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> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Vario-Sol BDM 310 ml Art.: 9095770

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Insulating material
Fire protection
Uses advised against:
No information available at present.

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

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

**1.4 Emergency telephone number** Emergency information services / official advisory body:

**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

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

| 2.1 Classification of | the substance or mixture                                    |   |  |  |  |  |  |
|-----------------------|---|---|--|--|--|--|--|
| Classification accore | Classification according to Regulation (EC) 1272/2008 (CLP) |   |  |  |  |  |  |
| Hazard class          | Hazard category   | Hazard statement                                      |  |  |  |  |  |
| Skin Sens.            | 1   | H317-May cause an allergic skin reaction.             |  |  |  |  |  |
| Repr.                 | 2   | H361d-Suspected of damaging the unborn child.         |  |  |  |  |  |
| Aquatic Chronic       | 2   | H411-Toxic to aquatic life with long lasting effects. |  |  |  |  |  |



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#### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



H317-May cause an allergic skin reaction. H361d-Suspected of damaging the unborn child. H411-Toxic to aquatic life with long lasting effects.

P201-Obtain special instructions before use. P261-Avoid breathing vapours. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection. P308+P313-IF exposed or concerned: Get medical advice / attention.

1,2-benzisothiazol-3(2H)-one Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 2-Octyl-2H-isothiazol-3-one Hexaboron dizinc undecaoxide

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

| 3.1 Substances  |                             |
|---|-----------------------------|
| n.a.  |                             |
| 3.2 Mixtures  |                             |
| Hexaboron dizinc undecaoxide                          |                             |
| Registration number (REACH)                           |                             |
| Index   |                             |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 235-804-2                   |
| CAS   | 12767-90-7 / 138265-88-0    |
| content %   | 10-<25                      |
| Classification according to Regulation (EC) 1272/2008 | Repr. 2, H361d              |
| (CLP), M-factors                                      | Aquatic Acute 1, H400 (M=1) |
|   | Aquatic Chronic 2, H411     |



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| Ammonia   | Substance for which an EU exposure limit |
|---|--|
|   | value applies.                           |
| Registration number (REACH)                           |  |
| Index   | 007-001-01-2                             |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 215-647-6                                |
| CAS   | 1336-21-6                                |
| content %   | 0,01-<0,5                                |
| Classification according to Regulation (EC) 1272/2008 | Skin Corr. 1B, H314                      |
| (CLP), M-factors                                      | Eye Dam. 1, H318                         |
|   | Aquatic Acute 1, H400 (M=1)              |
|   | Aquatic Chronic 2, H411                  |
| Specific Concentration Limits and ATE                 | STOT SE 3, H335: >=5 %                   |

| 1,2-benzisothiazol-3(2H)-one                          |                              |
|---|------------------------------|
| Registration number (REACH)                           |                              |
| Index   | 613-088-00-6                 |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 220-120-9                    |
| CAS   | 2634-33-5                    |
| content %   | 0,005-<0,05                  |
| Classification according to Regulation (EC) 1272/2008 | Acute Tox. 4, H302           |
| (CLP), M-factors                                      | Skin Irrit. 2, H315          |
|   | Eye Dam. 1, H318             |
|   | Skin Sens. 1, H317           |
|   | Aquatic Acute 1, H400 (M=10) |
| Specific Concentration Limits and ATE                 | Skin Sens. 1, H317: >=0,05 % |

| 2-Octyl-2H-isothiazol-3-one                           |   |
|---|---|
| Registration number (REACH)                           |   |
| Index   | 613-112-00-5                            |
| EINECS, ELINCS, NLP, REACH-IT List-No.                | 247-761-7                               |
| CAS   | 26530-20-1                              |
| content %   | 0,0015-<0,05                            |
| Classification according to Regulation (EC) 1272/2008 | EUH071                                  |
| (CLP), M-factors                                      | Acute Tox. 2, H330                      |
|   | Acute Tox. 3, H301                      |
|   | Acute Tox. 3, H311                      |
|   | Skin Corr. 1, H314                      |
|   | Eye Dam. 1, H318                        |
|   | Skin Sens. 1A, H317                     |
|   | Aquatic Acute 1, H400 (M=100)           |
|   | Aquatic Chronic 1, H410 (M=100)         |
| Specific Concentration Limits and ATE                 | Skin Sens. 1A, H317: >=0,0015 %         |
|   | ATE (oral): 125 mg/kg                   |
|   | ATE (dermal): 311 mg/kg                 |
|   | ATE (as inhalation, Mist): 0,27 mg/l/4h |

| Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one<br>and 2-methyl-2H-isothiazol-3-one (3:1) |              |
|--|--------------|
| Registration number (REACH)  |              |
| Index  | 613-167-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No.   |              |



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| CAS   | 55965-84-9                      |
|---|---------------------------------|
| content %   | 0,0001-<0,0015                  |
| Classification according to Regulation (EC) 1272/2008 | EUH071                          |
| (CLP), M-factors                                      | Acute Tox. 2, H310              |
|   | Acute Tox. 2, H330              |
|   | Acute Tox. 3, H301              |
|   | Skin Corr. 1C, H314             |
|   | Eye Dam. 1, H318                |
|   | Skin Sens. 1A, H317             |
|   | Aquatic Acute 1, H400 (M=100)   |
|   | Aquatic Chronic 1, H410 (M=100) |
| Specific Concentration Limits and ATE                 | 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. 1A, H317: >=0,0015 % |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. eyes, reddened

reddening of the skin

Allergic reaction

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



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# 5.1 Extinguishing media

Suitable extinguishing media Water jet spray/foam/CO2/dry extinguisher Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Metal oxides Toxic gases 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Allow product to harden.

Pick up mechanically and dispose of according to Section 13.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

# **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

# 7.1 Precautions for safe handling

7.1.1 General recommendations



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Ensure good ventilation. Avoid contact with eyes or skin. Pregnant women should avoid contact with this product. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions. 7.1.2 Notes on general hygiene measures at the workplace General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. 7.2 Conditions for safe storage, including any incompatibilities Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Protect from direct sunlight. Store at room temperature. Store in a dry place. 7.3 Specific end use(s) No information available at present.

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

#### **8.1 Control parameters**

| <sup>(GB)</sup> Chemical Name | Ammonia    |   | Content<br>%:0,01-<0,5 |  |  |
|-------------------------------|------------|---|------------------------|--|--|
| WEL-TWA: NH3 25 ppm           | (18 mg/m3) | WEL-STEL: NH3 35 ppm (25 mg/m3)                       |                        |  |  |
| (WEL), 20 ppm (14 mg/m3)      | (EU)       | (WEL), 50 ppm (36 mg/m3) (EU)                         |                        |  |  |
| Monitoring procedures:        | -          | Draeger - Ammonia 0,25/a (81 01 711)                  |                        |  |  |
|                               | -          | Draeger - Ammonia 0,5%/a (CH 31 901)                  |                        |  |  |
|                               | -          | Draeger - Ammonia 2/a (67 33 231)                     |                        |  |  |
|                               | -          | Draeger - Ammonia 5/a (CH 20 501)                     |                        |  |  |
|                               | -          | Draeger - Ammonia 5/b (81 01 941)                     |                        |  |  |
|                               | -          | Compur - KITA-105 SA (548 642)                        |                        |  |  |
|                               | -          | Compur - KITA-105 SB (548 659)                        |                        |  |  |
|                               | -          | Compur - KITA-105 SC (548 667)                        |                        |  |  |
|                               | -          | Compur - KITA-105 SD (548 675)                        |                        |  |  |
|                               | -          | Compur - KITA-105 SH (548 683)                        |                        |  |  |
|                               | -          | Compur - KITA-105 SM (548 691)                        |                        |  |  |
|                               | -          | NIOSH 6015 (Ammonia) - 1990                           |                        |  |  |
|                               | -          | NIOSH 6016 (AMMONIA by IC) - 2016                     |                        |  |  |
|                               | -          | OSHA ID-164 (Ammonia in Workplace Atmospheres) - 1988 |                        |  |  |
|                               |            | OSHA ID-188 (Ammonia in workplace atmosphe            | eres – solid           |  |  |
|                               | -          | sorbent) - 2002                                       |                        |  |  |
| BMGV:                         |            | Other information:                                    |                        |  |  |
| <sup>(B)</sup> Chemical Name  | Talc       |   | Content %:             |  |  |

| Chemical Name          | Talc    |           |                   |   | Content %: |
|------------------------|---------|-----------|-------------------|---|------------|
| WEL-TWA: 1 mg/m3 (res. | . dust) | WEL-STEL: |                   |   |            |
| Monitoring procedures: | -       |           |                   |   |            |
| BMGV:                  |         |           | Other information | : |            |



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| Chemical Name                | Glass, oxide, o | chemicals      |              |                    |   | Content %: |
|------------------------------|-----------------|----------------|--------------|--------------------|---|------------|
| WEL-TWA: 2 fibres/ml, 5      | mg/m3 (1:d      | WEL-STEL:      |              |                    |   |            |
| $>= 3:1, < 6\mu m)$ (MMMF)   |                 |                |              |                    |   |            |
| Monitoring procedures:       | -               |                |              |                    |   |            |
| BMGV:                        |                 |                |              | Other information: | : |            |
| <sup>(B)</sup> Chemical Name | Calcium carbo   | onate          |              |                    |   | Content %: |
| WEL-TWA: 4 mg/m3 (res        | pirable dust),  | WEL-STEL:      |              |                    |   |            |
| 10 mg/m3 (total inhalable du | ist)            |                |              |                    |   |            |
| Monitoring procedures:       | -               |                |              |                    |   |            |
| BMGV:                        |                 |                |              | Other information: | : |            |
| <sup>(B)</sup> Chemical Name | Vinyl acetate   |                |              |                    |   | Content %: |
| WEL-TWA: 5 ppm (17,6 r       | ng/m3) (WEL-    | WEL-STEL:      | 10 ppm (3    | 35,2 mg/m3)        |   |            |
| TWA, EU)                     |                 | (WEL-STEL,     | EU)          |                    |   |            |
| Monitoring procedures:       | - (             | Compur - KITA- | -237 S (549  | 9 863)             |   |            |
|                              | - (             | OSHA 51 (Viny  | l Acetate) - | - 1985             |   |            |
| BMGV:                        |                 |                |              | Other information: | : |            |
| Chemical Name                | general dust li | mit            |              |                    |   | Content %: |
| WEL-TWA: 10 mg/m3 (in        | hal. dust), 4   | WEL-STEL:      |              |                    |   |            |
| mg/m3 (respir. dust)         |                 |                |              |                    |   |            |
| Monitoring procedures:       | -               |                |              |                    |   |            |
| BMGV:                        |                 |                |              | Other information: | : |            |

| Ammonia             |  |                                 |                |            |                                 |      |
|---------------------|--|---------------------------------|----------------|------------|---------------------------------|------|
| Area of application | Exposure route /<br>Environmental<br>compartment | Effect on health                | Descript<br>or | Value      | Unit                            | Note |
|                     | Environment -<br>freshwater                      |                                 | PNEC           | 0,001<br>1 | mg/l                            |      |
|                     | Environment - marine                             |                                 | PNEC           | 0,001<br>1 | mg/l                            |      |
|                     | Environment -<br>periodic release                |                                 | PNEC           | 0,006<br>8 | mg/l                            |      |
| Consumer            | Human - inhalation                               | Long term, local effects        | DNEL           | 2,8        | mg/m3                           |      |
| Consumer            | Human - dermal                                   | Short term, local effects       | DNEL           | 68         | mg/kg<br>body<br>weight/d<br>ay |      |
| Consumer            | Human - dermal                                   | Short term,<br>systemic effects | DNEL           | 68         | mg/kg<br>body<br>weight/d<br>ay |      |
| Consumer            | Human - inhalation                               | Short term,<br>systemic effects | DNEL           | 23,8       | mg/m3                           |      |
| Consumer            | Human - inhalation                               | Long term,<br>systemic effects  | DNEL           | 23,8       | mg/m3                           |      |



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| Consumer            | Human - oral       | Short term,<br>systemic effects | DNEL | 6,8  | mg/kg<br>body<br>weight/d<br>ay |
|---------------------|--------------------|---------------------------------|------|------|---------------------------------|
| Consumer            | Human - oral       | Long term,<br>systemic effects  | DNEL | 6,8  | mg/kg<br>body<br>weight/d<br>ay |
| Workers / employees | Human - dermal     | Short term,<br>systemic effects | DNEL | 6,8  | mg/kg<br>body<br>weight/d<br>ay |
| Workers / employees | Human - dermal     | Long term,<br>systemic effects  | DNEL | 6,8  | mg/kg<br>body<br>weight/d<br>ay |
| Workers / employees | Human - inhalation | Short term,<br>systemic effects | DNEL | 47,6 | mg/m3                           |
| Workers / employees | Human - inhalation | Short term, local effects       | DNEL | 36   | mg/m3                           |
| Workers / employees | Human - inhalation | Long term,<br>systemic effects  | DNEL | 47,6 | mg/m3                           |
| Workers / employees | Human - inhalation | Long term, local effects        | DNEL | 14   | mg/m3                           |

| Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |                        |                   |          |       |       |      |  |  |  |
|---|------------------------|-------------------|----------|-------|-------|------|--|--|--|
| Area of application   | Exposure route /       | Effect on health  | Descript | Value | Unit  | Note |  |  |  |
|   | Environmental          |                   | or       |       |       |      |  |  |  |
|   | compartment            |                   |          |       |       |      |  |  |  |
|   | Environment -          |                   | PNEC     | 0,003 | mg/l  |      |  |  |  |
|   | freshwater             |                   |          | 39    |       |      |  |  |  |
|   | Environment - marine   |                   | PNEC     | 0,003 | mg/l  |      |  |  |  |
|   |                        |                   |          | 39    |       |      |  |  |  |
|   | Environment -          |                   | PNEC     | 0,027 | mg/kg |      |  |  |  |
|   | sediment, freshwater   |                   |          |       | dw    |      |  |  |  |
|   | Environment -          |                   | PNEC     | 0,027 | mg/kg |      |  |  |  |
|   | sediment, marine       |                   |          |       | dw    |      |  |  |  |
|   | Environment - soil     |                   | PNEC     | 0,01  | mg/kg |      |  |  |  |
|   |                        |                   |          |       | dw    |      |  |  |  |
|   | Environment -          |                   | PNEC     | 0,23  | mg/l  |      |  |  |  |
|   | sewage treatment       |                   |          |       |       |      |  |  |  |
|   | plant                  |                   |          |       |       |      |  |  |  |
|   | Environment - water,   |                   | PNEC     | 0,003 | mg/l  |      |  |  |  |
|   | sporadic               |                   |          | 39    |       |      |  |  |  |
|   | (intermittent) release |                   |          |       |       |      |  |  |  |
| Consumer  | Human - inhalation     | Long term, local  | DNEL     | 0,02  | mg/m3 |      |  |  |  |
|   |                        | effects           |          |       |       |      |  |  |  |
| Consumer  | Human - inhalation     | Short term, local | DNEL     | 0,04  | mg/m3 |      |  |  |  |
|   |                        | effects           |          |       |       |      |  |  |  |



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| Consumer            | Human - oral       | Long term,<br>systemic effects | DNEL | 0,09 | mg/kg<br>bw/d |  |
|---------------------|--------------------|--------------------------------|------|------|---------------|--|
| Workers / employees | Human - inhalation | Long term, local effects       | DNEL | 0,02 | mg/m3         |  |
| Workers / employees | Human - inhalation | Short term, local effects      | DNEL | 0,04 | mg/m3         |  |

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

# 8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective PVC gloves (EN ISO 374).



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Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: > 60 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

#### Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

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

| 9.1 Information on basic physical and chemical prop       | erties   |
|---|--|
| Physical state:   | Paste, solid.  |
| Colour:   | Grey   |
| Odour:  | Slightly   |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | >100 °C  |
| Flammability:   | Flammable  |
| Lower explosion limit:                                    | Does not apply to solids.                            |
| Upper explosion limit:                                    | Does not apply to solids.                            |
| Flash point:  | >93 °C   |
| Auto-ignition temperature:                                | Does not apply to solids.                            |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | 7-8  |
| Kinematic viscosity:                                      | Does not apply to solids.                            |



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| Solubility:<br>Partition coefficient n-octanol/water (log value): | There is no information available on this parameter.<br>Does not apply to mixtures. |
|---|---|
| Vapour pressure:  | There is no information available on this parameter.                                |
| Density and/or relative density:                                  | $\sim$ 1,42 g/cm3 (relative density )   |
| Relative vapour density:  | Does not apply to solids.   |
| 9.2 Other information   |   |
| Explosives:   | Product is not explosive.   |
| Oxidizing solids:   | No  |
| Solvents content:   | <2 %  |
|   |   |

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

**10.1 Reactivity** The product has not been tested. **10.2** Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions No dangerous reactions are known. **10.4 Conditions to avoid** See also section 7. Heating, open flame, ignition sources **10.5 Incompatible materials** See also section 7. Oxidizing agents Reducing agent **10.6 Hazardous decomposition products** See also section 5.2 No decomposition when used as directed.

### **SECTION 11: Toxicological information**

| 11.1. III01 IIIau011 011 IIa | Latu Classes  | as utiliteu    | in Kegulai  |                   | 212/2008    |        |
|------------------------------|---------------|----------------|-------------|-------------------|-------------|--------|
| Possibly more information    | 1 on health ( | effects, see S | Section 2.1 | (classification). |             |        |
| Vario-Sol BDM 310 ml         |               |                |             |                   |             |        |
| Art.: 9095770                |               |                |             |                   |             |        |
| Toxicity / effect            | Endpoi        | Value          | Unit        | Organism          | Test method | Notes  |
|                              | nt            |                |             |                   |             |        |
| Acute toxicity, by oral      |               |                |             |                   |             | n.d.a. |
| route:                       |               |                |             |                   |             |        |
| Acute toxicity, by           |               |                |             |                   |             | n.d.a. |
| dermal route:                |               |                |             |                   |             |        |
| Acute toxicity, by           |               |                |             |                   |             | n.d.a. |
| inhalation:                  |               |                |             |                   |             |        |
| Skin corrosion/irritation:   |               |                |             |                   |             | n.d.a. |
| Serious eye                  |               |                |             |                   |             | n.d.a. |
| damage/irritation:           |               |                |             |                   |             |        |
| Respiratory or skin          |               |                |             |                   |             | n.d.a. |
| sensitisation:               |               |                |             |                   |             |        |
| Germ cell mutagenicity:      |               |                |             |                   |             | n.d.a. |

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



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| Carcinogenicity:       |  |  | n.d.a. |
|------------------------|--|--|--------|
| Reproductive toxicity: |  |  | n.d.a. |
| Specific target organ  |  |  | n.d.a. |
| toxicity - single      |  |  |        |
| exposure (STOT-SE):    |  |  |        |
| Specific target organ  |  |  | n.d.a. |
| toxicity - repeated    |  |  |        |
| exposure (STOT-RE):    |  |  |        |
| Aspiration hazard:     |  |  | n.d.a. |
| Symptoms:              |  |  | n.d.a. |

| Ammonia                            |              |       |       |                |  |  |
|------------------------------------|--------------|-------|-------|----------------|--|--|
| Toxicity / effect                  | Endpoi<br>nt | Value | Unit  | Organism       | Test method  | Notes                                    |
| Acute toxicity, by oral route:     | LD50         | 350   | mg/kg | Rat            |  |  |
| Acute toxicity, by oral route:     | LDLo         | 550   | mg/kg | Cat            |  |  |
| Acute toxicity, by oral route:     | LDLo         | 43    | mg/kg | Human<br>being |  |  |
| Acute toxicity, by inhalation:     | LCLo         | 5000  | ppm   | Human<br>being |  |  |
| Skin corrosion/irritation:         |              |       |       | Rabbit         | OECD 404 (Acute<br>Dermal<br>Irritation/Corrosio<br>n)   | Corrosive                                |
| Serious eye<br>damage/irritation:  |              |       |       | Rabbit         |  | Risk of<br>serious<br>damage to<br>eyes. |
| Respiratory or skin sensitisation: |              |       |       | Guinea pig     |  | Not<br>sensitizising                     |
| Germ cell mutagenicity:            |              |       |       |                | OECD 471<br>(Bacterial Reverse<br>Mutation Test)   | Negative                                 |
| Carcinogenicity:                   |              |       |       | Rat            | OECD 453<br>(Combined<br>Chronic<br>Toxicity/Carcinoge<br>nicity Studies)  | Negative                                 |
| Reproductive toxicity:             | NOAEL        | 408   | mg/kg | Rat            | OECD 422<br>(Combined<br>Repeated Dose<br>Tox. Study with<br>the<br>Reproduction/Dev<br>elopm. Tox.<br>Screening Test) |  |



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| Symptoms: |  | asthmatic    |
|-----------|--|--------------|
|           |  | symptoms,    |
|           |  | respiratory  |
|           |  | distress,    |
|           |  | unconsciousn |
|           |  | ess, burning |
|           |  | of the       |
|           |  | membranes    |
|           |  | of the nose  |
|           |  | and throat,  |
|           |  | vomiting,    |
|           |  | cornea       |
|           |  | opacity,     |
|           |  | coughing,    |
|           |  | cramps,      |
|           |  | circulatory  |
|           |  | collapse,    |
|           |  | shock,       |
|           |  | nausea       |

| 1,2-benzisothiazol-3(2H)   | 1,2-benzisothiazol-3(2H)-one |       |       |            |             |                |  |  |
|----------------------------|------------------------------|-------|-------|------------|-------------|----------------|--|--|
| Toxicity / effect          | Endpoi                       | Value | Unit  | Organism   | Test method | Notes          |  |  |
|                            | nt                           |       |       |            |             |                |  |  |
| Acute toxicity, by oral    | LD50                         | 375   | mg/kg | Rat        |             |                |  |  |
| route:                     |                              |       |       |            |             |                |  |  |
| Acute toxicity, by         | LD50                         | 4115  | mg/kg | Rat        |             |                |  |  |
| dermal route:              |                              |       |       |            |             |                |  |  |
| Skin corrosion/irritation: |                              |       |       |            |             | Skin Irrit. 2  |  |  |
| Serious eye                |                              |       |       |            |             | Eye Dam. 1     |  |  |
| damage/irritation:         |                              |       |       |            |             |                |  |  |
| Respiratory or skin        |                              |       |       | Guinea pig |             | Yes (skin      |  |  |
| sensitisation:             |                              |       |       |            |             | contact)       |  |  |
| Germ cell mutagenicity:    |                              |       |       |            |             | Negative       |  |  |
| Symptoms:                  |                              |       |       |            |             | vomiting,      |  |  |
|                            |                              |       |       |            |             | headaches,     |  |  |
|                            |                              |       |       |            |             | gastrointestin |  |  |
|                            |                              |       |       |            |             | al             |  |  |
|                            |                              |       |       |            |             | disturbances,  |  |  |
|                            |                              |       |       |            |             | nausea         |  |  |

| 2-Octyl-2H-isothiazol-3-one |        |       |         |          |             |            |  |  |
|-----------------------------|--------|-------|---------|----------|-------------|------------|--|--|
| Toxicity / effect           | Endpoi | Value | Unit    | Organism | Test method | Notes      |  |  |
|                             | nt     |       |         |          |             |            |  |  |
| Acute toxicity, by oral     | ATE    | 125   | mg/kg   |          |             |            |  |  |
| route:                      |        |       |         |          |             |            |  |  |
| Acute toxicity, by          | ATE    | 311   | mg/kg   |          |             |            |  |  |
| dermal route:               |        |       |         |          |             |            |  |  |
| Acute toxicity, by          | ATE    | 0,27  | mg/l/4h |          |             | Dust, Mist |  |  |
| inhalation:                 |        |       |         |          |             |            |  |  |
| Symptoms:                   |        |       |         |          |             | ataxia,    |  |  |
|                             |        |       |         |          |             | diarrhoea  |  |  |



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| Reaction mass of 5-chlor<br>Toxicity / effect | Endpoi | Value | Unit  | Organism   | Test method                      | Notes  |
|---|--------|-------|-------|------------|----------------------------------|--|
| ·   | nt     |       |       | U          |                                  |  |
| Acute toxicity, by oral route:                | LD50   | 53    | mg/kg | Rat        |                                  |  |
| Acute toxicity, by dermal route:              | LD50   | 660   | mg/kg | Rabbit     |                                  |  |
| Skin corrosion/irritation:                    |        |       |       | Rabbit     |                                  | Corrosive  |
| Serious eye<br>damage/irritation:             |        |       |       | Rabbit     |                                  | Corrosive  |
| Respiratory or skin sensitisation:            |        |       |       | Guinea pig | OECD 406 (Skin<br>Sensitisation) | Yes (skin contact)   |
| Aspiration hazard:                            |        |       |       |            | ,                                | No   |
| Symptoms:                                     |        |       |       |            |                                  | diarrhoea,<br>mucous<br>membrane<br>irritation,<br>watering<br>eyes, eyes,<br>reddened |

| Talc                       |        |       |       |          |                     |               |
|----------------------------|--------|-------|-------|----------|---------------------|---------------|
| Toxicity / effect          | Endpoi | Value | Unit  | Organism | Test method         | Notes         |
|                            | nt     |       |       |          |                     |               |
| Acute toxicity, by oral    | LD50   | >5000 | mg/kg | Rat      |                     |               |
| route:                     |        |       |       |          |                     |               |
| Acute toxicity, by         | LD50   | >2000 | mg/kg | Rat      |                     |               |
| dermal route:              |        |       |       |          |                     |               |
| Skin corrosion/irritation: |        |       |       | Rabbit   | OECD 404 (Acute     | Not irritant  |
|                            |        |       |       |          | Dermal              |               |
|                            |        |       |       |          | Irritation/Corrosio |               |
|                            |        |       |       |          | n)                  |               |
| Skin corrosion/irritation: |        |       |       |          |                     | Not irritant  |
| Respiratory or skin        |        |       |       |          |                     | Not           |
| sensitisation:             |        |       |       |          |                     | sensitizising |
| Germ cell mutagenicity:    |        |       |       |          | OECD 471            | Negative      |
|                            |        |       |       |          | (Bacterial Reverse  |               |
|                            |        |       |       |          | Mutation Test)      |               |
| Carcinogenicity:           |        |       |       |          |                     | Negative      |
| Reproductive toxicity:     |        |       |       | Rat      |                     | Negative      |
| Symptoms:                  |        |       |       |          |                     | mucous        |
|                            |        |       |       |          |                     | membrane      |
|                            |        |       |       |          |                     | irritation    |

| Glass, oxide, chemicals |        |       |      |          |             |                    |
|-------------------------|--------|-------|------|----------|-------------|--------------------|
| Toxicity / effect       | Endpoi | Value | Unit | Organism | Test method | Notes              |
|                         | nt     |       |      |          |             |                    |
| Symptoms:               |        |       |      |          |             | mucous<br>membrane |
|                         |        |       |      |          |             | irritation         |



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| Calcium carbonate                           |              |        |         |          |   |  |
|---|--------------|--------|---------|----------|---|--|
| Toxicity / effect                           | Endpoi<br>nt | Value  | Unit    | Organism | Test method   | Notes  |
| Acute toxicity, by oral route:              | LD50         | >2000  | mg/kg   | Rat      | OECD 420 (Acute<br>Oral toxicity -<br>Fixe Dose<br>Procedure) |  |
| Acute toxicity, by oral route:              | LD50         | > 5000 | mg/kg   | Rat      |   |  |
| Acute toxicity, by dermal route:            | LD50         | >2000  | mg/kg   | Rat      | OECD 402 (Acute<br>Dermal Toxicity)                           |  |
| Acute toxicity, by inhalation:              | LC50         | >3     | mg/l/4h | Rat      | OECD 403 (Acute<br>Inhalation<br>Toxicity)                    |  |
| Skin corrosion/irritation:                  |              |        |         | Rabbit   | OECD 404 (Acute<br>Dermal<br>Irritation/Corrosio<br>n)        | Not irritant   |
| Serious eye<br>damage/irritation:           |              |        |         | Rabbit   | OECD 405 (Acute<br>Eye<br>Irritation/Corrosio<br>n)           | Not irritant,<br>Mechanical<br>irritation<br>possible. |
| Respiratory or skin sensitisation:          |              |        |         |          |   | No (skin<br>contact)                                   |
| Germ cell mutagenicity:<br>Carcinogenicity: |              |        |         |          | in vitro  | Negative<br>Negative,<br>administered<br>as Ca-lactate |
| Reproductive toxicity:                      |              |        |         |          |   | Negative,<br>administered<br>as Ca-<br>carbonate       |

| Vinyl acetate                    |        |       |         |          |             |   |
|----------------------------------|--------|-------|---------|----------|-------------|---|
| Toxicity / effect                | Endpoi | Value | Unit    | Organism | Test method | Notes   |
|                                  | nt     |       |         |          |             |   |
| Acute toxicity, by oral route:   | LD50   | 2920  | mg/kg   | Rat      |             |   |
| Acute toxicity, by dermal route: | LD50   | 2335  | mg/kg   | Rabbit   |             |   |
| Acute toxicity, by inhalation:   | LC50   | 15,8  | mg/l/4h | Rat      |             |   |
| Symptoms:                        |        |       |         |          |             | respiratory<br>distress,<br>drying of the<br>skin.,<br>blisters,<br>circulatory<br>collapse |

11.2. Information on other hazards



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| Vario-Sol BDM 310 ml<br>Art.: 9095770 | l            |       |      |          |             |   |
|---------------------------------------|--------------|-------|------|----------|-------------|---|
| Toxicity / effect                     | Endpoi<br>nt | Value | Unit | Organism | Test method | Notes   |
| Endocrine disrupting properties:      |              |       |      |          |             | Does not<br>apply to<br>mixtures.   |
| Other information:                    |              |       |      |          |             | No other<br>relevant<br>information<br>available on<br>adverse<br>effects on<br>health. |

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

| Vario-Sol BDM 31   |          |      | ,     |      | <u> </u> | ,           |              |
|--------------------|----------|------|-------|------|----------|-------------|--------------|
| Art.: 9095770      |          |      |       |      |          |             |              |
| Toxicity / effect  | Endpoint | Time | Value | Unit | Organism | Test method | Notes        |
| 12.1. Toxicity to  |          |      |       |      |          |             | n.d.a.       |
| fish:              |          |      |       |      |          |             |              |
| 12.1. Toxicity to  |          |      |       |      |          |             | n.d.a.       |
| daphnia:           |          |      |       |      |          |             |              |
| 12.1. Toxicity to  |          |      |       |      |          |             | n.d.a.       |
| algae:             |          |      |       |      |          |             |              |
| 12.2. Persistence  |          |      |       |      |          |             | n.d.a.       |
| and degradability: |          |      |       |      |          |             |              |
| 12.3.              |          |      |       |      |          |             | n.d.a.       |
| Bioaccumulative    |          |      |       |      |          |             |              |
| potential:         |          |      |       |      |          |             |              |
| 12.4. Mobility in  |          |      |       |      |          |             | n.d.a.       |
| soil:              |          |      |       |      |          |             |              |
| 12.5. Results of   |          |      |       |      |          |             | n.d.a.       |
| PBT and vPvB       |          |      |       |      |          |             |              |
| assessment         |          |      |       |      |          |             |              |
| 12.6. Endocrine    |          |      |       |      |          |             | Does not     |
| disrupting         |          |      |       |      |          |             | apply to     |
| properties:        |          |      |       |      |          |             | mixtures.    |
| 12.7. Other        |          |      |       |      |          |             | No           |
| adverse effects:   |          |      |       |      |          |             | information  |
|                    |          |      |       |      |          |             | available on |
|                    |          |      |       |      |          |             | other        |
|                    |          |      |       |      |          |             | adverse      |
|                    |          |      |       |      |          |             | effects on   |
|                    |          |      |       |      |          |             | the          |
|                    |          |      |       |      |          |             | environment. |



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| Ammonia                       |          |      |       |      |                          |                |              |
|-------------------------------|----------|------|-------|------|--------------------------|----------------|--------------|
| Toxicity / effect             | Endpoint | Time | Value | Unit | Organism                 | Test method    | Notes        |
| 12.1. Toxicity to             | NOEC/NO  | 21d  | 0,42  | mg/l | Daphnia                  |                |              |
| daphnia:                      | EL       |      |       | -    | magna                    |                |              |
| 12.1. Toxicity to             | LC50     | 96h  | 0,16- | mg/l | Oncorhynchus             | OECD 203       |              |
| fish:                         |          |      | 1,1   |      | mykiss                   | (Fish, Acute   |              |
|                               |          |      |       |      |                          | Toxicity Test) |              |
| 12.1. Toxicity to             | EC50     | 48h  | 24-   | mg/l | Daphnia                  | OECD 202       |              |
| daphnia:                      |          |      | 25,4  |      | magna                    | (Daphnia sp.   |              |
|                               |          |      |       |      |                          | Acute          |              |
|                               |          |      |       |      |                          | Immobilisatio  |              |
|                               |          |      |       |      |                          | n Test)        |              |
| 12.1. Toxicity to             | NOEC/NO  | 72h  | >1000 | mg/l | Skeletonema              | ISO 10253      |              |
| algae:                        | EL       |      |       |      | costatum                 |                |              |
| 12.1. Toxicity to             | NOEC/NO  | 30d  | <0,04 | mg/l | Ictalurus                | OECD 215       |              |
| fish:                         | EL       |      | 8     |      | punctatus                | (Fish,         |              |
|                               |          |      |       |      |                          | Juvenile       |              |
|                               |          |      |       |      |                          | Growth Test)   |              |
| 12.1. Toxicity to             | LC50     | 96h  | 8,2   | mg/l | Pimephales               |                |              |
| fish:                         |          | 0.51 | 0.50  |      | promelas                 |                |              |
| 12.1. Toxicity to             | LC50     | 96h  | 0,53  | mg/l | Oncorhynchus             |                | Anhydrous    |
| fish:                         | <b>E</b> | 4.01 | 0.66  | /1   | mykiss                   |                | substance    |
| 12.1. Toxicity to             | EC50     | 48h  | 0,66  | mg/l | Daphnia pulex            |                |              |
| daphnia:                      | E050     | 4.01 | 1.1.0 | /1   | D 1 '                    |                | A 1 1        |
| 12.1. Toxicity to             | EC50     | 48h  | 1,16  | mg/l | Daphnia                  |                | Anhydrous    |
| daphnia:<br>12.1. Toxicity to | EC50     | 72h  | >1000 |      | pulicaria<br>Skeletonema | ISO 10253      | substance    |
|                               | EC30     | /20  | >1000 |      |                          | 150 10255      |              |
| algae:<br>12.2. Persistence   |          |      |       |      | costatum                 |                | Readily      |
| and degradability:            |          |      |       |      |                          |                | biodegradabl |
| and degradability.            |          |      |       |      |                          |                | e            |
| 12.3.                         | Log Pow  |      | -1,14 |      |                          | Regulation     | Not to be    |
| Bioaccumulative               | Log I Ow |      | -1,14 |      |                          | (EC)           | expected     |
| potential:                    |          |      |       |      |                          | 440/2008 A.8   | expected     |
| potentiai.                    |          |      |       |      |                          | (PARTITION     |              |
|                               |          |      |       |      |                          | COEFFICIEN     |              |
|                               |          |      |       |      |                          | T)             |              |
| 12.5. Results of              |          |      |       |      |                          | - /            | No PBT       |
| PBT and vPvB                  |          |      |       |      |                          |                | substance,   |
| assessment                    |          |      |       |      |                          |                | No vPvB      |
|                               |          |      |       |      |                          |                | substance    |
| Toxicity to                   | EC50     | 5min | 1,16  | mg/l | Photobacteriu            |                | Anhydrous    |
| bacteria:                     |          |      |       | U    | m                        |                | substance    |
|                               |          |      |       |      | phosphoreum              |                |              |
| Water solubility:             |          |      |       |      |                          |                | Soluble      |

| 1,2-benzisothiazol-3(2H)-one |          |      |       |      |              |                |       |  |  |  |  |
|------------------------------|----------|------|-------|------|--------------|----------------|-------|--|--|--|--|
| Toxicity / effect            | Endpoint | Time | Value | Unit | Organism     | Test method    | Notes |  |  |  |  |
| 12.1. Toxicity to            | LC50     | 96h  | 0,8-  | mg/l | Oncorhynchus | OECD 203       |       |  |  |  |  |
| fish:                        |          |      | 2,18  |      | mykiss       | (Fish, Acute   |       |  |  |  |  |
|                              |          |      |       |      |              | Toxicity Test) |       |  |  |  |  |



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|                    |         | 1   |       |      |               |               |              |
|--------------------|---------|-----|-------|------|---------------|---------------|--------------|
| 12.1. Toxicity to  | EC50    | 48h | 1,1-  | mg/l | Daphnia       | OECD 202      |              |
| daphnia:           |         |     | 4,4   |      | magna         | (Daphnia sp.  |              |
|                    |         |     |       |      |               | Acute         |              |
|                    |         |     |       |      |               | Immobilisatio |              |
|                    |         |     |       |      |               | n Test)       |              |
| 12.1. Toxicity to  | EC50    | 96h | 0,055 | mg/l | Pseudokirchne | ,             |              |
| algae:             |         |     |       |      | riella        |               |              |
| 0                  |         |     |       |      | subcapitata   |               |              |
| 12.1. Toxicity to  | ErC50   | 72h | 0,11  | mg/l | Pseudokirchne | OECD 201      |              |
| algae:             |         |     |       |      | riella        | (Alga,        |              |
| 8                  |         |     |       |      | subcapitata   | Growth        |              |
|                    |         |     |       |      | ~~~··         | Inhibition    |              |
|                    |         |     |       |      |               | Test)         |              |
| 12.2. Persistence  |         |     |       |      |               | OECD 303      | Hardly       |
| and degradability: |         |     |       |      |               | (Simulation   | biodegradabl |
|                    |         |     |       |      |               | Test -        | e            |
|                    |         |     |       |      |               | Aerobic       |              |
|                    |         |     |       |      |               | Sewage        |              |
|                    |         |     |       |      |               | Treatment)    |              |
| 12.3.              | Log Pow |     | 1,11  |      |               | Treatment)    | A notable    |
| Bioaccumulative    | Logiow  |     | 1,11  |      |               |               | biological   |
| potential:         |         |     |       |      |               |               | accumulation |
| potentiai.         |         |     |       |      |               |               |              |
|                    |         |     |       |      |               |               | potential is |
|                    |         |     |       |      |               |               | not to be    |
|                    |         |     |       |      |               |               | expected     |
|                    |         |     |       |      |               |               | (LogPow 1-   |
|                    |         |     |       |      |               |               | 3).          |
| Toxicity to        | EC50    | 16h | 0,4   | mg/l | Pseudomonas   |               |              |
| bacteria:          |         |     |       |      | putida        |               |              |

| 2-Octyl-2H-isothia | zol-3-one |      |       |      |              |               |       |
|--------------------|-----------|------|-------|------|--------------|---------------|-------|
| Toxicity / effect  | Endpoint  | Time | Value | Unit | Organism     | Test method   | Notes |
| 12.1. Toxicity to  | LC50      | 96h  | 0,047 | mg/l | Oncorhynchus |               |       |
| fish:              |           |      |       |      | mykiss       |               |       |
| 12.1. Toxicity to  | NOEC/NO   | 35d  | 0,008 | mg/l | Pimephales   |               |       |
| fish:              | EL        |      | 5     |      | promelas     |               |       |
| 12.1. Toxicity to  | NOEC/NO   | 21d  | 0,003 | mg/l | Daphnia      | OECD 202      |       |
| daphnia:           | EL        |      |       |      | magna        | (Daphnia sp.  |       |
|                    |           |      |       |      |              | Acute         |       |
|                    |           |      |       |      |              | Immobilisatio |       |
|                    |           |      |       |      |              | n Test)       |       |
| 12.1. Toxicity to  | EC50      | 48h  | 0,32  | mg/l | Daphnia      |               |       |
| daphnia:           |           |      |       |      | magna        |               |       |
| 12.1. Toxicity to  | ErC10     | 48h  | 0,000 | mg/l | Navicula     | OECD 201      |       |
| algae:             |           |      | 224   |      | pelliculosa  | (Alga,        |       |
|                    |           |      |       |      |              | Growth        |       |
|                    |           |      |       |      |              | Inhibition    |       |
|                    |           |      |       |      |              | Test)         |       |



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| 12.1. Toxicity to algae:                | EC50 | 72h | 0,001 29 | mg/l | Navicula<br>pelliculosa | OECD 201<br>(Alga,<br>Growth<br>Inhibition<br>Test)  |                                  |
|---|------|-----|----------|------|-------------------------|--|----------------------------------|
| 12.2. Persistence<br>and degradability: |      |     | 25       | %    |                         |  | Not readily<br>biodegradabl<br>e |
| Toxicity to bacteria:                   | EC50 |     | 30,2     | mg/l | activated sludge        |  |                                  |
| Toxicity to<br>bacteria:                | EC20 | 3h  | 7,3      | mg/l | activated<br>sludge     | OECD 209<br>(Activated<br>Sludge,<br>Respiration<br>Inhibition<br>Test (Carbon<br>and<br>Ammonium<br>Oxidation)) |                                  |

| Reaction mass of 5 | 5-chloro-2-met | hyl-2H-i | isothiazol | -3-one ar | nd 2-methyl-2H-is | sothiazol-3-one ( | 3:1)  |
|--------------------|----------------|----------|------------|-----------|-------------------|-------------------|-------|
| Toxicity / effect  | Endpoint       | Time     | Value      | Unit      | Organism          | Test method       | Notes |
| 12.1. Toxicity to  | LC50           | 96h      | 0,28       | mg/l      | Lepomis           |                   |       |
| fish:              |                |          |            |           | macrochirus       |                   |       |
| 12.1. Toxicity to  | LC50           | 96h      | 0,19-      | mg/l      | Oncorhynchus      | OECD 203          |       |
| fish:              |                |          | 0,22       |           | mykiss            | (Fish, Acute      |       |
|                    |                |          |            |           |                   | Toxicity Test)    |       |
| 12.1. Toxicity to  | NOEC/NO        | 28d      | 0,098      | mg/l      | Oncorhynchus      | OECD 210          |       |
| fish:              | EL             |          |            | _         | mykiss            | (Fish, Early-     |       |
|                    |                |          |            |           |                   | Life Stage        |       |
|                    |                |          |            |           |                   | Toxicity Test)    |       |
| 12.1. Toxicity to  | NOEC/NO        | 21d      | 0,004      | mg/l      | Daphnia           | OECD 211          |       |
| daphnia:           | EL             |          |            |           | magna             | (Daphnia          |       |
| •                  |                |          |            |           |                   | magna             |       |
|                    |                |          |            |           |                   | Reproduction      |       |
|                    |                |          |            |           |                   | Test)             |       |
| 12.1. Toxicity to  | EC50           | 48h      | 0,16       | mg/l      | Daphnia           |                   |       |
| daphnia:           |                |          |            | _         | magna             |                   |       |
| 12.1. Toxicity to  | EC50           | 72h      | 0,048      | mg/l      | Pseudokirchne     | OECD 201          |       |
| algae:             |                |          |            | -         | riella            | (Alga,            |       |
|                    |                |          |            |           | subcapitata       | Growth            |       |
|                    |                |          |            |           | _                 | Inhibition        |       |
|                    |                |          |            |           |                   | Test)             |       |
| 12.1. Toxicity to  | NOEC/NO        | 72h      | 0,001      | mg/l      | Pseudokirchne     | OECD 201          |       |
| algae:             | EL             |          | 2          |           | riella            | (Alga,            |       |
|                    |                |          |            |           | subcapitata       | Growth            |       |
|                    |                |          |            |           | _                 | Inhibition        |       |
|                    |                |          |            |           |                   | Test)             |       |



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|                    | T       | 1  | 1 -    | 1    |           |               | _              |
|--------------------|---------|----|--------|------|-----------|---------------|----------------|
| 12.2. Persistence  |         |    | >60    | %    | activated | OECD 301 D    | Does not       |
| and degradability: |         |    |        |      | sludge    | (Ready        | conform        |
|                    |         |    |        |      |           | Biodegradabil | with EU        |
|                    |         |    |        |      |           | ity - Closed  | classification |
|                    |         |    |        |      |           | Bottle Test)  |                |
| 12.3.              | BCF     |    | 3,6    |      |           |               | calculated     |
| Bioaccumulative    |         |    |        |      |           |               | value          |
| potential:         |         |    |        |      |           |               |                |
| 12.3.              | Log Pow |    | 0,401- |      |           |               | Does not       |
| Bioaccumulative    |         |    | 0,486  |      |           |               | conform        |
| potential:         |         |    |        |      |           |               | with EU        |
| -                  |         |    |        |      |           |               | classification |
|                    |         |    |        |      |           |               |                |
| 12.5. Results of   |         |    |        |      |           |               | No PBT         |
| PBT and vPvB       |         |    |        |      |           |               | substance,     |
| assessment         |         |    |        |      |           |               | No vPvB        |
|                    |         |    |        |      |           |               | substance      |
| Toxicity to        | EC50    | 3h | 7,92   | mg/l | activated | OECD 209      |                |
| bacteria:          |         |    |        | _    | sludge    | (Activated    |                |
|                    |         |    |        |      |           | Sludge,       |                |
|                    |         |    |        |      |           | Respiration   |                |
|                    |         |    |        |      |           | Inhibition    |                |
|                    |         |    |        |      |           | Test (Carbon  |                |
|                    |         |    |        |      |           | and           |                |
|                    |         |    |        |      |           | Ammonium      |                |
|                    |         |    |        |      |           | Oxidation))   |                |

| Talc               |          |      |       |      |          |             |               |
|--------------------|----------|------|-------|------|----------|-------------|---------------|
| Toxicity / effect  | Endpoint | Time | Value | Unit | Organism | Test method | Notes         |
| Water solubility:  |          |      | <0,1  | %    |          |             |               |
| 12.2. Persistence  |          |      |       |      |          |             | Not relevant  |
| and degradability: |          |      |       |      |          |             | for inorganic |
|                    |          |      |       |      |          |             | substances.   |
| 12.5. Results of   |          |      |       |      |          |             | No PBT        |
| PBT and vPvB       |          |      |       |      |          |             | substance,    |
| assessment         |          |      |       |      |          |             | No vPvB       |
|                    |          |      |       |      |          |             | substance     |

| Calcium carbonate |          |      |       |      |             |               |       |
|-------------------|----------|------|-------|------|-------------|---------------|-------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism    | Test method   | Notes |
| 12.1. Toxicity to | EC50     | 48h  | >100  | mg/l | Daphnia     | OECD 202      |       |
| daphnia:          |          |      |       |      | magna       | (Daphnia sp.  |       |
|                   |          |      |       |      |             | Acute         |       |
|                   |          |      |       |      |             | Immobilisatio |       |
|                   |          |      |       |      |             | n Test)       |       |
| 12.1. Toxicity to | EC50     | 72h  | >14   | mg/l | Desmodesmus | OECD 201      |       |
| algae:            |          |      |       |      | subspicatus | (Alga,        |       |
|                   |          |      |       |      |             | Growth        |       |
|                   |          |      |       |      |             | Inhibition    |       |
|                   |          |      |       |      |             | Test)         |       |



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| Toxicity to<br>bacteria:   | EC50 | 3h  | >1000      | mg/l | activated<br>sludge        | OECD 209<br>(Activated<br>Sludge,<br>Respiration<br>Inhibition<br>Test (Carbon<br>and<br>Ammonium<br>Oxidation)) |   |
|--|------|-----|------------|------|----------------------------|--|---|
| Toxicity to<br>annelids:   |      |     |            |      | Eisenia<br>foetida         | OECD 207<br>(Earthworm,<br>Acute<br>Toxicity<br>Tests)   | Negative  |
| 12.3.<br>Bioaccumulative<br>potential:<br>12.4. Mobility in<br>soil: |      |     |            |      |                            |  | Not relevant<br>for inorganic<br>substances.<br>Not relevant<br>for inorganic<br>substances.                        |
| 12.5. Results of<br>PBT and vPvB<br>assessment                       |      |     |            |      |                            |  | Not relevant<br>for inorganic<br>substances.  |
| 12.1. Toxicity to fish:  | LC50 | 96h | >1000<br>0 | mg/l | Oncorhynchus<br>mykiss     |  |   |
| 12.1. Toxicity to fish:  | LC50 | 96h | >100       | mg/l | Oncorhynchus<br>mykiss     | OECD 203<br>(Fish, Acute<br>Toxicity Test)   |   |
| 12.1. Toxicity to daphnia:   | EC50 | 48h | >1000      | mg/l | Daphnia<br>magna           | •  |   |
| 12.1. Toxicity to algae:   | EC50 | 72h | >200       | mg/l | Desmodesmus<br>subspicatus |  |   |
| 12.2. Persistence<br>and degradability:                              |      |     |            |      |                            |  | Inorganic<br>products<br>cannot be<br>eliminated<br>from water<br>through<br>biological<br>purification<br>methods. |

#### **SECTION 13: Disposal considerations**

### **13.1** Waste treatment methods

# For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be



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allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant. **For contaminated packing material** Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

# **SECTION 14: Transport information**

| General statements                                      | 2077                                |             |
|---|-------------------------------------|-------------|
| 14.1. UN number or ID number:                           | 3077                                |             |
| Transport by road/by rail (ADR/RID)                     |                                     |             |
| 14.2. UN proper shipping name:                          |                                     |             |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SU                    | BSTANCE, SOLID, N.O.S. (2-OCTYL-2H- | <b>A</b>    |
| ISOTHIAZOL-3-ONE)                                       |                                     | رطاله.<br>ا |
| 14.3. Transport hazard class(es):                       | 9                                   | ¥           |
| 14.4. Packing group:                                    | III                                 | ⋌⋕⋧⋋        |
| Classification code:                                    | M7                                  | $\sim$      |
| LQ:   | 5 kg                                |             |
| 14.5. Environmental hazards:                            | environmentally                     |             |
|   | hazardous                           |             |
| Tunnel restriction code:                                | -                                   |             |
| Transport by sea (IMDG-code)                            |                                     |             |
| 14.2. UN proper shipping name:                          |                                     |             |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE                     | E, SOLID, N.O.S. (2-OCTYL-2H-       |             |
| ISOTHIAZOL-3-ONE)                                       |                                     | ഷിട         |
| 14.3. Transport hazard class(es):                       | 9                                   | 3           |
| 14.4. Packing group:                                    | III                                 | ¥           |
| EmS:  | F-A, S-F                            | ×4          |
| Marine Pollutant:                                       | Yes                                 |             |
| 14.5. Environmental hazards:                            | environmentally                     |             |
|   | hazardous                           |             |
| Transport by air (IATA)                                 |                                     |             |
| 14.2. UN proper shipping name:                          |                                     |             |
| Environmentally hazardous substance, solid, n.o.s. (2-O | CTYL-2H-ISOTHIAZOL-3-ONE)           | ፈበኩ         |
| 14.3. Transport hazard class(es):                       | 9                                   |             |
| 14.4. Packing group:                                    | III                                 | ¥           |
| 14.5. Environmental hazards:                            | environmentally                     |             |
|   | hazardous                           | -           |
| 14.6. Special precautions for user                      |                                     |             |
| Persons employed in transporting dangerous goods mus    | t be trained.                       |             |

Persons employed in transporting dangerous goods must be trained.All persons involved in transporting must observe safety regulations.Precautions must be taken to prevent damage.14.7. Maritime transport in bulk according to IMO instruments



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Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

#### **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity       | Qualifying quantity       |
|-------------------|------------------|---------------------------|---------------------------|
|                   |                  | (tonnes) of dangerous     | (tonnes) of dangerous     |
|                   |                  | substances as referred to | substances as referred to |
|                   |                  | in Article 3(10) for the  | in Article 3(10) for the  |
|                   |                  | application of - Lower-   | application of - Upper-   |
|                   |                  | tier requirements         | tier requirements         |
| E2                |                  | 200                       | 500                       |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

~ 0,9 %

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label. Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012. Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

Revised sections:

1-16

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.



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# Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) | Evaluation method used                             |  |  |
|---|--|--|--|
| No. 1272/2008 (CLP)                               |  |  |  |
| Skin Sens. 1, H317                                | Classification according to calculation procedure. |  |  |
| Repr. 2, H361d                                    | Classification according to calculation procedure. |  |  |
| Aquatic Chronic 2, H411                           | Classification according to calculation procedure. |  |  |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H361d Suspected of damaging the unborn child.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin. H315 Causes skin irritation.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

1400 Very toxic to aquatic life with long

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Skin Sens. — Skin sensitization

Repr. — Reproductive toxicity

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Aquatic Acute — Hazardous to the aquatic environment - acute

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - dermal

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
Guidelines for the preparation of safety data sheets as amended (ECHA).
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
Safety data sheets for the constituent substances.
ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
National Lists of Occupational Exposure Limits for each country as amended.
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.



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#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and

Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx,  $E\mu Cx$ , ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae,

plants)

etc. et cetera

- EU European Union
- EVAL Ethylene-vinyl alcohol copolymer
- Fax. Fax number
- gen. general
- GHS Globally Harmonized System of Classification and Labelling of Chemicals
- GWP Global warming potential
- Koc Adsorption coefficient of organic carbon in the soil
- Kow octanol-water partition coefficient
- IARC International Agency for Research on Cancer
- IATA International Air Transport Association
- IBC (Code) International Bulk Chemical (Code)



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IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLID International Uniform Chemical Information Database IUPACInternational Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc Log Kow, Log Pow Logarithm of octanol-water partition coefficient Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) PBT persistent, bioaccumulative and toxic PE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation RID concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.