

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

**Lack-Polish violett P2.03**  
**Art.: 457999**

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

##### Relevant identified uses of the substance or mixture:

Polishing liquid

Care product for automotive paints

##### Uses advised against:

No information available at present.

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

Koch-Chemie GmbH

Einsteinstrasse 42

59423 Unna

Telefon: +49 (0) 2303 / 9 86 70 - 0

Fax: +49 (0) 2303 / 9 86 70 - 26

info@koch-chemie.com

www.koch-chemie.com

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:

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:

+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

##### Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement                          |
|--------------|-----------------|---|
| Skin Sens.   | 1               | H317-May cause an allergic skin reaction. |

#### 2.2 Label elements

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



## Warning

H317-May cause an allergic skin reaction.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

P261-Avoid breathing vapours or spray. P280-Wear protective gloves.

P333+P313-If skin irritation or rash occurs: Get medical advice / attention.

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

2-methylisothiazol-3(2H)-one

### 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

|   |                             |
|---|-----------------------------|
| <b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>                        |                             |
| <b>Registration number (REACH)</b>  | 01-2119457273-39-XXXX       |
| <b>Index</b>  | ---                         |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>   | 918-481-9                   |
| <b>CAS</b>  | (64742-48-9)                |
| <b>content %</b>  | 10-<25                      |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>                         | EUH066<br>Asp. Tox. 1, H304 |
| <b>Siloxanes and silicones, C15-18-alkyl Me, di-Me, 3-hydroxypropyl Me, ethoxylated, propoxylated</b> |                             |
| <b>Registration number (REACH)</b>  | ---                         |
| <b>Index</b>  | ---                         |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>   | ---                         |
| <b>CAS</b>  | 142321-71-9                 |
| <b>content %</b>  | 1-<2,5                      |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>                         | Aquatic Chronic 2, H411     |
| <b>2-n-butyl-benzo[d]isothiazol-3-one</b>   |                             |
| <b>Registration number (REACH)</b>  | ---                         |

Page 3 of 21

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0003

Replacing version dated / version: 14.09.2023 / 0002

Valid from: 21.11.2024

PDF print date: 21.11.2024

Lack-Polish violett P2.03

Art.: 457999

|   |  |
|---|--|
| <b>Index</b>  | 606-079-00-3   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 420-590-7  |
| <b>CAS</b>  | 4299-07-4  |
| <b>content %</b>  | 0,01-<0,1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

|   |   |
|---|---|
| <b>2-methylisothiazol-3(2H)-one</b>   |   |
| <b>Registration number (REACH)</b>  | 01-2120764690-50-XXXX   |
| <b>Index</b>  | 613-326-00-9  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 220-239-6   |
| <b>CAS</b>  | 2682-20-4   |
| <b>content %</b>  | 0,0015-<0,01  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | EUH071<br>Acute Tox. 2, H330<br>Acute Tox. 3, H301<br>Acute Tox. 3, H311<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Sens. 1A, H317: $\geq 0,0015\%$<br>ATE (oral): 120 mg/kg<br>ATE (dermal): 242 mg/kg<br>ATE (as inhalation, Dusts or mist): 0,11 mg/l/4h<br>ATE (as inhalation, Vapours): 0,5 mg/l/4h                   |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product. 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.

If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## 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

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

Page 4 of 21

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0003

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Lack-Polish violett P2.03

Art.: 457999

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration.

#### **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.

reddening of the skin

Allergic reaction

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

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

#### **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

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.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

##### **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**

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) 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**

Page 5 of 21  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
 Revision date / version: 21.11.2024 / 0003  
 Replacing version dated / version: 14.09.2023 / 0002  
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 Lack-Polish violett P2.03  
 Art.: 457999

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**

Ensure good ventilation.  
 Avoid contact with eyes or skin.  
 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.  
 Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Store at room temperature.  
 Store in a dry place.

**7.3 Specific end use(s)**

No information available at present.  
 Observe the instructions for good working practice and the recommendations for risk assessment.  
 Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,  
 depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

**8.1 Control parameters**

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):  
 800 mg/m<sup>3</sup>

| GB | Chemical Name                  | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|----|--------------------------------|--|-----|
|    | WEL-TWA: 800 mg/m <sup>3</sup> | WEL-STEL: ---  | --- |
|    | Monitoring procedures:         | - Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Draeger - Hydrocarbons 2/a (81 03 581)<br>- Compur - KITA-187 S (551 174) |     |
|    | BMGV: ---                      | Other information: (OEL acc. to RCP-method, paragraphs 84-87, EH40)  |     |

| IRL | Chemical Name  | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|-----|--|--|-----|
|     | OELV-8h: 100 ppm (573 mg/m <sup>3</sup> ) ("Stoddard solvent", [White spirit]) | OELV-15min: ---  | --- |
|     | Monitoring procedures:   | - Draeger - Hydrocarbons 0,1%/c (81 03 571)<br>- Draeger - Hydrocarbons 2/a (81 03 581)<br>- Compur - KITA-187 S (551 174) |     |
|     | BLV: ---   | Other information: ---   |     |

| GB | Chemical Name  | Aluminium oxide        |     |
|----|--|------------------------|-----|
|    | WEL-TWA: 10 mg/m <sup>3</sup> (total inhal. dust), 4 mg/m <sup>3</sup> (resp. dust) (aluminium oxides) | WEL-STEL: ---          | --- |
|    | Monitoring procedures:   | ---                    |     |
|    | BMGV: ---  | Other information: --- |     |

| IRL | Chemical Name  | Aluminium oxide        |     |
|-----|--|------------------------|-----|
|     | OELV-8h: 4 mg/m <sup>3</sup> (respirable dust), 10 mg/m <sup>3</sup> (total inhalable dust) (Aluminium oxides) | OELV-15min: ---        | --- |
|     | Monitoring procedures:   | ---                    |     |
|     | BLV: ---   | Other information: --- |     |

| <b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> |   |                             |                   |              |                       |             |
|--|---|-----------------------------|-------------------|--------------|-----------------------|-------------|
| <b>Area of application</b>   | <b>Exposure route / Environmental compartment</b> | <b>Effect on health</b>     | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b>           | <b>Note</b> |
| Consumer   | Human - oral                                      | Long term, systemic effects | DNEL              | 125          | mg/kg                 |             |
| Consumer   | Human - dermal                                    | Long term, systemic effects | DNEL              | 125          | mg/kg                 |             |
| Consumer   | Human - inhalation                                | Long term, systemic effects | DNEL              | 185          | mg/m <sup>3</sup>     |             |
| Workers / employees  | Human - inhalation                                | Long term, systemic effects | DNEL              | 871          | mg/m <sup>3</sup>     |             |
| Workers / employees  | Human - dermal                                    | Long term, systemic effects | DNEL              | 208          | mg/kg body weight/day |             |

| <b>2-methylisothiazol-3(2H)-one</b> |  |                              |                   |              |                       |             |
|-------------------------------------|--|------------------------------|-------------------|--------------|-----------------------|-------------|
| <b>Area of application</b>          | <b>Exposure route / Environmental compartment</b>    | <b>Effect on health</b>      | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b>           | <b>Note</b> |
|                                     | Environment - freshwater                             |                              | PNEC              | 3,39         | µg/l                  |             |
|                                     | Environment - marine                                 |                              | PNEC              | 3,39         | µg/l                  |             |
|                                     | Environment - water, sporadic (intermittent) release |                              | PNEC              | 3,39         | µg/l                  |             |
|                                     | Environment - sewage treatment plant                 |                              | PNEC              | 0,23         | mg/l                  |             |
|                                     | Environment - soil                                   |                              | PNEC              | 0,0471       | mg/kg                 |             |
| Consumer                            | Human - inhalation                                   | Long term, local effects     | DNEL              | 0,021        | mg/m <sup>3</sup>     |             |
| Consumer                            | Human - inhalation                                   | Short term, local effects    | DNEL              | 0,043        | mg/m <sup>3</sup>     |             |
| Consumer                            | Human - oral   | Long term, systemic effects  | DNEL              | 0,027        | mg/kg body weight/day |             |
| Consumer                            | Human - oral   | Short term, systemic effects | DNEL              | 0,053        | mg/kg body weight/day |             |
| Workers / employees                 | Human - inhalation                                   | Long term, local effects     | DNEL              | 0,021        | mg/m <sup>3</sup>     |             |
| Workers / employees                 | Human - inhalation                                   | Short term, local effects    | DNEL              | 0,043        | mg/m <sup>3</sup>     |             |

| <b>Aluminium oxide</b>     |   |                             |                   |              |                   |             |
|----------------------------|---|-----------------------------|-------------------|--------------|-------------------|-------------|
| <b>Area of application</b> | <b>Exposure route / Environmental compartment</b> | <b>Effect on health</b>     | <b>Descriptor</b> | <b>Value</b> | <b>Unit</b>       | <b>Note</b> |
|                            | Environment - sewage treatment plant              |                             | PNEC              | 20           | mg/l              |             |
| Industrial                 | Human - inhalation                                | Long term                   | DNEL              | 3            | mg/m <sup>3</sup> |             |
| Commercial                 | Human - inhalation                                | Long term                   | DNEL              | 3            | mg/m <sup>3</sup> |             |
| Consumer                   | Human - inhalation                                | Long term, systemic effects | DNEL              | 0,75         | mg/m <sup>3</sup> |             |
| Consumer                   | Human - oral                                      | Long term, systemic effects | DNEL              | 1,32         | mg/kg bw/day      |             |

GB IRL M

Page 7 of 21

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0003

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Lack-Polish violett P2.03

Art.: 457999

|                     |                    |                          |      |      |                 |  |
|---------------------|--------------------|--------------------------|------|------|-----------------|--|
| Consumer            | Human - oral       | Long term                | DNEL | 6,22 | mg/kg<br>bw/day |  |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 3    | mg/m3           |  |

**GB** - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
| WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:  
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

**IRL** - Ireland/Éire | OELV-8h = Occupational Exposure Limit Value - 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
| OELV-15min = Occupational Exposure Limit Value - 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
| BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)): ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and Safety Executive (HSE), UK.  
(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
| Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, HSA (Health and Safety Authority)): Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.  
(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:  
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

**M** - Malta | OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average) [S.L.424.24, last amended by L.N. 356 of 2021]: [9] = Inhalable fraction, [10] = Respirable fraction.

Page 8 of 21

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0003

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Lack-Polish violett P2.03

Art.: 457999

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(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
| OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period) [S.L.424.24, last amended by L.N. 356 of 2021]: [8] = Short-term exposure limit value in relation to a reference period of 1 minute, [9] = Inhalable fraction, [10] = Respirable fraction.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020), United Kingdom).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information [S.L.424.24, last amended by L.N. 356 of 2021]: Skin = Possibility of a significant uptake through the skin. [11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. [12] = The mist is defined as the thoracic fraction. [13] = Established in accordance with the Annex to Directive 91/322/EEC. [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:

(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (2004/37/CE), (EU15) = Substantial contribution to the total body burden via dermal exposure possible. |

## 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).

If applicable

Protective nitrile gloves (EN ISO 374).

Protective Neoprene® / polychloroprene gloves (EN ISO 374).

Protective PVC gloves (EN ISO 374).

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

480

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.

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

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 properties

|   |  |
|---|--|
| Physical state:   | Liquid, Viscous                                      |
| Colour:   | Violet   |
| Odour:  | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:   | There is no information available on this parameter. |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:  | >93 °C   |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | 8  |
| Kinematic viscosity:                                      | >20,5 mm <sup>2</sup> /s (40°C)                      |
| Solubility:   | There is no information available on this parameter. |
| Partition coefficient n-octanol/water (log value):        | Does not apply to mixtures.                          |
| Vapour pressure:  | There is no information available on this parameter. |
| Density and/or relative density:                          | 0,98 g/ml  |
| Relative vapour density:                                  | There is no information available on this parameter. |
| Particle characteristics:                                 | Does not apply to liquids.                           |

### 9.2 Other information

No information available at present.

## 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

Heating, open flame, ignition sources

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

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

#### Lack-Polish violett P2.03

Art.: 457999

| Toxicity / effect   | Endpoint | Value | Unit | Organism | Test method | Notes  |
|---|----------|-------|------|----------|-------------|--------|
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:  |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:  |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:  |          |       |      |          |             | n.d.a. |
| Symptoms:   |          |       |      |          |             | n.d.a. |

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

| Toxicity / effect                | Endpoint | Value  | Unit                   | Organism | Test method                          | Notes   |
|----------------------------------|----------|--------|------------------------|----------|--------------------------------------|---|
| Acute toxicity, by oral route:   | LD50     | >5000  | mg/kg                  | Rat      | OECD 401 (Acute Oral Toxicity)       |   |
| Acute toxicity, by dermal route: | LD50     | >2000  | mg/kg                  | Rat      | OECD 402 (Acute Dermal Toxicity)     |   |
| Acute toxicity, by inhalation:   | LC50     | >5     | mg/m <sup>3</sup> /4 h | Rat      | OECD 403 (Acute Inhalation Toxicity) | Vapours, Analogous conclusion   |
| Acute toxicity, by inhalation:   | LC50     | >4,951 | mg/m <sup>3</sup> /4 h | Rat      | OECD 403 (Acute Inhalation Toxicity) | Analogous conclusion, Maximum achievable concentration., Vapours            |
| Skin corrosion/irritation:       |          |        |                        |          |                                      | Repeated exposure may cause skin dryness or cracking., Product removes fat. |

|   |       |         |       |                        |  |  |
|---|-------|---------|-------|------------------------|--|--|
| Skin corrosion/irritation:                                    |       |         |       |                        | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Not irritant, Analogous conclusion, Repeated exposure may cause skin dryness or cracking.  |
| Serious eye damage/irritation:                                |       |         |       |                        | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant   |
| Respiratory or skin sensitisation:                            |       |         |       | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | No (skin contact)  |
| Germ cell mutagenicity:                                       |       |         |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative   |
| Germ cell mutagenicity:                                       |       |         |       | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative, Analogous conclusion   |
| Carcinogenicity:  |       |         |       |                        | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)   | Negative, Analogous conclusion   |
| Reproductive toxicity:  |       |         |       |                        | OECD 421 (Reproduction/Developmental Toxicity Screening Test)  | Negative, Analogous conclusion   |
| Reproductive toxicity:  | NOAEC | >= 5220 | mg/m3 | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusioninhalation   |
| Specific target organ toxicity - repeated exposure (STOT-RE): |       |         |       |                        | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | No indications of such an effect., Analogous conclusion  |
| Aspiration hazard:  |       |         |       |                        |  | Yes  |
| Symptoms:   |       |         |       |                        |  | unconsciousness, headaches, dizziness, Dermatitis (skin inflammation), Reddening, drying of the skin., mucous membrane irritation, nausea and vomiting., diarrhoea, lower abdominal pain |

**Siloxanes and silicones, C15-18-alkyl Me, di-Me, 3-hydroxypropyl Me, ethoxylated, propoxylated**

| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method   | Notes |
|--------------------------------|----------|-------|-------|----------|---|-------|
| Acute toxicity, by oral route: | LD50     | >5000 | mg/kg | Rat      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |       |

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

| Toxicity / effect   | Endpoint | Value | Unit    | Organism   | Test method  | Notes                                     |
|---|----------|-------|---------|------------|--|---|
| Acute toxicity, by oral route:                                | LD50     | 120   | mg/kg   | Rat        | U.S. EPA Guideline OPPTS 870.1100                              | Female                                    |
| Acute toxicity, by oral route:                                | LD50     | 183   | mg/kg   | Rat        |  |   |
| Acute toxicity, by oral route:                                | ATE      | 120   | mg/kg   |            |  |   |
| Acute toxicity, by dermal route:                              | ATE      | 242   | mg/kg   |            |  |   |
| Acute toxicity, by dermal route:                              | LD50     | 242   | mg/kg   | Rat        | OECD 402 (Acute Dermal Toxicity)                               |   |
| Acute toxicity, by inhalation:                                | LD50     | 0,11  | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)                           | Aerosol                                   |
| Acute toxicity, by inhalation:                                | ATE      | 0,5   | mg/l/4h |            |  | Vapours                                   |
| Acute toxicity, by inhalation:                                | ATE      | 0,11  | mg/l/4h |            |  | Dusts or mist                             |
| Skin corrosion/irritation:                                    |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Corrosive                                 |
| Serious eye damage/irritation:                                |          |       |         | Rabbit     |  | Risk of serious damage to eyes.           |
| Serious eye damage/irritation:                                |          |       |         |            |  | Risk of serious damage to eyes.           |
| Respiratory or skin sensitisation:                            |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                                  | Yes (skin contact)                        |
| Germ cell mutagenicity:                                       |          |       |         |            | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative                                  |
| Germ cell mutagenicity:                                       |          |       |         |            | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative                                  |
| Germ cell mutagenicity:                                       |          |       |         |            | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative                                  |
| Reproductive toxicity:  | NOAEL    | 200   | ppm     | Rat        | OECD 416 (Two-generation Reproduction Toxicity Study)          |   |
| Specific target organ toxicity - repeated exposure (STOT-RE): | NOAEL    | 60    | mg/kg   | Rat        | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |   |
| Symptoms:   |          |       |         |            |  | mucous membrane irritation, watering eyes |

| Aluminium oxide                |          |        |         |          |  |  |
|--------------------------------|----------|--------|---------|----------|--|--|
| Toxicity / effect              | Endpoint | Value  | Unit    | Organism | Test method                                  | Notes                                      |
| Acute toxicity, by oral route: | NOAEL    | 30     | mg/kg   | Rat      |  | Analogous conclusion                       |
| Acute toxicity, by oral route: | LD50     | >10000 | mg/kg   | Rat      | OECD 401 (Acute Oral Toxicity)               |  |
| Acute toxicity, by inhalation: | NOAEC    | 70     | mg/m3   | Rat      |  | subchronic                                 |
| Acute toxicity, by inhalation: | LC50     | 7,6    | mg/l/4h | Rat      |  | Aerosol, Maximum achievable concentration. |
| Skin corrosion/irritation:     |          |        |         | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant                               |

Page 13 of 21  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
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 Lack-Polish violett P2.03  
 Art.: 457999

|   |       |    |       |                        |  |                                |
|---|-------|----|-------|------------------------|--|--------------------------------|
| Serious eye damage/irritation:  |       |    |       | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)  | Not irritant                   |
| Respiratory or skin sensitisation:                                      |       |    |       | Guinea pig             |  | Not sensitising                |
| Germ cell mutagenicity:   |       |    |       |                        | in vivo                                    | Negative, Analogous conclusion |
| Germ cell mutagenicity:   |       |    |       | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative                       |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | LOAEL | 70 | mg/m3 | Rat                    |  | Lung damage                    |
| Symptoms:   |       |    |       |                        |  | constipation                   |

## 11.2. Information on other hazards

| Lack-Polish violett P2.03<br>Art.: 457999 |          |       |      |          |             |   |
|---|----------|-------|------|----------|-------------|---|
| Toxicity / effect                         | Endpoint | Value | Unit | Organism | Test method | Notes   |
| Endocrine disrupting properties:          |          |       |      |          |             | Does not apply to mixtures.   |
| Other information:                        |          |       |      |          |             | No other relevant information available on adverse effects on health. |

| Siloxanes and silicones, C15-18-alkyl Me, di-Me, 3-hydroxypropyl Me, ethoxylated, propoxylated |          |       |      |          |             |       |
|--|----------|-------|------|----------|-------------|-------|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties:   |          |       |      |          |             | No    |

## SECTION 12: Ecological information

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

| Lack-Polish violett P2.03<br>Art.: 457999 |          |      |       |      |          |             |   |
|---|----------|------|-------|------|----------|-------------|---|
| Toxicity / effect                         | Endpoint | Time | Value | Unit | Organism | Test method | Notes   |
| 12.1. Toxicity to fish:                   |          |      |       |      |          |             | n.d.a.  |
| 12.1. Toxicity to daphnia:                |          |      |       |      |          |             | n.d.a.  |
| 12.1. Toxicity to algae:                  |          |      |       |      |          |             | n.d.a.  |
| 12.2. Persistence and degradability:      |          |      |       |      |          |             | n.d.a.  |
| 12.3. Bioaccumulative potential:          |          |      |       |      |          |             | n.d.a.  |
| 12.4. Mobility in soil:                   |          |      |       |      |          |             | n.d.a.  |
| 12.5. Results of PBT and vPvB assessment  |          |      |       |      |          |             | n.d.a.  |
| 12.6. Endocrine disrupting properties:    |          |      |       |      |          |             | Does not apply to mixtures.   |
| 12.7. Other adverse effects:              |          |      |       |      |          |             | No information available on other adverse effects on the environment. |

|                    |     |  |  |   |  |  |  |
|--------------------|-----|--|--|---|--|--|--|
| Other information: |     |  |  |   |  |  | DOC-elimination degree (complexing organic substance) $\geq$ 80%/28d: n.a. |
| Other information: | AOX |  |  | % |  |  | According to the recipe, contains no AOX.                                  |

| Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics |          |      |         |      |                                 |  |                                      |
|--|----------|------|---------|------|---------------------------------|--|--------------------------------------|
| Toxicity / effect  | Endpoint | Time | Value   | Unit | Organism                        | Test method  | Notes                                |
| 12.1. Toxicity to fish:  | NOELR    | 28d  | 0,10    | mg/l | Oncorhynchus mykiss             | QSAR   |                                      |
| 12.1. Toxicity to fish:  | LC50     | 96h  | >1000   | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               |                                      |
| 12.1. Toxicity to daphnia:   | EC50     | 48h  | >1000   | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                      |
| 12.1. Toxicity to daphnia:   | NOELR    | 21d  | 0,18    | mg/l | Daphnia magna                   | QSAR   |                                      |
| 12.1. Toxicity to algae:   | ErL50    | 72h  | >1000   | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                      |
| 12.1. Toxicity to algae:   | NOELR    | 72h  | 1000    | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                      |
| 12.2. Persistence and degradability:                                 |          | 28d  | 80      | %    |                                 | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable                |
| 12.3. Bioaccumulative potential:                                     | Log Pow  |      | 5,5-7,2 |      |                                 |  |                                      |
| 12.4. Mobility in soil:  | Log Koc  |      | >3      |      |                                 |  | Product is slightly volatile.        |
| 12.5. Results of PBT and vPvB assessment                             |          |      |         |      |                                 |  | No PBT substance, No vPvB substance  |
| 12.7. Other adverse effects:   |          |      |         |      |                                 |  | Product floats on the water surface. |
| Water solubility:  |          |      | ~10     | mg/l |                                 |  | Slight                               |

| Siloxanes and silicones, C15-18-alkyl Me, di-Me, 3-hydroxypropyl Me, ethoxylated, propoxylated |          |      |       |      |          |             |       |
|--|----------|------|-------|------|----------|-------------|-------|
| Toxicity / effect  | Endpoint | Time | Value | Unit | Organism | Test method | Notes |

|                                      |     |  |  |  |  |  |   |
|--------------------------------------|-----|--|--|--|--|--|---|
| 12.2. Persistence and degradability: |     |  |  |  |  |  | Mechanical precipitation possible., The product can be extensively eliminated from water via abiotic processes (e.g. adsorption on activated sludge). |
| Other information:                   | AOX |  |  |  |  |  | Does not contain any organically bound halogens which can contribute to the AOX value in waste water.   |
| Water solubility:                    |     |  |  |  |  |  | Insoluble   |

**2-n-butyl-benzo[d]isothiazol-3-one**

| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism                        | Test method                                      | Notes |
|----------------------------|-----------|------|-------|------|---------------------------------|--|-------|
| 12.1. Toxicity to fish:    | LC50      | 96h  | 0,15  | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to fish:    | NOEC/NOEL |      | 0,031 | mg/l |                                 |  |       |
| 12.1. Toxicity to daphnia: | NOEC/NOEL |      | 0,041 | mg/l |                                 |  |       |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 0,093 | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |
| 12.1. Toxicity to algae:   | ErC50     | 72h  | 0,45  | mg/l | Pseudokirchneriella subcapitata | OECD 221 (Lemna sp. Growth Inhibition Test)      |       |
| 12.1. Toxicity to algae:   | NOEC/NOEL |      | 0,099 | mg/l |                                 |  |       |

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

| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism            | Test method                                      | Notes |
|----------------------------|-----------|------|-------|------|---------------------|--|-------|
| 12.1. Toxicity to fish:    | NOEC/NOEL | 28d  | 2,38  | mg/l | Pimephales promelas | OECD 210 (Fish, Early-Life Stage Toxicity Test)  |       |
| 12.1. Toxicity to fish:    | LC50      | 96h  | 4,77  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d  | 0,55  | mg/l | Daphnia magna       | OECD 211 (Daphnia magna Reproduction Test)       |       |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 0,359 | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |

|   |           |      |          |      |                                     |   |   |
|---|-----------|------|----------|------|-------------------------------------|---|---|
| 12.1. Toxicity to algae:                    | EC50      | 72h  | 0,445    | mg/l | Pseudokirchnerie<br>lla subcapitata | OECD 201<br>(Alga, Growth<br>Inhibition Test)   |   |
| 12.1. Toxicity to algae:                    | NOEC/NOEL | 72h  | 0,03     | mg/l | Pseudokirchnerie<br>lla subcapitata | OECD 201<br>(Alga, Growth<br>Inhibition Test)   |   |
| 12.1. Toxicity to algae:                    | NOEC/NOEL | 120h | 0,05     | mg/l | Pseudokirchnerie<br>lla subcapitata | OECD 201<br>(Alga, Growth<br>Inhibition Test)   |   |
| 12.2. Persistence and<br>degradability:     |           | 48h  | 97       | %    |                                     | OECD 302 B<br>(Inherent<br>Biodegradability -<br>Zahn-<br>Wellens/EMPA<br>Test)                       | Readily<br>biodegradable                  |
| 12.2. Persistence and<br>degradability:     |           |      | < 0,08   | d    |                                     | OECD 307<br>(Aerobic and<br>Anaerobic<br>Transformation<br>in Soil)                                   |   |
| 12.2. Persistence and<br>degradability:     |           |      | 1,28-2,1 | d    |                                     | OECD 308<br>(Aerobic and<br>Anaerobic<br>Transformation<br>in Aquatic<br>Sediment<br>Systems)         |   |
| 12.2. Persistence and<br>degradability:     |           |      | 4,1      | d    |                                     | OECD 309<br>(Aerobic<br>Mineralisation in<br>Surface Water -<br>Simulation<br>Biodegradation<br>Test) |   |
| 12.2. Persistence and<br>degradability:     |           | 28d  | 0,32     | %    |                                     | OECD 301 B<br>(Ready<br>Biodegradability -<br>Co2 Evolution<br>Test)                                  | Not readily<br>biodegradable              |
| 12.3. Bioaccumulative<br>potential:         | Log Pow   |      | -0,32    |      |                                     | OECD 117<br>(Partition<br>Coefficient (n-<br>octanol/water) -<br>HPLC method)                         | Slight                                    |
| 12.3. Bioaccumulative<br>potential:         | BCF       |      | 3,16     |      |                                     |   | calculated value                          |
| 12.5. Results of PBT<br>and vPvB assessment |           |      |          |      |                                     |   | No PBT<br>substance, No<br>vPvB substance |
| Toxicity to bacteria:                       | EC50      | 3h   | 34,6     | mg/l | activated sludge                    |   | DIN 38412-3<br>(TTC-Test)                 |
| Toxicity to bacteria:                       | EC20      | 3h   | 2,8      | mg/l | activated sludge                    |   | DIN 38412-3<br>(TTC-Test)                 |

**Aluminium oxide**

| Toxicity / effect       | Endpoint | Time | Value | Unit | Organism               | Test method | Notes |
|-------------------------|----------|------|-------|------|------------------------|-------------|-------|
| 12.1. Toxicity to fish: | LC50     | 96h  | 218,6 | mg/l | Pimephales<br>promelas |             |       |



|  |           |     |         |      |                           |  |  |
|--|-----------|-----|---------|------|---------------------------|--|--|
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 48h | >0,135  | mg/l | Daphnia magna             | OECD 202 (Daphnia sp. Acute Immobilisation Test) |  |
| 12.1. Toxicity to daphnia:               | EC50      |     | >100    | mg/l | Daphnia magna             |  |  |
| 12.1. Toxicity to algae:                 | EC50      |     | >100    | mg/l | Selenastrum capricornutum |  |  |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | >=0,052 | mg/l | Selenastrum capricornutum | OECD 201 (Alga, Growth Inhibition Test)          |  |
| 12.2. Persistence and degradability:     |           |     |         |      |                           |  | Not relevant for inorganic substances. |
| 12.3. Bioaccumulative potential:         |           |     |         |      |                           |  | Not relevant for inorganic substances. |
| 12.4. Mobility in soil:                  |           |     |         |      |                           |  | Not relevant for inorganic substances. |
| 12.5. Results of PBT and vPvB assessment |           |     |         |      |                           |  | No PBT substance, No vPvB substance    |

## 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 allocated under certain circumstances. (2014/955/EU)

12 01 09 machining emulsions and solutions free of halogens

12 01 20 spent grinding bodies and grinding materials containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

Not applicable

Page 18 of 21  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
 Revision date / version: 21.11.2024 / 0003  
 Replacing version dated / version: 14.09.2023 / 0002  
 Valid from: 21.11.2024  
 PDF print date: 21.11.2024  
 Lack-Polish violett P2.03  
 Art.: 457999

Classification code: Not applicable  
 LQ: Not applicable  
 Transport category: Not applicable

**Transport by sea (IMDG-code)**

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable  
 Marine Pollutant: Not applicable  
 EmS: Not applicable  
 Segregation: Not applicable

**Transport by air (IATA)**

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**14.7. Maritime transport in bulk according to IMO instruments**

Non-dangerous material according to Transport Regulations.

**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 trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 15,65 %

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.

National requirements/regulations on safety and health protection must be applied when using work equipment.

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 2, 3, 4, 7, 8, 11, 12, 15, 16  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

**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) No. 1272/2008 (CLP)**

**Evaluation method used**

**Skin Sens. 1, H317**

**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.

H330 Fatal if inhaled.

H317 May cause an allergic skin reaction.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

Skin Sens. — Skin sensitization

Asp. Tox. — Aspiration hazard

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

Acute Tox. — Acute toxicity - inhalation

Acute Tox. — Acute toxicity - oral

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.

**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

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  
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, EµCx, 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)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
IUPAC International 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)  
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
mg/kg bw mg/kg body weight  
mg/kg bw/d, mg/kg bw/day mg/kg body weight/day  
mg/kg dw mg/kg dry weight  
mg/kg wwt mg/kg wet weight  
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  
ppm parts per million  
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. 6/7/8/9xx-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.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

Page 21 of 21

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0003

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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

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.

These statements were made by:

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