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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 11.03.2024 / 0002  
Replacing version dated / version: 11.09.2023 / 0001  
Valid from: 11.03.2024  
PDF print date: 15.03.2024  
Ceramic Rims Cr0.01  
Art.: 808999

## 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

**Ceramic Rims Cr0.01**  
**Art.: 808999**

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

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

Coating  
Sealing

**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  |
|-----------------|-----------------|---|
| Flam. Liq.      | 3               | H226-Flammable liquid and vapour.                       |
| Skin Corr.      | 1B              | H314-Causes severe skin burns and eye damage.           |
| Eye Dam.        | 1               | H318-Causes serious eye damage.                         |
| Skin Sens.      | 1               | H317-May cause an allergic skin reaction.               |
| Asp. Tox.       | 1               | H304-May be fatal if swallowed and enters airways.      |
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |

## 2.2 Label elements

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



Danger

H226-Flammable liquid and vapour. H314-Causes severe skin burns and eye damage. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection.

P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310-Immediately call a POISON CENTER / doctor.

P403+P235-Store in a well-ventilated place. Keep cool.

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics  
 Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated  
 Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine

## 2.3 Other hazards

The mixture contains a vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains a PBT substance (PBT = persistent, bioaccumulative, toxic).

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

**Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine**

**Registration number (REACH)**

**Index**

**EINECS, ELINCS, NLP, REACH-IT List-No.**

**CAS**

**content %**

**Classification according to Regulation (EC) 1272/2008 (CLP), M-factors**

475645-84-2

25-<50

Flam. Liq. 2, H225  
 Water-react. 3, H261  
 Skin Corr. 1B, H314  
 Eye Dam. 1, H318  
 Aquatic Chronic 3, H412

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|  |  |
|--|--|
| <b>Specific Concentration Limits and ATE</b>   | ATE (oral): 500 mg/kg  |
| <b>Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>         |  |
| <b>Registration number (REACH)</b>   | 01-2119453414-43-XXXX  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | 920-107-4  |
| <b>CAS</b>   | ---  |
| <b>content %</b>   | 25-<50   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>          | EUH066<br>Asp. Tox. 1, H304  |
| <b>n-butyl acetate</b>   | <b>Substance for which an EU exposure limit value applies.</b>         |
| <b>Registration number (REACH)</b>   | 01-2119485493-29-XXXX  |
| <b>Index</b>   | 607-025-00-1   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | 204-658-1  |
| <b>CAS</b>   | 123-86-4   |
| <b>content %</b>   | 10-<25   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>          | EUH066<br>Flam. Liq. 3, H226<br>STOT SE 3, H336                        |
| <b>Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated</b> |  |
| <b>Registration number (REACH)</b>   | ---  |
| <b>Index</b>   | ---  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | ---  |
| <b>CAS</b>   | 102782-92-3  |
| <b>content %</b>   | 1-<3   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>          | Skin Corr. 1B, H314<br>Eye Dam. 1, H318                                |
| <b>Octamethylcyclotetrasiloxane</b>  | <b>PBT-substance<br/>vPvB-substance<br/>SVHC-substance</b>             |
| <b>Registration number (REACH)</b>   | 01-2119529238-36-XXXX  |
| <b>Index</b>   | 014-018-00-1   |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | 209-136-7  |
| <b>CAS</b>   | 556-67-2   |
| <b>content %</b>   | 0,025-<0,1   |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>          | Flam. Liq. 3, H226<br>Repr. 2, H361f<br>Aquatic Chronic 1, H410 (M=10) |

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. 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

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Remove person from danger area.  
Supply person with fresh air and consult doctor according to symptoms.

### **Skin contact**

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Cauterizations not treated lead to wounds difficult to heal.

### **Eye contact**

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Protect uninjured eye.

Follow-up examination by an ophthalmologist.

### **Ingestion**

Rinse the mouth thoroughly with water.

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

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

### **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.

Corrosive burns on skin as well as mucous membrane possible.

Necrosis

Risk of serious damage to eyes.

Corneal damage.

Danger of blindness.

Ingestion:

Pain in the mouth and throat

Gastrointestinal disturbances

Oesophageal perforation

Gastric perforation

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

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

Symptomatic treatment.

Gastric lavage (stomach washing) only under endotracheal intubation.

Subsequent observation for pneumonia and pulmonary oedema.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

CO<sub>2</sub>

Foam

Extinction powder

#### **Unsuitable extinguishing media**

Water

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

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

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Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary.  
Cool container at risk with water.  
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. Keep unprotected persons away. 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. Fill the absorbed material into lockable containers. Do not wash away with water or watery cleaning agents.

### 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

Ensure good ventilation. Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate. 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. Observe special storage conditions. Safely prevent contact with water or damp air

GB IRL M

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Under all circumstances prevent penetration into the soil.  
 Protect from direct sunlight and warming.  
 Store in a well ventilated place.  
 Store cool.

**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):  
 1200 mg/m3

| GB | Chemical Name  | Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|----|--|--|-----|
|    | WEL-TWA: 1200 mg/m3 (>=C7 normal and branched chain alkanes) | WEL-STEL: ---  | --- |
|    | Monitoring procedures:                                       | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul> |     |
|    | BMGV: ---  | Other information: ---   |     |

| IRL | Chemical Name   | Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|-----|---|--|-----|
|     | OELV-8h: 100 ppm (573 mg/m3) ("Stoddard solvent", [White spirit]) | OELV-15min: ---  | --- |
|     | Monitoring procedures:  | <ul style="list-style-type: none"> <li>- Draeger - Hydrocarbons 0,1%/c (81 03 571)</li> <li>- Draeger - Hydrocarbons 2/a (81 03 581)</li> <li>- Compur - KITA-187 S (551 174)</li> </ul> |     |
|     | BLV: ---  | Other information: ---   |     |

| GB | Chemical Name   | n-butyl acetate  |     |
|----|---|--|-----|
|    | WEL-TWA: 150 ppm (724 mg/m3) (WEL-TWA), 50 ppm (241 mg/m3) (EU) | WEL-STEL: 200 ppm (966 mg/m3) (WEL-STEL), 150 ppm (723 mg/m3) (EU)   | --- |
|    | Monitoring procedures:  | <ul style="list-style-type: none"> <li>- Compur - KITA-138 U (548 857)</li> <li>- Compur - KITA-139 SB(C) (549 731)</li> <li>- NIOSH 1450 (ESTERS 1) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007</li> </ul> |     |
|    | BMGV: ---   | Other information: ---   |     |

| IRL | Chemical Name                             | n-butyl acetate  |     |
|-----|---|--|-----|
|     | OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) | OELV-15min: 150 ppm (723 mg/m3) (OELV-15min, EU)   | --- |
|     | Monitoring procedures:                    | <ul style="list-style-type: none"> <li>- Compur - KITA-138 U (548 857)</li> <li>- Compur - KITA-139 SB(C) (549 731)</li> <li>- NIOSH 1450 (ESTERS 1) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007</li> </ul> |     |
|     | BLV: ---                                  | Other information: ---   |     |

| M | Chemical Name                             | n-butyl acetate  |     |
|---|---|--|-----|
|   | OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) | OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)   | --- |
|   | Monitoring procedures:                    | <ul style="list-style-type: none"> <li>- Compur - KITA-138 U (548 857)</li> <li>- Compur - KITA-139 SB(C) (549 731)</li> <li>- NIOSH 1450 (ESTERS 1) - 2003</li> </ul> |     |

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- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
- OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007

BMGV: ---

Other information: ---

| <b>n-butyl acetate</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              | 0,18         | mg/l         |             |
|                            | Environment - marine                              |                              | PNEC              | 0,018        | mg/l         |             |
|                            | Environment - periodic release                    |                              | PNEC              | 0,36         | mg/l         |             |
|                            | Environment - sediment, freshwater                |                              | PNEC              | 0,981        | mg/kg        |             |
|                            | Environment - sediment, marine                    |                              | PNEC              | 0,0981       | mg/kg        |             |
|                            | Environment - soil                                |                              | PNEC              | 0,0903       | mg/kg        |             |
|                            | Environment - sewage treatment plant              |                              | PNEC              | 35,6         | mg/l         |             |
| Consumer                   | Human - dermal                                    | Long term, systemic effects  | DNEL              | 3,4          | mg/kg        |             |
| Consumer                   | Human - inhalation                                | Short term, systemic effects | DNEL              | 300          | mg/m3        |             |
| Consumer                   | Human - inhalation                                | Long term, systemic effects  | DNEL              | 35,7         | mg/m3        |             |
| Consumer                   | Human - inhalation                                | Short term, local effects    | DNEL              | 300          | mg/m3        |             |
| Consumer                   | Human - inhalation                                | Long term, local effects     | DNEL              | 35,7         | mg/m3        |             |
| Consumer                   | Human - dermal                                    | Short term, systemic effects | DNEL              | 6            | mg/kg bw/day |             |
| Consumer                   | Human - oral                                      | Long term, systemic effects  | DNEL              | 2            | mg/kg bw/day |             |
| Consumer                   | Human - oral                                      | Short term, systemic effects | DNEL              | 2            | mg/kg bw/day |             |
| Workers / employees        | Human - inhalation                                | Short term, systemic effects | DNEL              | 600          | mg/m3        |             |
| Workers / employees        | Human - inhalation                                | Long term, systemic effects  | DNEL              | 300          | mg/m3        |             |
| Workers / employees        | Human - dermal                                    | Long term, systemic effects  | DNEL              | 7            | mg/kg bw/d   |             |
| Workers / employees        | Human - dermal                                    | Short term, systemic effects | DNEL              | 11           | mg/kg bw/day |             |
| Workers / employees        | Human - inhalation                                | Short term, local effects    | DNEL              | 600          | mg/m3        |             |
| Workers / employees        | Human - inhalation                                | Long term, local effects     | DNEL              | 300          | mg/m3        |             |

| <b>Octamethylcyclotetrasiloxane</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              | 1,5          | µg/l        |             |
|                                     | Environment - sewage treatment plant              |                         | PNEC              | 10           | mg/l        |             |
|                                     | Environment - soil                                |                         | PNEC              | 0,54         | mg/kg       |             |



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|                     |                                    |                              |      |      |              |  |
|---------------------|------------------------------------|------------------------------|------|------|--------------|--|
|                     | Environment - sediment, freshwater |                              | PNEC | 3    | mg/kg        |  |
|                     | Environment - marine               |                              | PNEC | 0,15 | µg/l         |  |
|                     | Environment - sediment, marine     |                              | PNEC | 0,3  | mg/kg        |  |
|                     | Environment - oral (animal feed)   |                              | PNEC | 41   | mg/kg feed   |  |
| Consumer            | Human - oral                       | Short term, systemic effects | DNEL | 3,7  | mg/kg bw/day |  |
| Consumer            | Human - oral                       | Long term, systemic effects  | DNEL | 3,7  | mg/kg bw/day |  |
| Consumer            | Human - inhalation                 | Short term, systemic effects | DNEL | 13   | mg/m3        |  |
| Consumer            | Human - inhalation                 | Short term, local effects    | DNEL | 13   | mg/m3        |  |
| Consumer            | Human - inhalation                 | Long term, systemic effects  | DNEL | 13   | mg/m3        |  |
| Consumer            | Human - inhalation                 | Long term, local effects     | DNEL | 13   | mg/kg        |  |
| Workers / employees | Human - inhalation                 | Short term, local effects    | DNEL | 73   | mg/m3        |  |
| Workers / employees | Human - inhalation                 | Short term, systemic effects | DNEL | 73   | mg/m3        |  |
| Workers / employees | Human - inhalation                 | Long term, local effects     | DNEL | 73   | mg/m3        |  |
| Workers / employees | Human - inhalation                 | Long term, systemic effects  | DNEL | 73   | mg/m3        |  |

Ⓒ - 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 or 2019/1831/EU:  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE). |

Ⓓ - 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 or 2019/1831/EU:

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

Ⓜ - 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.

(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-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 or 2019/1831/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). |

## 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:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm:

> 0,5

Permeation time (penetration time) in minutes:

> 10

Protective hand cream recommended.

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.

Skin protection - Other:

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

Respiratory protection:

If OES or MEL is exceeded.

Gas mask filter ABEK-P2 (EN 14387), code colour brown, grey, yellow, green, 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  |
| Colour:   | Colourless  |
| 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:  | 40 °C (The flash-point of the mixture was not tested, but complies with the ingredient with the lowest value. ) |
| Auto-ignition temperature:                                | There is no information available on this parameter.  |
| Decomposition temperature:                                | There is no information available on this parameter.  |
| pH:   | Mixture is non-polar/aprotic.   |
| 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:                          | ~0,92 g/ml  |
| Relative vapour density:                                  | There is no information available on this parameter.  |
| Particle characteristics:                                 | Does not apply to liquids.  |

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## 9.2 Other information

Substances and mixtures, which emit flammable gases in contact with water:

There is no spontaneous ignition and no gas evolution > 1 L/kg of the formulation per hour. (Test N.5, Part III, sub-section 33.5.4 of the UN Manual of Tests and Criteria)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

reacts with water

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

In case of contact with water:

Possible emission of inflammable gases.

### 10.4 Conditions to avoid

Heating, open flame, ignition sources

Electrostatic charge

Moisture

### 10.5 Incompatible materials

Bases

Acids

Alcohols

Amines

Halogenated compounds

Oxidizing agents

Water

### 10.6 Hazardous decomposition products

In case of contact with water:

Hydrogen gas

Ammonia

## 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).

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| 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. |

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**Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine**

| Toxicity / effect              | Endpoint | Value     | Unit  | Organism | Test method   | Notes                          |
|--------------------------------|----------|-----------|-------|----------|---|--------------------------------|
| Acute toxicity, by oral route: | LD50     | >300-2000 | mg/kg | Rat      | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |                                |
| Acute toxicity, by oral route: | ATE      | 500       | mg/kg |          |   |                                |
| Skin corrosion/irritation:     |          |           |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)              | Skin Corr. 1B                  |
| Germ cell mutagenicity:        |          |           |       |          | (Ames-Test)   | Negative E. coli               |
| Symptoms:                      |          |           |       |          |   | coughing, respiratory distress |

**Hydrocarbons, C12-C15, 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     | >5000 | mg/kg                  | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                             |   |
| Acute toxicity, by inhalation:                              | LC50     | 4951  | mg/m <sup>3</sup> /4 h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                         |   |
| Skin corrosion/irritation:                                  |          |       |                        | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                 | Not irritant, Analogous conclusion, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation:                              |          |       |                        | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                    | Not irritant  |
| Respiratory or skin sensitisation:                          |          |       |                        | Guinea pig             | OECD 406 (Skin Sensitisation)                                | Not sensitizing (Analogous conclusion)  |
| Germ cell mutagenicity:                                     |          |       |                        | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                   | Negative, Analogous conclusion  |
| Germ cell mutagenicity:                                     |          |       |                        | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)           | Negative  |
| Carcinogenicity:  |          |       |                        | Rat                    | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | Negative, Analogous conclusion  |
| Reproductive toxicity:                                      |          |       |                        |                        | OECD 414 (Prenatal Developmental Toxicity Study)             | Negative, Analogous conclusion  |
| Specific target organ toxicity - single exposure (STOT-SE): |          |       |                        |                        |  | Negative  |
| Aspiration hazard:  |          |       |                        |                        |  | Yes   |
| Symptoms:   |          |       |                        |                        |  | headaches, dizziness  |

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|   |       |        |         |     |  |                                |
|---|-------|--------|---------|-----|--|--------------------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | >=3000 | mg/kg/d | Rat | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Negative, Analogous conclusion |
|---|-------|--------|---------|-----|--|--------------------------------|

| <b>n-butyl acetate</b>  |                 |              |             |                        |   |   |
|---|-----------------|--------------|-------------|------------------------|---|---|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>  | <b>Notes</b>  |
| Acute toxicity, by oral route:  | LD50            | 10760-13100  | mg/kg       | Rat                    | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) |   |
| Acute toxicity, by dermal route:  | LD50            | >14112       | mg/kg       | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                          |   |
| Acute toxicity, by inhalation:  | LC50            | >21,1        | mg/l/4h     | Rat                    | OECD 403 (Acute Inhalation Toxicity)                      | Vapours   |
| Skin corrosion/irritation:  |                 |              |             | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)              | Not irritant, Repeated exposure may cause skin dryness or cracking.   |
| Serious eye damage/irritation:  |                 |              |             | Rabbit                 | 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  |
| Reproductive toxicity:  | NOAEC           | 9640         | mg/m3       |                        | OECD 416 (Two-generation Reproduction Toxicity Study)     | Negative  |
| Specific target organ toxicity - single exposure (STOT-SE):             |                 |              |             |                        |   | Vapours may cause drowsiness and dizziness.   |
| Specific target organ toxicity - repeated exposure (STOT-RE):           |                 |              |             |                        |   | Negative  |
| Symptoms:   |                 |              |             |                        |   | drowsiness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC           | 500          | ppm         | Rat                    |   |   |

| <b>Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, methoxy-terminated</b> |                 |              |             |                 |  |               |
|--|-----------------|--------------|-------------|-----------------|--|---------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b>                           | <b>Notes</b>  |
| Skin corrosion/irritation:   |                 |              |             | Rabbit          | OECD 404 (Acute Dermal Irritation/Corrosion) | Skin Corr. 1B |
| Serious eye damage/irritation:   |                 |              |             | Rabbit          | OECD 405 (Acute Eye Irritation/Corrosion)    | Eye Dam. 1    |

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| <b>Octamethylcyclotetrasiloxane</b>                                     |                 |              |             |                        |  |                 |
|---|-----------------|--------------|-------------|------------------------|--|-----------------|
| <b>Toxicity / effect</b>  | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b>   | <b>Notes</b>    |
| Acute toxicity, by oral route:  | LD50            | 4800         | mg/kg       | Rat                    | OECD 401 (Acute Oral Toxicity)                               |                 |
| Acute toxicity, by dermal route:  | LD50            | >2375        | mg/kg       | Rat                    | OECD 402 (Acute Dermal Toxicity)                             |                 |
| Acute toxicity, by inhalation:  | LC50            | 36           | mg/l/4h     | Rat                    | OECD 403 (Acute Inhalation Toxicity)                         |                 |
| Skin corrosion/irritation:  |                 |              |             | Rat                    | OECD 404 (Acute Dermal Irritation/Corrosion)                 | Not irritant    |
| Serious eye damage/irritation:  |                 |              |             | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                    | Not irritant    |
| Respiratory or skin sensitisation:                                      |                 |              |             | Guinea pig             | OECD 406 (Skin Sensitisation)                                | Not sensitising |
| Germ cell mutagenicity:   |                 |              |             | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                   | Negative        |
| Germ cell mutagenicity:   |                 |              |             | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)        | Negative        |
| Carcinogenicity:  | NOAEL           | 150          | mg/kg       | Rat                    | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) | inhalation      |
| Reproductive toxicity:  | NOAEL           |              |             | Rat                    | OECD 416 (Two-generation Reproduction Toxicity Study)        | Repr. 2         |
| Reproductive toxicity (Developmental toxicity):                         | NOAEL           | 300          | ppm         | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)             |                 |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL           | 960          | mg/kg bw/d  | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)            | (21 d)          |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC           | 150          | mg/kg       | Rat                    | OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies) |                 |

## 11.2. Information on other hazards

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| <b>Toxicity / effect</b>         | <b>Endpoint</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b>  |
| Endocrine disrupting properties: |                 |              |             |                 |                    | Does not apply to mixtures.   |
| Other information:               |                 |              |             |                 |                    | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

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



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| <b>Ceramic Rims Cr0.01</b>               |                 |             |              |             |                 |                    |   |
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| <b>Toxicity / effect</b>                 | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b> | <b>Test method</b> | <b>Notes</b>  |
| 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             |             |              | %           |                 |                    | Does not contain any organically bound halogens which can contribute to the AOX value in waste water. |

| <b>Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine</b> |                 |             |              |             |                   |                                      |              |
|--|-----------------|-------------|--------------|-------------|-------------------|--------------------------------------|--------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>   | <b>Test method</b>                   | <b>Notes</b> |
| 12.1. Toxicity to fish:  | LC50            | 96h         | 57,1         | mg/l        | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) |              |

| <b>Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> |                 |             |              |             |                     |  |                      |
|--|-----------------|-------------|--------------|-------------|---------------------|--|----------------------|
| <b>Toxicity / effect</b>   | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>     | <b>Test method</b>                               | <b>Notes</b>         |
| 12.1. Toxicity to fish:  | LC50            | 96h         | 1000         | mg/l        | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             | Analogous conclusion |
| 12.1. Toxicity to fish:  | NOEC/NOEL       | 28d         | >1000        | mg/l        | Oncorhynchus mykiss |  |                      |
| 12.1. Toxicity to daphnia:   | NOEC/NOEL       | 21d         | >1000        | mg/l        | Daphnia magna       | QSAR   |                      |
| 12.1. Toxicity to daphnia:   | EC50            | 48h         | 1000         | mg/l        | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) | Analogous conclusion |

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|   |       |     |      |      |                                     |   |  |
|---|-------|-----|------|------|-------------------------------------|---|--|
| 12.1. Toxicity to algae:                    | EC50  | 72h | 1000 | mg/l | Pseudokirchnerie<br>lla subcapitata | OECD 201<br>(Alga, Growth<br>Inhibition Test)                                     | Analogous<br>conclusion                              |
| 12.1. Toxicity to algae:                    | NOELR | 72h | 1000 | mg/l | Raphidocelis<br>subcapitata         |   | Analogous<br>conclusion                              |
| 12.2. Persistence and<br>degradability:     |       | 28d | 67,6 | %    | activated sludge                    | OECD 301 F<br>(Ready<br>Biodegradability -<br>Manometric<br>Respirometry<br>Test) | Readily<br>biodegradable,<br>Analogous<br>conclusion |
| 12.5. Results of PBT<br>and vPvB assessment |       |     |      |      |                                     |   | No PBT<br>substance, No<br>vPvB substance            |
| Water solubility:                           |       |     |      |      |                                     |   | Insoluble  |

| <b>n-butyl acetate</b>                      |                 |             |               |             |                            |  |  |
|---|-----------------|-------------|---------------|-------------|----------------------------|--|--|
| <b>Toxicity / effect</b>                    | <b>Endpoint</b> | <b>Time</b> | <b>Value</b>  | <b>Unit</b> | <b>Organism</b>            | <b>Test method</b>   | <b>Notes</b>                                 |
| 12.1. Toxicity to fish:                     | LC50            | 96h         | 18            | mg/l        | Pimephales<br>promelas     | OECD 203<br>(Fish, Acute<br>Toxicity Test)                           |  |
| 12.1. Toxicity to<br>daphnia:               | EC50            | 48h         | 44            | mg/l        | Daphnia magna              | OECD 202<br>(Daphnia sp.<br>Acute<br>Immobilisation<br>Test)         |  |
| 12.1. Toxicity to<br>daphnia:               | NOEC/NOEL       | 21d         | 23            | mg/l        | Daphnia magna              | OECD 211<br>(Daphnia magna<br>Reproduction<br>Test)                  |  |
| 12.1. Toxicity to algae:                    | EC50            | 72h         | 397           | mg/l        | Scenedesmus<br>subspicatus | OECD 201<br>(Alga, Growth<br>Inhibition Test)                        |  |
| 12.1. Toxicity to algae:                    | NOEC/NOEL       | 72h         | 200           | mg/l        | Desmodesmus<br>subspicatus |  |  |
| 12.2. Persistence and<br>degradability:     |                 | 28d         | 98            | %           |                            | OECD 301 D<br>(Ready<br>Biodegradability -<br>Closed Bottle<br>Test) | Readily<br>biodegradable                     |
| 12.3. Bioaccumulative<br>potential:         | Log Pow         |             | 1,78 -<br>2,3 |             |                            |  | Low  |
| 12.3. Bioaccumulative<br>potential:         | BCF             |             | 15,3          |             |                            |  |  |
| 12.5. Results of PBT<br>and vPvB assessment |                 |             |               |             |                            |  | No PBT<br>substance, No<br>vPvB<br>substance |
| Toxicity to bacteria:                       | EC10            |             | 959           | mg/l        | Pseudomonas<br>putida      |  |  |

| <b>Octamethylcyclotetrasiloxane</b> |                 |             |              |             |                        |                    |                     |
|-------------------------------------|-----------------|-------------|--------------|-------------|------------------------|--------------------|---------------------|
| <b>Toxicity / effect</b>            | <b>Endpoint</b> | <b>Time</b> | <b>Value</b> | <b>Unit</b> | <b>Organism</b>        | <b>Test method</b> | <b>Notes</b>        |
| 12.1. Toxicity to fish:             | LC50            | 96h         | > 22         | µg/l        | Oncorhynchus<br>mykiss |                    | EPA OTS<br>797.1400 |
| 12.1. Toxicity to fish:             | NOEC/NOEL       | >60d        | >=0,004<br>4 | mg/l        | Oncorhynchus<br>mykiss |                    |                     |
| 12.1. Toxicity to<br>daphnia:       | EC50            | 48h         | > 15         | µg/l        | Daphnia magna          |                    | EPA OTS<br>797.1300 |
| 12.1. Toxicity to<br>daphnia:       | NOEC/NOEL       | 21d         | >0,015       | mg/l        | Daphnia magna          |                    |                     |

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|  |         |     |        |      |                     |  |                               |
|--|---------|-----|--------|------|---------------------|--|-------------------------------|
| 12.1. Toxicity to algae:                 | ErC10   | 96h | 0,022  | mg/l |                     |  |                               |
| 12.1. Toxicity to algae:                 | EC50    | 96h | >2000  | mg/l |                     |  |                               |
| 12.2. Persistence and degradability:     |         | 28d | 3,7    | %    | activated sludge    | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | Not readily biodegradable     |
| 12.3. Bioaccumulative potential:         | BCF     | 28d | 12400  |      | Pimephales promelas |  | EPA OTS 797.1520              |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 6,98   |      |                     |  | 21,7 °C                       |
| 12.5. Results of PBT and vPvB assessment |         |     |        |      |                     |  | PBT-substance, vPvB-substance |
| Toxicity to bacteria:                    | EC50    | 3h  | >10000 | mg/l | activated sludge    | ISO 8192   |                               |

## 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)

08 02 99 wastes not otherwise specified

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.

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

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

14.1. UN number or ID number: 2920

14.2. UN proper shipping name:

UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CYCLOSILAZANES, DI-ME, ME HYDROGEN, POLYMERS WITH DI-ME, ME HYDROGEN SILAZANES, REACTION PRODUCTS WITH 3-(TRIETHOXSILYL)-1-PROPANAMINE, BUTYL ACETATE)

14.3. Transport hazard class(es): 8(3)

14.4. Packing group: II

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D/E

Classification code: CF1

LQ: 1 L

Transport category: 2

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

14.1. UN number or ID number: 2920

14.2. UN proper shipping name:



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UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CYCLOSILAZANES, DI-ME, ME HYDROGEN, POLYMERS WITH DI-ME, ME HYDROGEN SILAZANES, REACTION PRODUCTS WITH 3-(TRIETHOXSILYL)-1-PROPANAMINE, BUTYL ACETATE)

14.3. Transport hazard class(es): 8(3)  
 14.4. Packing group: II  
 14.5. Environmental hazards: Not applicable  
 Marine Pollutant: Not applicable  
 EmS: F-E, S-C



**Transport by air (IATA)**

14.1. UN number or ID number: 2920  
 14.2. UN proper shipping name: UN 2920 Corrosive liquid, flammable, n.o.s. (CYCLOSILAZANES, DI-ME, ME HYDROGEN, POLYMERS WITH DI-ME, ME HYDROGEN SILAZANES, REACTION PRODUCTS WITH 3-(TRIETHOXSILYL)-1-PROPANAMINE, BUTYL ACETATE)  
 14.3. Transport hazard class(es): 8(3)  
 14.4. Packing group: II  
 14.5. Environmental hazards: Not applicable



**14.6. Special precautions for user**

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**

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)!  
 Regulation (EC) No 1907/2006, Annex XVII  
 Octamethylcyclotetrasiloxane  
 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 (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| P5c               |                  | 5000  | 50000   |

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): 14,75 g/l

Observe incident regulations.

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.

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## SECTION 16: Other information

Revised sections: 2  
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.

### 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                             |
|---|--|
| Flam. Liq. 3, H226  | Classification based on test data.                 |
| Skin Corr. 1B, H314   | Classification according to calculation procedure. |
| Eye Dam. 1, H318  | Classification according to calculation procedure. |
| Skin Sens. 1, H317  | Classification according to calculation procedure. |
| Asp. Tox. 1, H304   | Classification according to calculation procedure. |
| Aquatic Chronic 3, H412   | 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.

H361f Suspected of damaging fertility.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.  
H261 In contact with water releases flammable gases.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. — Flammable liquid  
Skin Corr. — Skin corrosion  
Eye Dam. — Serious eye damage  
Skin Sens. — Skin sensitization  
Asp. Tox. — Aspiration hazard  
Aquatic Chronic — Hazardous to the aquatic environment - chronic  
Water — react.-Substance or mixture which in contact with water emits flammable gas  
STOT SE — Specific target organ toxicity - single exposure - narcotic effects  
Repr. — Reproductive toxicity

### 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:

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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



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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)  
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:

**Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90**

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