

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**JANSEN** 

Article No.: 35-1-950  
Print date: 19.03.2021  
Version: 1.44

Überzugslack  
Revision date: 22.08.2020  
Issue date: 22.08.2020

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

**1.1. Product identifier**

Article No. (manufacturer/supplier): 35-1-950  
Trade name/designation: Überzugslack  
farblos  
seidenglänzend

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

**Relevant identified uses**

Varnish / paint

**Uses advised against**

Aware of any other information

**1.3. Details of the supplier of the safety data sheet**

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

P.A. Jansen GmbH u. Co., KG  
Hochstadenstraße 22  
D-53474 Bad Neuenahr-Ahrweiler  
Telephone: +49 2641 3897-0  
Telefax: +49 2641 3897-28  
Homepage: www.jansen.de

**Department responsible for information:**

laboratory  
E-mail (competent person): sicherheitsdatenblatt@jansen.de

**1.4. Emergency telephone number**

Emergency telephone number: +49 2641 3897-51  
Only available during office hours.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317      Respiratory or skin sensitisation      May cause an allergic skin reaction.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Warning**

**Hazard statements**

H317      May cause an allergic skin reaction.

**Precautionary statements**

P101      If medical advice is needed, have product container or label at hand.  
P102      Keep out of reach of children.  
P280      Wear protective gloves and eye/face protection.  
P501      Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

2-Methylisothiazol-3(2H)-one  
Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H  
-isothiazol-3- one [EC no. 220-239-6] (3:1)  
1,2-Benzisothiazol-3(2H)-one

**Supplemental hazard information**

No data available

**2.3. Other hazards**

No information available.

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

3.2. **Mixtures**

**Description** Water-color on acrylate base

**Hazardous ingredients**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

| EC No.<br>CAS No.<br>Index No.         | REACH No.<br>Designation<br>classification: // Remark  | weight-%  |
|--|--|-----------|
| 203-961-6<br>112-34-5<br>603-096-00-8  | 01-2119475104-44<br>2-(2-butoxyethoxy)ethanol<br>Eye Irrit. 2 H319   | 2,5 - 3   |
| 203-905-0<br>111-76-2<br>603-014-00-0  | 01-2119475108-36<br>2-Butoxyethanol<br>Acute Tox. 4 H332 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / Eye Irrit. 2 H319 / Skin Irrit. 2 H315  | 1,5 - 2   |
| 204-469-4<br>121-44-8<br>612-004-00-5  | 01-2119475467-26<br>triethylamine<br>Acute Tox. 4 H302 / Acute Tox. 3 H311 / Acute Tox. 3 H331 / Skin Corr. 1A H314 / Eye Dam. 1 H318 / STOT SE 3 H335 / Flam. Liq. 2 H225<br>Specific concentration limit (SCL): STOT SE 3 H335 >= 1  | 0,3 - 0,5 |
| 220-239-6<br>2682-20-4<br>613-326-00-9 | 01-2120764690-50<br>2-Methylisothiazol-3(2H)-one<br>Acute Tox. 3 H301 / Acute Tox. 3 H311 / Acute Tox. 2 H330 / Skin Corr. 1B H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410 (M = 1)<br>Specific concentration limit (SCL): Skin Sens. 1A H317 >= 0,0015 / Acute Tox. 4 H332 >= 3 / Skin Irrit. 2 H315 >= 5 / Eye Irrit. 2 H319 >= 5 / Skin Corr. 1B H314 >= 10 / Acute Tox. 3 H331 >= 25 / Acute Tox. 4 H302 >= 25 / Aquatic Acute 1 H400 >= 25                                     | < 0,025   |
| 220-120-9<br>2634-33-5<br>613-088-00-6 | 01-2120761540-60<br>1,2-Benzisothiazol-3(2H)-one<br>Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 2 H411<br>Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0,05  | < 0,025   |
| 55965-84-9<br>613-167-00-5             | 01-2120764691-48<br>Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)<br>Acute Tox. 3 H301 / Acute Tox. 2 H310 / Acute Tox. 2 H330 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100)<br>Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0,6 / Skin Irrit. 2 H315 >= 0,06 / Eye Dam. 1 H318 >= 0,6 / Eye Irrit. 2 H319 >= 0,06 / Skin Sens. 1 H317 >= 0,0015 | < 0,025   |

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

4.1. **Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do

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not use solvents or thinners.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**

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

4.3. **Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Unsuitable extinguishing media**

strong water jet

5.2. **Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**

Provide a conveniently located respiratory protective device.

**Additional information**

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**

Observe protective provisions (see section 7 and 8).

**SECTION 7: Handling and storage**

7.1. **Precautions for safe handling**

**Advices on safe handling**

The usual precautionary measures for handling chemicals should be observed.

**Further information**

No special measures are required.

7.2. **Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

No special measures are required. Keep container tightly closed. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Keep away from frost! Keep only in the original container in a cool, well-ventilated place. Take care of instructions on label.

7.3. **Specific end use(s)**

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Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

WEL, TWA: 67,5 mg/m<sup>3</sup>; 10 ppm

WEL, STEL: 101,2 mg/m<sup>3</sup>; 15 ppm

2-Butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m<sup>3</sup>; 25 ppm

WEL, STEL: 246 mg/m<sup>3</sup>; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

Silicon dioxide

EC No. 231-545-4 / CAS No. 7631-86-9

WEL, TWA: 6 mg/m<sup>3</sup>

Remark: (Silica, amorphous; inhalable fraction)

WEL, TWA: 2,4 mg/m<sup>3</sup>

Remark: (Silica, amorphous; respirable fraction)

triethylamine

Index No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

WEL, TWA: 8 mg/m<sup>3</sup>; 2 ppm

WEL, STEL: 17 mg/m<sup>3</sup>; 4 ppm

Remark: (may be absorbed through the skin)

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

Propane-1,2-diol

EC No. 200-338-0 / CAS No. 57-55-6

DNEL long-term inhalative (local), Workers: 10 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 168 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 85 mg/kg

DNEL long-term dermal (systemic), Consumer: 213 mg/kg

DNEL long-term inhalative (local), Consumer: 10 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 50 mg/m<sup>3</sup>

Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

EC No. 246-771-9 / CAS No. 25265-77-4

DNEL long-term dermal (systemic), Workers: 13,9 mg/kg

DNEL long-term inhalative (systemic), Workers: 49 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 8,33 mg/kg

DNEL long-term dermal (systemic), Consumer: 8,33 mg/kg

DNEL long-term inhalative (systemic), Consumer: 14,5 mg/m<sup>3</sup>

2-Butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg

DNEL long-term dermal (systemic), Workers: 125 mg/kg

DNEL acute inhalative (local), Workers: 246 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 1091 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 98 mg/m<sup>3</sup>

DNEL short-term oral (acute), Consumer: 26,7 mg/kg

DNEL long-term oral (repeated), Consumer: 6,3 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 89 mg/kg

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DNEL long-term dermal (systemic), Consumer: 75 mg/kg  
DNEL acute inhalative (local), Consumer: 426 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 147 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 59 mg/m<sup>3</sup>

2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

DNEL long-term dermal (systemic), Workers: 20 mg/kg  
DNEL acute inhalative (local), Workers: 101,2 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 67,5 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 67,5 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 1,25 mg/kg  
DNEL long-term dermal (systemic), Consumer: 10 mg/kg  
DNEL acute inhalative (local), Consumer: 50,6 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 34 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 34 mg/m<sup>3</sup>

triethylamine

Index No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

DNEL long-term dermal (systemic), Workers: 12,1 mg/kg  
DNEL acute inhalative (local), Workers: 12,6 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 12,6 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 8,4 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 8,4 mg/m<sup>3</sup>

**PNEC:**

Propane-1,2-diol

EC No. 200-338-0 / CAS No. 57-55-6

PNEC aquatic, freshwater: 260 mg/L  
PNEC aquatic, marine water: 26 mg/L  
PNEC aquatic, intermittent release: 183 mg/L  
PNEC sediment, freshwater: 572 mg/kg  
PNEC sediment, marine water: 57,2 mg/kg  
PNEC, soil: 50 mg/kg  
PNEC sewage treatment plant (STP): 2000 mg/L  
PNEC Secondary Poisoning: 1133 mg/kg

Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

EC No. 246-771-9 / CAS No. 25265-77-4

PNEC aquatic, freshwater: 0,015 mg/L  
PNEC aquatic, marine water: 0,002 mg/L  
PNEC sediment, freshwater: 0,78 mg/kg  
PNEC sediment, marine water: 0,078 mg/kg  
PNEC, soil: 0,147 mg/kg  
PNEC sewage treatment plant (STP): 7,5 mg/L  
PNEC Secondary Poisoning: 66,7 mg/kg

2-Butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/L  
PNEC aquatic, marine water: 0,88 mg/L  
PNEC aquatic, intermittent release: 9,1 mg/L  
PNEC sediment, freshwater: 34,6 mg/kg  
PNEC sediment, marine water: 3,46 mg/kg  
PNEC, soil: 2,33 mg/kg  
PNEC sewage treatment plant (STP): 463 mg/L  
PNEC Secondary Poisoning: 20 mg/kg

2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

PNEC aquatic, freshwater: 1 mg/L  
PNEC aquatic, marine water: 0,1 mg/L  
PNEC aquatic, intermittent release: 3,9 mg/L  
PNEC sediment, freshwater: 4,4 mg/kg  
PNEC sediment, marine water: 0,44 mg/kg  
PNEC, soil: 0,32 mg/kg

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PNEC sewage treatment plant (STP): 200 mg/L  
PNEC Secondary Poisoning: 56 mg/kg

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Index No. 613-167-00-5 / CAS No. 55965-84-9

PNEC aquatic, freshwater:  $4,9 \times 10^{-5}$  mg/L

PNEC aquatic, marine water:  $9,8 \times 10^{-6}$  mg/L

PNEC sewage treatment plant (STP):  $4,5 \times 10^{-6}$  mg/L

triethylamine

Index No. 612-004-00-5 / EC No. 204-469-4 / CAS No. 121-44-8

PNEC aquatic, freshwater: 0,11 mg/L

PNEC aquatic, marine water: 0,011 mg/L

PNEC aquatic, intermittent release: 0,064 mg/L

PNEC sediment, freshwater: 1,575 mg/kg

PNEC sediment, marine water: 0,158 mg/kg

PNEC, soil: 0,25 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

## 8.2. Exposure controls

Provide good ventilation.

### Personal protection equipment

#### **Respiratory protection**

Recommended respiratory protection articles: Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

#### **Hand protection**

Wear protective gloves. Suitable material: NBR (Nitrile rubber)

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

Wear closely fitting protective glasses in case of splashes.

#### **Body protection**

No special measures are necessary.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

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

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

#### **Appearance:**

**Physical state:**

**Liquid**

**Colour:**

**colourless**

**Odour:**

**characteristic**

**Odour threshold:**

**No data available**

**pH at 20 °C:**

**7 - 8 / 100,0 weight-%**

**Melting point/freezing point:**

**-70 °C**

Source: 2-Butoxyethanol

**Initial boiling point and boiling range:**

**89 °C**

Source: triethylamine

**Flash point:**

**Not applicable.**

**Evaporation rate:**

**No data available**

**flammability**

**Burning time:**

**No data available**

**Upper/lower flammability or explosive limits:**

**Lower explosion limit:**

**0,8 Vol-%**

Method: literature value

**Upper explosion limit:**

**No data available**

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|  |   |
|--|---|
| <b>Vapour pressure at 20 °C:</b>               | <b>0,89 mbar</b><br>Source: 2-Butoxyethanol       |
| <b>Vapour density:</b>                         | <b>No data available</b>                          |
| <b>Relative density:</b>                       |   |
| <b>Density at 20 °C:</b>                       | <b>1,03 g/cm<sup>3</sup></b><br>Method: DIN 53217 |
| <b>Solubility(ies):</b>                        |   |
| <b>Water solubility at 20 °C:</b>              | <b>partially soluble</b>                          |
| <b>Partition coefficient: n-octanol/water:</b> | <b>see section 12</b>                             |
| <b>Auto-ignition temperature:</b>              | <b>No data available</b>                          |
| <b>Decomposition temperature:</b>              | <b>No data available</b>                          |
| <b>Viscosity at 23 °C:</b>                     | <b>120 s 4 mm</b><br>Method: DIN 53211            |
| <b>Explosive properties:</b>                   | <b>No data available</b>                          |
| <b>Oxidising properties:</b>                   | <b>No data available</b>                          |
| 9.2. <b>Other information</b>                  |   |
| <b>Solid content:</b>                          | <b>24 weight-%</b>                                |
| <b>solvent content:</b>                        |   |
| <b>Organic solvents:</b>                       | <b>7 weight-%</b>                                 |
| <b>Water:</b>                                  | <b>66 weight-%</b>                                |

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

No information available.

##### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

##### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

##### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

##### 10.5. Incompatible materials

not applicable

##### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

#### SECTION 11: Toxicological information

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

No data on preparation itself available.

##### 11.1. Information on toxicological effects

###### Acute toxicity

Silicon dioxide

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (dust and mist), LC50, Rat: > 58,8 mg/L (4 h)

Method: OECD 403

Propane-1,2-diol

oral, LD50, Rat: 22000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 20 mg/L (4 h)

Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol



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oral, LD50, Rat: 6500 mg/kg  
dermal, LD50, Rabbit: 15200 mg/kg

**2-Butoxyethanol**

dermal, LD50, Rat: > 2000 mg/kg  
Method: OECD 402  
dermal, LD50, Rabbit: 1060 mg/kg  
Method: OECD 402  
inhalative (vapours), LC50, Rat: 2,2 mg/L (4 h)  
oral, LD50, Guinea pig: 1414 mg/kg  
Method: OECD 401

**2-(2-butoxyethoxy)ethanol**

oral, LD50, Rat: > 2000 mg/kg 2410 - 3305 mg/kg  
dermal, LD50, Rabbit: 2764 mg/kg  
Method: OECD 402  
inhalative (dust and mist), LC50, Rat: > 29 mg/L (2 h)  
Method: OECD 403

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

oral, LD50, Rat: 49,6 mg/kg 49,6 - 75 mg/kg  
Method: OECD 401  
dermal, LD50, Rabbit: 92,4 mg/kg  
inhalative (vapours), LC50, Rat: 0,33 mg/L (4 h)  
inhalative (dust and mist), LC50, Rat: 0,171 mg/L (4 h)

**triethylamine**

oral, LD50, Rat: 730 mg/kg  
dermal, LD50, Rabbit: 580 mg/kg  
inhalative (vapours), LC50, Rat: 7,22 mg/L (4 h)

**1,2-Benzisothiazol-3(2H)-one**

oral, LD50, Rat 670 - 784 mg/kg  
Method: OECD 401  
dermal, LD50, Rat: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rat: 0,5 mg/L (4 h)

**Skin corrosion/irritation; Serious eye damage/eye irritation**

**2-(2-butoxyethoxy)ethanol**

eyes  
irritant.

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Skin, Rabbit (4 h)  
Corrosive  
eyes, Rabbit  
Risk of serious damage to eyes.

**1,2-Benzisothiazol-3(2H)-one**

Skin, Rabbit  
Method: OECD 404  
mild irritant.  
eyes, Rabbit  
Method: OECD 405  
strongly irritant.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Skin, Guinea pig: ; Evaluation sensitising  
Method: OECD 406

**1,2-Benzisothiazol-3(2H)-one**

Skin, Guinea pig:



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Method: OECD 406  
Skin sensitisation

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Based on available data, the classification criteria are not met.

**STOT-single exposure; STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Practical experience/human evidence**

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and has not been classified.

**SECTION 12: Ecological information**

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

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

Silicon dioxide

Fish toxicity, LC50, Danio rerio (zebrafish): > 10000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: > 1000 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Desmodesmus subspicatus: > 10000 mg/L (72 h)

Method: OECD 201

Propane-1,2-diol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 40613 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Mysidopsis bahia: 18340 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 19000 mg/L (96 h)

Method: OECD 201

Bacteria toxicity, NOEC, Pseudomonas putida: > 20000 mg/L (18 h)

Isobutyric acid, monoester with 2,2,4-trimethylpentane-1,3-diol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 33 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 147,8 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 15 mg/L (72 h)

2-Butoxyethanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 1550 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, Pseudomonas putida: 700 mg/L (16 h)

2-(2-butoxyethoxy)ethanol

Fish toxicity, LC50, Lepomis macrochirus (Bluegill): 1300 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50: > 100 mg/L (48 h)

Bacteria toxicity, EC50: 255 mg/L

Algae toxicity, EC50, Scenedesmus subspicatus: > 100 mg/L (96 h)

Method: OECD 201

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Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,22 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 0,1 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 0,048 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC50, Activated sludge: 7,92 (3 h)

Method: OECD 209

2-Methylisothiazol-3(2H)-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 6 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia pulex (water flea): 1,6 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,157 mg/L (72 h)

Bacteria toxicity, EC50, Activated sludge: 34,6 mg/L (3 h)

triethylamine

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 36 mg/L (96 h)

Bacteria toxicity, EC50, Pseudomonas putida: 95 mg/L (17 h)

Daphnia toxicity, LC50, Ceriodaphnia spec: 17 mg/L (48 h)

Algae toxicity, EC50, Desmodesmus subspicatus: 24,8 mg/L (96 h)

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

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1,6 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 3,27 mg/L (48 h)

Method: OECD 202

Algae toxicity, EC50, Selenastrum capricornutum: 0,11 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC20, Activated sludge: 3,3 mg/L (3 h)

Method: OECD 209

### Long-term Ecotoxicity

Silicon dioxide

Fish toxicity, NOEC: 86,03 mg/L (30 d)

Propane-1,2-diol

Daphnia toxicity, NOEC, Ceriodaphnia spec: 13020 mg/L (7 d)

2-Butoxyethanol

Fish toxicity, LC50 (96 h)

Daphnia toxicity, NOEC, Daphnia magna: 100 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 62,5 mg/L (72 h)

Method: OECD 201

Daphnia toxicity, EC50, Daphnia magna: 297 mg/L (21 d)

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,098 mg/L (28 d)

Method: OECD 210

Daphnia toxicity, NOEC, Daphnia magna: 0,004 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,0012 mg/L (72 h)

triethylamine

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 3,2 mg/L (60 d)

Daphnia toxicity, NOEC, Ceriodaphnia spec: 7,1 mg/L (7 d)

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

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,21 mg/L (28 d)

Method: OECD 215

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 1,2 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Selenastrum capricornutum: 0,04 mg/L (72 h)

Method: OECD 201

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## 12.2. Persistence and degradability

Propane-1,2-diol

Biodegradation: 81 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

2-Butoxyethanol

Biodegradation: 90,4 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301B

2-(2-butoxyethoxy)ethanol

Biodegradation: > 70 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301E

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Biodegradation: < 50 % (10 d)

Method: OECD 301B

Not readily biodegradable (according to OECD criteria)

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

Biodegradation:

Method: OECD 301C

Moderately/partially biodegradable.

## 12.3. Bioaccumulative potential

Propane-1,2-diol

Partition coefficient n-octanol /water (log P O/W):: -1,07

2-Butoxyethanol

Partition coefficient n-octanol /water (log P O/W):: 0,81

2-(2-butoxyethoxy)ethanol

Partition coefficient n-octanol /water (log P O/W):: 1

Method: OECD 117

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Partition coefficient: n-octanol/water: -0,71 - -0,75

2-Methylisothiazol-3(2H)-one

Partition coefficient: n-octanol/water: <= 0,32

triethylamine

Partition coefficient: n-octanol/water: 1,45

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

Partition coefficient n-octanol /water (log P O/W):: 0,7

Method: OECD 117

## Bioconcentration factor (BCF)

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Bioconcentration factor (BCF): 3,6

Method: OECD 107

Does not accumulate in organisms.

2-Methylisothiazol-3(2H)-one

Bioconcentration factor (BCF): 3,16

triethylamine

Bioconcentration factor (BCF): < 0,5

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

Bioconcentration factor (BCF): 6,95

## 12.4. Mobility in soil

Toxicological data are not available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Other adverse effects

No information available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

##### List of proposed waste codes/waste designations in accordance with EWC

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

##### Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information

**This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).**

**No dangerous good in sense of this transport regulation.**

#### 14.1. UN number

No data available

#### 14.2. UN proper shipping name

#### 14.3. Transport hazard class(es)

No data available

#### 14.4. Packing group

No data available

#### 14.5. Environmental hazards

Land transport (ADR/RID)

No data available

Marine pollutant

No data available

#### 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

##### Further information

##### Land transport (ADR/RID)

tunnel restriction code

-

##### Sea transport (IMDG)

EmS-No.

No data available

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

not applicable

### SECTION 15: Regulatory information

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

##### EU legislation

##### Regulation (EU) No. 528/2012 on biocides

Treated goods:

The mixture contains biocidal active ingredients.

Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one

[EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no.

220-239-6] (3:1)

2-Methylisothiazol-3(2H)-one

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

**Use**

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2015/830**



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Main group 2: Preservatives

Product-type 6: Preservatives for products during storage

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

This product is not classified according to Directive 2012/18/EU.

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/i) ; VOC limit value: 140 g/l

Maximum VOC content (g/L) of the product in a ready to use condition: 140

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No.      | Designation  | REACH No.        |
|------------------------|--|------------------|
| 203-961-6<br>112-34-5  | 2-(2-butoxyethoxy)ethanol  | 01-2119475104-44 |
| 203-905-0<br>111-76-2  | 2-Butoxyethanol  | 01-2119475108-36 |
| 204-469-4<br>121-44-8  | triethylamine  | 01-2119475467-26 |
| 220-239-6<br>2682-20-4 | 2-Methylisothiazol-3(2H)-one   | 01-2120764690-50 |
| 220-120-9<br>2634-33-5 | 1,2-Benzisothiazol-3(2H)-one   | 01-2120761540-60 |
| 55965-84-9             | Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1) | 01-2120764691-48 |

**SECTION 16: Other information**

**Full text of classification in section 3:**

|                          |                                      |   |
|--------------------------|--------------------------------------|---|
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.                        |
| Acute Tox. 4 / H332      | Acute toxicity (inhalative)          | Harmful if inhaled.                                   |
| Acute Tox. 4 / H312      | Acute toxicity (dermal)              | Harmful in contact with skin.                         |
| Acute Tox. 4 / H302      | Acute toxicity (oral)                | Harmful if swallowed.                                 |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.                               |
| Acute Tox. 3 / H311      | Acute toxicity (dermal)              | Toxic in contact with skin.                           |
| Acute Tox. 3 / H331      | Acute toxicity (inhalative)          | Toxic if inhaled.                                     |
| Skin Corr. 1A / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.              |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.                            |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.                     |
| Flam. Liq. 2 / H225      | Flammable liquids                    | Highly flammable liquid and vapour.                   |
| Acute Tox. 3 / H301      | Acute toxicity (oral)                | Toxic if swallowed.                                   |
| Acute Tox. 2 / H330      | Acute toxicity (inhalative)          | Fatal if inhaled.                                     |
| Skin Corr. 1B / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.              |
| Skin Sens. 1A / H317     | Respiratory or skin sensitisation    | May cause an allergic skin reaction.                  |
| Aquatic Acute 1 / H400   | Hazardous to the aquatic environment | Very toxic to aquatic organisms.                      |
| Aquatic Chronic 1 / H410 | Hazardous to the aquatic environment | Very toxic to aquatic life with long lasting effects. |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.                  |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects.      |
| Acute Tox. 2 / H310      | Acute toxicity (dermal)              | Fatal in contact with skin.                           |
| Skin Corr. 1C / H314     | Skin corrosion/irritation            | Causes severe skin burns and eye damage.              |

**Classification procedure**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1                      Respiratory or skin sensitisation                      Calculation method.

**Abbreviations and acronyms**

ADR                      European Agreement concerning the International Carriage of Dangerous Goods by Road  
 OEL                      Occupational Exposure Limit Value

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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|           |   |
|-----------|---|
| BLV       | Biological Limit Value  |
| CAS       | Chemical Abstracts Service  |
| CLP       | Classification, Labelling and Packaging   |
| CMR       | Carcinogenic, Mutagenic and Reprotoxic  |
| DIN       | German Institute for Standardization / German industrial standard   |
| DNEL      | Derived No-Effect Level   |
| EAKV      | European Waste Catalogue Directive  |
| EC        | Effective Concentration   |
| EC        | European Community  |
| EN        | European Standard   |
| IATA-DGR  | International Air Transport Association – Dangerous Goods Regulations   |
| IBC Code  | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk               |
| ICAO-TI   | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods   |
| ISO       | International Organization for Standardization  |
| LC        | Lethal Concentration  |
| LD        | Lethal Dose   |
| MARPOL    | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships                       |
| OECD      | Organisation for Economic Cooperation and Development   |
| PBT       | persistent, bioaccumulative, toxic  |
| PNEC      | Predicted No Effect Concentration   |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID       | Regulations concerning the International Carriage of Dangerous Goods by Rail                                      |
| UN        | United Nations  |
| VOC       | Volatile Organic Compounds  |
| vPvB      | very persistent and very bioaccumulative  |

**Data sources:**

Data arise from reference works and literature.

**Further information**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.