Symptoms: Blistering, Redness

### **2,2',2''-nitrioltriethanol:**

Acute oral toxicity : LD50 (Rat): 6.400 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Remarks : This information is not available.

#### **Components:**

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

Species : Rabbit  
Result : Causes burns.

Remarks : Causes skin burns.

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

Result : Irritating to skin.  
Remarks : Irritating to skin.

##### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Result : Causes severe burns.

Remarks : Causes skin burns.

##### **2,2',2''-nitrioltriethanol:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks : This information is not available.

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### Components:

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

Remarks : Acute eye irritation/corrosion  
Causes eye burns.

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

Result : Risk of serious damage to eyes.  
Remarks : Severe eye irritation  
May irritate eyes.  
Risk of serious damage to eyes.

Remarks : Severe eye irritation  
May irritate eyes.  
Risk of serious damage to eyes.

#### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Result : No eye irritation  
Remarks : Acute eye irritation/corrosion  
Causes eye burns.

#### **2,2',2''-nitrioltriethanol:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### Product:

Remarks : This information is not available.

### Components:

#### **Sulfonic acids, petroleum, calcium salts:**

Assessment : The product is a skin sensitizer, sub-category 1B.

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

Species : Rabbit  
Assessment : May cause sensitisation by skin contact.

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

Assessment : May cause sensitisation by skin contact.

#### **2,2',2''-nitrioltriethanol:**

Species : Guinea pig

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Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available  
Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available  
Effects on foetal development : Remarks: No data available

### STOT - single exposure

#### Components:

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

Assessment : May cause respiratory irritation.

##### **2,2',2''-nitrioltriethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

#### Components:

##### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

##### **2,2',2''-nitrioltriethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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### Repeated dose toxicity

**Product:**

Remarks : This information is not available.

### Aspiration toxicity

**Product:**

This information is not available.

**Components:**

**2,2',2''-nitrioltriethanol:**

No aspiration toxicity classification

### Further information

**Product:**

Remarks : Information given is based on data on the components and the toxicology of similar products.

**Components:**

**2-methylisothiazol-3(2H)-one:**

Remarks : Ingestion causes burns of the upper digestive and respiratory tracts.

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

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

**N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Remarks : Ingestion causes burns of the upper digestive and respiratory tracts.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish : Remarks: Harmful to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic : Remarks: No data available

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plants

Toxicity to microorganisms :  
Remarks: No data available

### Components:

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,85 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 0,072 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

: 10

M-Factor (Chronic aquatic toxicity) : 1

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

Toxicity to fish : Remarks: Very toxic to aquatic organisms.

Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic organisms.

M-Factor (Acute aquatic toxicity) : 1

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

#### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,45 mg/l  
Exposure time: 96 h

Remarks: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,073 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EbC50 (Desmodesmus subspicatus (green algae)): 0,012 mg/l

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Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

#### 2,2',2''-nitrioltriethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 11.800 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 609,88 mg/l  
Exposure time: 48 h  
Test Type: flow-through test

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 216 mg/l  
Exposure time: 72 h  
Test Type: static test

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

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

Biodegradability : Result: Readily biodegradable.

#### 2,2',2''-nitrioltriethanol:

Biodegradability : Result: Readily biodegradable.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).



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### Components:

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

Partition coefficient: n-octanol/water : log Pow: -0,486

#### **2,2',2''-nitrioltriethanol:**

Partition coefficient: n-octanol/water : log Pow: -2,3 (25 °C)

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: 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:

#### **2,2',2''-nitrioltriethanol:**

Assessment : Non-classified vPvB substance. Non-classified PBT substance.

### 12.6 Other adverse effects

#### Product:

Additional ecological information : No information on ecology is available.

#### Components:

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

Additional ecological information : Very toxic to aquatic life.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic life.

#### **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine:**

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Additional ecological information : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic life.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : unused product  
16 10 01, aqueous liquid wastes containing hazardous substances

uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

## SECTION 14: Transport information

### 14.1 UN number

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

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**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Remarks : 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 - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

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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 contaminating class (Germany) : WGK 1 slightly 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: 1,94 %  
others: 13,83 %

Carcinogenic substances:

Not applicable

Mutagenic:

Not applicable

Toxic to reproduction:

Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

### 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

This information is not available.

## 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.  
H335 : May cause respiratory irritation.  
H373 : May cause damage to organs through prolonged or repeated exposure.

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H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 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; 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 Sens. 1 H317

#### Classification procedure:

Calculation method

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