

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision Number: 1

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

1.1. Product identifier

Product Name: Conti Siloxangrundierung Lf
Article number: 071420360000

Hazard components for labeling:

Contains 3(2H)-Isothiazolone, 2-methyl-, 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

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

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners

1.3. Details of the supplier of the safety data sheet

Supplier: conti coatings GmbH & Co. KG
Feldstrasse 55
D - 46149 Oberhausen
Telefon: +49 208/ 9948-0
Telefax: +49 208/ 650625
www.conticoatings.com

E-mail address: sds.ob@conticoatings.com

1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

| | |
|--|--|
| Emergency Telephone - §45 - (EC)1272/2008 | |
| Europe | 112 |
| Austria | +43 1 406 43 43 (Giftinformationszentrale) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|---------------------------|----------------------|
| Skin sensitization | Category 1A - (H317) |
|---------------------------|----------------------|

2.2. Label elements



Signal word: Warning

Hazard components for labeling:

Contains 3(2H)-Isothiazolone, 2-methyl-, 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with

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2-methyl-3(2H)-isothiazolone

Hazard statements:

H317 - May cause an allergic skin reaction.

Precautionary Statements - EU (§28, 1272/2008):

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | CAS No | EC No | REACH registration number | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Weight-% |
|---------------------------------|-----------|-----------|---------------------------|--|----------------|
| Ammonium hydroxide | 1336-21-6 | 215-647-6 | 01-2119488876-14 | Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) | 0.1 - < 0.25 |
| 2-Bromo-2-nitro-1,3-propanediol | 52-51-7 | 200-143-0 | 01-2119980938-15 | Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | 0.01 - < 0.05 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 | 01-2120761540-60 | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) | 0.01 - < 0.05 |
| 3(2H)-Isothiazolone, 2-methyl- | 2682-20-4 | 220-239-6 | 01-2120764690-50 | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) | 0.005 - < 0.01 |

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| | | | | | |
|--|------------|------------------------|------------------|---|-----------------|
| | | | | Aquatic Chronic 1 (H410) (EUH071) | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | 55965-84-9 | 611-341-5 911-418-6 | 01-2120764691-48 | Acute Tox. 3 (H301) Acute Tox. 2 (H310) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071) | 0.001 - < 0.005 |

| Chemical name | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | Notes |
|--|---|----------|----------------------|-------|
| Ammonium hydroxide 1336-21-6 | STOT SE 3 (H335):: C>=5% | | | B |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | | 10 | 1 | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Skin Sens. 1 :: C>=0.05% | | | |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | Skin Sens. 1A :: C>=0.0015% | 10 | 10 | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Skin Corr. 1C :: C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6% Eye Dam. 1 :: C>=0.6% Eye Irrit. 2 :: 0.06%<=C<0.6% Skin Sens. 1A :: C>=0.0015% | 100 | 100 | |

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapor - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------------|-------------------|---|---|--------------------------------------|
| Ammonium hydroxide 1336-21-6 | 350 | No data available | No data available | No data available | No data available |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | 180 | 1600 | No data available | No data available | No data available |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 490 | 2000 | 0.0501 | 0.501 | No data available |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | 120 | 242 | 0.34 | 0.501 | No data available |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | 457 | 660 | 0.0501 | 0.501 | No data available |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------|--|
| General advice: | Show this safety data sheet to the doctor in attendance. |
| Inhalation: | Remove to fresh air. |
| Eye contact: | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| Skin contact: | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. |
| Ingestion: | Rinse mouth. |

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

Symptoms: Itching. Rashes. Hives.

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

Note to physicians: May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------|---|
| Suitable Extinguishing Media: | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Large Fire: | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media: | Do not scatter spilled material with high pressure water streams. |

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Other information: No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits:

| | | | | | | |
|---------------|--------|-------|----------|---------|---------|----------------|
| Chemical name | France | Italy | Portugal | Finland | Denmark | Czech Republic |
|---------------|--------|-------|----------|---------|---------|----------------|

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| Chemical name | France | Italy | Portugal | Finland | Denmark | Czech Republic |
|---------------------------------|--------|-------|----------|--|---------|----------------|
| Ammonium hydroxide 1336-21-6 | | | | TWA: 20 ppm TWA: 14 mg/m ³ STEL: 50 ppm STEL: 36 mg/m ³ | | |

| Chemical name | Austria | Switzerland | Poland | Norway | Ireland | Russia |
|---|------------------------------------|---|--------|--------|---------|--------|
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | TWA: 0.05 mg/m ³ Sh+ | S+ TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³ | | | | |
| 5-Chloro-2-methyl-3(2H)-i sothiazolone, mixture with 2-methyl-3(2H)-isothiazolo ne 55965-84-9 | TWA: 0.05 mg/m ³ Sh+ | S+ TWA: 0.2 mg/m ³ | | | | |

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---|------------------------|------------------------|-------------------------|-------------------------|
| 2-Bromo-2-nitro-1,3-propaned iol | 3.5 mg/m ³ | 10.5 mg/m ³ | 2.5 mg/m ³ | 2.5 mg/m ³ |
| 1,2-Benzisothiazol-3(2H)-one | 6.81 mg/m ³ | | | |
| 3(2H)-Isothiazolone, 2-methyl- | | | 0.021 mg/m ³ | 0.043 mg/m ³ |
| 5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with 2-methyl-3(2H)-isothiazolone | | | 0.02 mg/m ³ | 0.04 mg/m ³ |

Worker - dermal:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|-------------------------------------|---------------------|----------------------|----------------------|----------------------|
| 2-Bromo-2-nitro-1,3-propaned iol | 2 mg/kg bw/day | 6 mg/kg bw/day | 8 µg/cm ² | 8 µg/cm ² |
| 1,2-Benzisothiazol-3(2H)-one | 0.966 mg/kg bw/day | | | |

Consumer - inhalative:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---|-----------------------|-----------------------|-------------------------|-------------------------|
| 2-Bromo-2-nitro-1,3-propaned iol | 0.6 mg/m ³ | 1.8 mg/m ³ | | 0.6 mg/m ³ |
| 1,2-Benzisothiazol-3(2H)-one | 1.2 mg/m ³ | | | |
| 3(2H)-Isothiazolone, 2-methyl- | | | 0.021 mg/m ³ | 0.043 mg/m ³ |
| 5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with 2-methyl-3(2H)-isothiazolone | | | 0.02 mg/m ³ | 0.04 mg/m ³ |

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Consumer - dermal:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|---------------------------------|---------------------|----------------------|----------------------|----------------------|
| 2-Bromo-2-nitro-1,3-propanediol | 0.7 mg/kg bw/day | 2.1 mg/kg bw/day | 4 µg/cm ² | 4 µg/cm ² |
| 1,2-Benzisothiazol-3(2H)-one | 0.345 mg/kg bw/day | | | |

consumer - oral:

| Chemical name | long term, systemic | short term, systemic | long term, local | short term, local |
|--|---------------------|----------------------|------------------|-------------------|
| 2-Bromo-2-nitro-1,3-propanediol | 0.18 mg/kg bw/day | 0.5 mg/kg bw/day | | |
| 3(2H)-Isothiazolone, 2-methyl- | 0.027 mg/kg bw/day | 0.053 mg/kg bw/day | | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone | 0.09 mg/kg bw/day | 0.11 mg/kg bw/day | | |

Predicted No Effect Concentration (PNEC):

component information:

| | |
|-------------------------------------|---|
| Chemical name | 2-Bromo-2-nitro-1,3-propanediol CAS: 52-51-7 |
| Freshwater | 0.01 mg/L |
| Marine water | 0.0008 mg/L |
| Freshwater (intermittent release) | 0.0025 mg/L |
| Sewage treatment | 0.43 mg/L |
| Freshwater sediment | 0.041 mg/kg sediment dw |
| Marine sediment | 0.00328 mg/kg sediment dw |
| Soil | 0.5 mg/kg soil dw |
| Chemical name | 1,2-Benzisothiazol-3(2H)-one CAS: 2634-33-5 |
| Freshwater | 4.03 µg/L |
| Marine water | 0.403 µg/L |
| Freshwater (intermittent release) | 1.1 µg/L |
| Marine water (intermittent release) | 110 ng/L |
| Sewage treatment | 1.03 mg/L |
| Freshwater sediment | 49.9 µg/kg sediment dw |
| Marine sediment | 4.99 µg/kg sediment dw |
| Soil | 3 mg/kg soil dw |
| Chemical name | 3(2H)-Isothiazolone, 2-methyl- CAS: 2682-20-4 |
| Freshwater | 3.39 µg/L |
| Marine water | 3.39 µg/L |
| Freshwater (intermittent release) | 3.39 µg/L |
| Marine water (intermittent release) | 3.39 µg/L |
| Sewage treatment | 0.23 mg/L |
| Soil | 0.0471 mg/kg soil dw |
| Chemical name | 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone CAS: 55965-84-9 |
| Freshwater | 3.39 µg/L |

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| | |
|-------------------------------------|-------------------------|
| Marine water | 3.39 µg/L |
| Freshwater (intermittent release) | 3.39 µg/L |
| Marine water (intermittent release) | 3.39 µg/L |
| Sewage treatment | 0.23 mg/L |
| Freshwater sediment | 0.027 mg/kg sediment dw |
| Marine sediment | 0.027 mg/kg sediment dw |
| Soil | 0.01 mg/kg soil dw |

8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment: The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear suitable gloves.

| PPE - Glove material | Glove thickness | Break through time |
|----------------------|-----------------|--------------------|
| NBR (Nitrile rubber) | 0.4 mm | >=480 min. |

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec) with filter: AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Liquid
 Color: whitish
 Odor: characteristic

| | Conditions | Method | Remarks |
|-------------------------------|---------------------------|--------|-----------------|
| Melting point / melting range | | | Not established |
| Boiling point / boiling range | > 107 °C | | |
| Flammability | | | Not established |
| Decomposition temperature | | | not relevant |
| Flash point | | | None known |
| Autoignition temperature | | | None known |
| Lower explosive limit | | | not relevant |
| Upper explosion limit | | | not relevant |
| Vapor pressure | | | Not established |
| Density | ~ 1.014 g/cm ³ | 20 °C | |
| Water solubility | | | Miscible |

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| | | | | |
|----------------------------|---|-------------------|-------|-----------------|
| pH | ~ | 9 | 20 °C | |
| pH (as aqueous solution) | | | | Not established |
| Partition coefficient | | | | Not established |
| Kinematic viscosity | | | | None known |
| Odor threshold | | | | Not established |
| Relative density | | | | Not established |
| Evaporation rate | | | | Not established |
| Relative vapor density | | no data available | | |
| Particle Size | | no data available | | |
| Particle Size Distribution | | no data available | | |

9.2. Other information

| | |
|------------------|--------------------------|
| Bulk density: | no data available |
| Softening point | No information available |
| Molecular weight | No information available |

9.2.1. Information with regard to physical hazard classes:

| | |
|----------------------|------------------|
| Explosive properties | Not an explosive |
| Oxidizing properties | Not oxidising. |

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

| | |
|-----------------------------------|-------|
| Sensitivity to mechanical impact: | None. |
| Sensitivity to static discharge: | None. |

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: None known based on information supplied.

10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

- Inhalation: Specific test data for the substance or mixture is not available.
- Eye contact: Specific test data for the substance or mixture is not available.
- Skin contact: May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
- Ingestion: Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Itching. Rashes. Hives.

Numerical measures of toxicity:

Acute toxicity: No information available

Component Information:

| Chemical name | Parameter | Species | effektive Dosis | Method |
|--|-----------|---------|-----------------|--------|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | Oral LD50 | Rat | 180 mg/kg | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | Oral LD50 | Rat | 490 mg/kg | |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | Oral LD50 | Rat | 120 mg/kg | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Oral LD50 | Rat | 457 mg/kg | |

| Chemical name | Parameters | Species | Effective dose | Method |
|--|-------------|---------|----------------|--------|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | Dermal LD50 | Rat | 1600 mg/kg | |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | Dermal LD50 | Rabbit | 200 mg/kg | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Dermal LD50 | Rabbit | 660 mg/kg | |

| Chemical name | Parameters | Species | Effective dose | Exposure time | Method |
|--|-----------------|---------|-----------------------|---------------|--------|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | Inhalation LC50 | Rat | 800 mg/m ³ | 4 h | |

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| Chemical name | Parameters | Species | Effective dose | Exposure time | Method |
|---|-----------------|---------|------------------------------|---------------|--------|
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | Inhalation LC50 | Rat | 0.34 mg/L | 4 h | |
| 5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | Inhalation LC50 | Rat | 171 - 2360 mg/m ³ | 4 h | |

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

| | |
|------------------------------------|--|
| Skin corrosion/irritation: | No information available. |
| Serious eye damage/eye irritation: | No information available. |
| Respiratory or skin sensitization: | May cause sensitization by skin contact. |
| Germ cell mutagenicity: | No information available. |
| Carcinogenicity: | No information available. |
| Reproductive toxicity: | No information available. |
| STOT - single exposure: | No information available. |
| STOT - repeated exposure: | No information available. |
| Aspiration hazard: | No information available. |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: The environmental impact of this product has not been fully investigated.

fish toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|--|-----------|---------------------|----------------|---------------|----------|
| Ammonium hydroxide 1336-21-6 | LC50 | Oncorhynchus mykiss | 0.89 mg/L | 96 h | |
| 2-Bromo-2-nitro-1,3-propanedi ol 52-51-7 | LC50 | Lepomis macrochirus | 11 mg/L | 96 h | OECD 203 |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | LC50 | | 2.15 mg/L | 96 h | |
| 3(2H)-Isothiazolone, 2-methyl- | LC50 | | 4.77 mg/L | 96 h | |

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| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|---|-----------|---------------------|----------------|---------------|----------|
| 2682-20-4 | | | | | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | LC50 | Oncorhynchus mykiss | 0.22 mg/L | 96 h | OECD 203 |

toxicity to crustacea:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|---|-----------|---------------|----------------|---------------|----------|
| Ammonium hydroxide 1336-21-6 | LC50 | Daphnia magna | 101 mg/L | 48 h | |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | EC50 | Daphnia magna | 1.04 mg/L | 48 h | OECD 202 |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | | 2.9 mg/L | 48 h | |
| 3(2H)-Isothiazolone, 2-methyl-2682-20-4 | LC50 | | 0.934 mg/L | 48 h | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | EC50 | Daphnia magna | 0.1 mg/L | 48 h | OECD 202 |

Algae Toxicity:

| Chemical name | Parameter | Species | Effective dose | Exposure time | Method |
|---|-----------|---------------------------------|----------------|---------------|----------|
| Ammonium hydroxide 1336-21-6 | EC50 | Chlorella vulgaris | 2700 mg/L | 18 d | |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | EC50 | Anabaena flos aqua | 0.068 mg/L | 72 h | OECD 201 |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | | 0.11 mg/L | 72 h | |
| 3(2H)-Isothiazolone, 2-methyl-2682-20-4 | EC50 | | 0.103 mg/L | 72 h | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | EC50 | Pseudokirchneriella subcapitata | 0.048 mg/L | 72 h | OECD 201 |

Bacteria toxicity:

| Chemical name | Parameters | Species | Effective dose | Exposure time | Method |
|---|------------|------------------|----------------|---------------|--------|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | EC50 | activated sludge | 43 mg/L | 3 h | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | EC50 | | 12.8 mg/L | 3 h | |
| 3(2H)-Isothiazolone, 2-methyl-2682-20-4 | EC50 | | 41 mg/L | 3 h | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with | EC50 | activated sludge | 7.92 mg/L | 3 h | |

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| Chemical name | Parameters | Species | Effective dose | Exposure time | Method |
|--|------------|---------|----------------|---------------|--------|
| 2-methyl-3(2H)-isothiazolone 55965-84-9 | | | | | |

12.2. Persistence and degradability

Persistence and degradability:

| Chemical name | degradation rate | test duration | Rapidly biodegradable | Remarks | Method |
|--|------------------|---------------|-----------------------|---------|----------|
| Ammonium hydroxide 1336-21-6 | | | Yes | | |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | 100 % | 28 d | Yes | | |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 100 % | 0.04 d | Yes | | OECD 307 |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | 100 % | 0.07 d | Yes | | |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | > 60 % | 28 d | Yes | | OECD 301 |

12.3. Bioaccumulative potential

Bioaccumulation:

| Chemical name | Partition coefficient | Bioconcentration factor (BCF) |
|--|-----------------------|-------------------------------|
| Ammonium hydroxide 1336-21-6 | | -0.64 |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | 0.38 | 3.16 |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 1.3 | 6.62 |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | | 3.16 |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | 0.69 | 3.16 |

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

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| Chemical name | PBT and vPvB assessment |
|---|---------------------------------|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | The substance is not PBT / vPvB |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | The substance is not PBT / vPvB |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | The substance is not PBT / vPvB |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties.

No information available.

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging:

Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV: 08 01 12 (waste paint and varnish other than those mentioned in 08 01 11)

SECTION 14: Transport information

14.1. UN number

ADR: Not regulated
RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.2 UN proper shipping name

ADR: Not regulated
RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.3. Transport hazard class(es)

ADR: Not regulated
RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.4. Packing group

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ADR: Not regulated
RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.5. Environmental hazards

ADR: Not regulated
RID: Not regulated
IMDG: Not regulated
IATA: Not regulated

14.6. Special precautions for user

ADR: Not regulated
Special Provisions: None
RID: Not regulated
Special Provisions: None
IMDG: Not regulated
Special Provisions: None
IATA: Not regulated
Special Provisions: None

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

No information available

SECTION 15: Regulatory information

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

European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

| Chemical name | Substance subject to authorization per REACH Annex XIV | Restricted substance per REACH Annex XVII |
|---|--|---|
| Ammonium hydroxide 1336-21-6 | | 75. |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | | 75. |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | | 75. |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | | 75. |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | | 3 |

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Persistent Organic Pollutants: Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

| Chemical name | Biocidal Products Regulation (EU) No 528/2012 (BPR) |
|---|--|
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | 13 - Working or cutting fluid preservatives 12 - Slimicides 11 - Preservatives for liquid-cooling and processing systems |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | 2 - Disinfectants and algicides not intended for direct application to humans or animals 4 - Food and feed area disinfectant 6 - Preservatives for products during storage 11 - Preservatives for liquid-cooling and processing systems 12 - Slimicides 13 - Working or cutting fluid preservatives |

volatile organic compounds (VOC) content:
acc. reg. 2010/75/EG: 0 %
acc. reg. 2004/42/EG (Decopaint): 0 g/L 0 %

648/2004/ EU (DetVo):

National regulations:

Denmark:

| Chemical name | Denmark - MAL |
|---|--|
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | 50000 m3/10 g substance MAL factor 2500 m3/10 g substance MAL factor [] |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 0 m3/10 g substance MAL factor >=1.0 % by weight [3] |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | 0 m3/10 g substance MAL factor >=0.03 - 1.0 % by weight [3] >=0.003 - 1.0 % by weight [3] >=1.0 % by weight [6] |

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

| Chemical name | WGK Classification (AwSV) | ID number |
|---|---------------------------|-----------|
| Ammonium hydroxide 1336-21-6 | 2 | 211 |
| 2-Bromo-2-nitro-1,3-propanediol 52-51-7 | 2 | 5204 |
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | 2 | 5141 |
| 3(2H)-Isothiazolone, 2-methyl- 2682-20-4 | 3 | 2960 |
| 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9 | 3 | 2959 |

France:

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Occupational Illnesses (R-463-3, France):

| Chemical name | French RG number |
|---|------------------|
| 1,2-Benzisothiazol-3(2H)-one 2634-33-5 | RG 65 |

RG 65 - Allergic eczema

Netherlands:

Water contaminating class (Netherlands): B (4)

Austria:

Flammable Liquids Regulations, VbF: Not regulated

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 0 %

International Inventories:

| | |
|---------------|-----------------|
| TSCA | Does not comply |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH071 - Corrosive to the respiratory tract

H301 - Toxic if swallowed

H302 - Harmful if swallowed

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H310 - Fatal in contact with skin
H311 - Toxic in contact with skin
H312 - Harmful 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
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road
(Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)
BCF: Bio-Concentration Factor
BOD(5): Biochemical oxygen demand (within 5 days)
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic, toxic for Reproduction
DIN: German Standards Institute / German industrial norm
DNEL: Derived No Effect Level
DOC: Dissolved organic carbon
EAK/ AVV: European waste catalogue/ waste directory-regulation
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IC50: Inhibition Concentration 50%
IMDG: International Maritime Dangerous Goods Code
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
MAK: Treshold limit values Germany
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OECD: Organization for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Ceiling: Maximum limit value

* Skin designation

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapor | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitization | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

Revision date: 24-Jun-2021

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:

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

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any process, unless specified in the text.

End of Safety Data Sheet