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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 27.09.2022 / 0004  
Replacing version dated / version: 09.06.2022 / 0003  
Valid from: 27.09.2022  
PDF print date: 08.11.2022  
Ceramic Allround C0.02  
Art.: 506999

## 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 Allround C0.02**  
**Art.: 506999**

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

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

Coating

**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.                       |
| Acute Tox.      | 4               | H302-Harmful if swallowed.                              |
| 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. H302-Harmful if swallowed. 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.

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

Poly(dimethyl)[3-((2-aminoethyl)amino)propyl]methyl siloxane

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics

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

|  |             |
|--|-------------|
| <b>Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine</b> |             |
| <b>Registration number (REACH)</b>   | ---         |
| <b>Index</b>   | ---         |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>  | ---         |
| <b>CAS</b>   | 475645-84-2 |
| <b>content %</b>   | 25-<50      |

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|   |  |
|---|--|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Liq. 2, H225<br>Water-react. 3, H261<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |
|---|--|

|  |                             |
|--|-----------------------------|
| <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>  | ---  |
| <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-<20   |
| <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(dimethyl)[3-((2-aminoethyl)amino)propyl]methyl siloxane</b>           |   |
| <b>Registration number (REACH)</b>  | ---                                     |
| <b>Index</b>  | ---                                     |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | ---                                     |
| <b>CAS</b>  | 71750-79-3                              |
| <b>content %</b>  | 1-<2,5                                  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Irrit. 2, H315<br>Eye Dam. 1, H318 |

|   |  |
|---|--|
| <b>Octamethylcyclotetrasiloxane</b>   | <b>PBT-substance<br/>       vPvB-substance<br/>       SVHC-substance</b> |
| <b>Registration number (REACH)</b>  | ---  |
| <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>  | 0,01-<0,1  |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | 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.

## 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.

The following may occur:

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

Silicon dioxide

Ammonia

Oxides of nitrogen

Contact with water liberates extremely flammable gases.

Explosive vapour/air or gas/air mixtures.

### **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.

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.

GB IRL M

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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  
 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.

## 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/m<sup>3</sup>

| Chemical Name  | Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|--|--|-----|
| WEL-TWA: 1200 mg/m <sup>3</sup> (>=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: ---   |     |

| Chemical Name  | Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics   |     |
|--|--|-----|
| OELV-8h: 100 ppm (573 mg/m <sup>3</sup> ) ("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: ---   |     |

| Chemical Name   | n-butyl acetate  |     |
|---|--|-----|
| WEL-TWA: 150 ppm (724 mg/m <sup>3</sup> ) (WEL), 50 ppm (241 mg/m <sup>3</sup> ) (EU) | WEL-STEL: 200 ppm (966 mg/m <sup>3</sup> ) (WEL), 150 ppm (723 mg/m <sup>3</sup> ) (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: ---   |     |

| Chemical Name  | n-butyl acetate  |     |
|--|--|-----|
| OELV-8h: 50 ppm (241 mg/m <sup>3</sup> ) (OELV-8h, EU) | OELV-15min: 150 ppm (723 mg/m <sup>3</sup> ) (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: ---   |     |

| Chemical Name  | n-butyl acetate  |     |
|--|--|-----|
| OELV-8h: 50 ppm (241 mg/m <sup>3</sup> ) (OELV-8h, UE) | OELV-ST: 150 ppm (723 mg/m <sup>3</sup> ) (OELV-ST, UE)  | --- |
| 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> |  |                              |            |        |              |      |
|------------------------|--|------------------------------|------------|--------|--------------|------|
| Area of application    | Exposure route / Environmental compartment | Effect on health             | Descriptor | Value  | Unit         | Note |
|                        | 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> |  |                  |            |       |                  |      |
|-------------------------------------|--|------------------|------------|-------|------------------|------|
| Area of application                 | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit             | Note |
|                                     | Environment - freshwater                   |                  | PNEC       | 1,5   | µg/l             |      |
|                                     | Environment - marine                       |                  | PNEC       | 0,15  | µg/l             |      |
|                                     | Environment - sediment, freshwater         |                  | PNEC       | 3     | mg/kg dry weight |      |

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|                     |                                      |                              |      |      |                  |  |
|---------------------|--------------------------------------|------------------------------|------|------|------------------|--|
|                     | Environment - sediment, marine       |                              | PNEC | 0,3  | mg/kg dry weight |  |
|                     | Environment - soil                   |                              | PNEC | 0,54 | mg/l             |  |
|                     | Environment - sewage treatment plant |                              | PNEC | 10   | mg/l             |  |
|                     | Environment - oral (animal feed)     |                              | PNEC | 41   | mg/kg feed       |  |
| Consumer            | Human - inhalation                   | Long term, systemic effects  | DNEL | 13   | mg/m3            |  |
| Consumer            | Human - inhalation                   | Short term, systemic effects | DNEL | 13   | mg/m3            |  |
| Consumer            | Human - inhalation                   | Long term, local effects     | DNEL | 13   | mg/m3            |  |
| Consumer            | Human - inhalation                   | Short term, local effects    | DNEL | 13   | mg/m3            |  |
| Consumer            | Human - oral                         | Long term, systemic effects  | DNEL | 3,7  | mg/kg bw/day     |  |
| Consumer            | Human - oral                         | Short term, systemic effects | DNEL | 3,7  | mg/kg bw/day     |  |
| Workers / employees | Human - inhalation                   | Long term, systemic 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                   | Short term, local effects    | DNEL | 73   | mg/m3            |  |

Ⓒ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

Ⓓ OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction. (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BLV = Biological limit value | Other information: 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. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).



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OELV-8h = Occupational Exposure Limit Value - 8 h (8-hour reference period as a time-weighted average)  
[9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24).  
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |  
OELV-ST = Occupational Exposure Limit Value - Short-term (15-minute reference period)  
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).  
[8] = Short-term exposure limit value in relation to a reference period of 1 minute. (S.L.424.24), [9] = Inhalable fraction (S.L.424.24), [10] = Respirable fraction (S.L.424.24) |  
BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) |  
Other information: 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. (S.L.424.24), [12] = The mist is defined as the thoracic fraction. (S.L.424.24), [13] = Established in accordance with the Annex to Directive 91/322/EEC. (S.L.424.24), [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV. (S.L.424.24).  
(EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
Applies only if maximum permissible exposure values are listed here.  
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
These are specified by e.g. EN 14042.  
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

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

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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  |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:   | Mixture reacts with water.                           |
| Kinematic viscosity:                                      | 6 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.                           |

### 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

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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. |

#### 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) |                                |
| 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) |       |

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|   |       |        |                        |                        |  |   |
|---|-------|--------|------------------------|------------------------|--|---|
| 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 sensitising (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  |
| 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        | 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      |
| 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          |

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|   |       |      |       |     |   |   |
|---|-------|------|-------|-----|---|---|
| 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(dimethyl)[3-((2-aminoethyl)amino)propyl]methyl siloxane</b> |          |       |       |            |   |                                     |
|---|----------|-------|-------|------------|---|-------------------------------------|
| 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) |                                     |
| Skin corrosion/irritation:  |          |       |       | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)              | Skin Irrit. 2, Analogous conclusion |
| Serious eye damage/irritation:                                      |          |       |       | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)                 | Eye Dam. 1                          |
| Respiratory or skin sensitisation:                                  |          |       |       | Guinea pig | OECD 406 (Skin Sensitisation)                             | No (skin contact)                   |

| <b>Octamethylcyclotetrasiloxane</b> |          |       |         |            |  |                   |
|-------------------------------------|----------|-------|---------|------------|--|-------------------|
| Toxicity / effect                   | Endpoint | Value | Unit    | Organism   | Test method  | Notes             |
| Acute toxicity, by oral route:      | LD50     | >4800 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)                         | Male              |
| 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)                   | Aerosol           |
| Skin corrosion/irritation:          |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion)           | Not irritant      |
| Serious eye damage/irritation:      |          |       |         | Rat        | OECD 405 (Acute Eye Irritation/Corrosion)              | Not irritant      |
| Respiratory or skin sensitisation:  |          |       |         | Mouse      | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Respiratory or skin sensitisation:  |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                          | No (skin contact) |
| Germ cell mutagenicity:             |          |       |         |            |  | Negative          |
| Reproductive toxicity:              |          |       |         |            |  | Repr. 2           |

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|           |  |  |  |  |  |                            |
|-----------|--|--|--|--|--|----------------------------|
| Symptoms: |  |  |  |  |  | mucous membrane irritation |
|-----------|--|--|--|--|--|----------------------------|

### 11.2. Information on other hazards

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|--|----------|-------|------|----------|-------------|---|
| 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. |

| n-butyl acetate    |          |       |      |          |             |   |
|--------------------|----------|-------|------|----------|-------------|---|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes   |
| Other information: |          |       |      |          |             | Repeated exposure may cause skin dryness or cracking. |

## SECTION 12: Ecological information

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

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|--|----------|------|-------|------|----------|-------------|---|
| 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)>= 80%/28d: n.a.  |
| Other information:                       | AOX      |      |       | %    |          |             | According to the recipe, contains no AOX.                             |

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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 | Time | Value | Unit | Organism          | Test method                          | Notes |
|-------------------------|----------|------|-------|------|-------------------|--------------------------------------|-------|
| 12.1. Toxicity to fish: | LC50     | 96h  | 57,1  | mg/l | Brachydanio rerio | OECD 203 (Fish, Acute Toxicity Test) |       |

**Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics**

| Toxicity / effect                        | Endpoint  | Time | Value | Unit | Organism                        | Test method  | Notes                                       |
|--|-----------|------|-------|------|---------------------------------|--|---|
| Water solubility:                        |           |      |       |      |                                 |  | Insoluble                                   |
| 12.1. Toxicity to fish:                  | NOEC/NOEL | 28d  | >1000 | mg/l | Oncorhynchus mykiss             |  |   |
| 12.1. Toxicity to fish:                  | LC50      | 96h  | 1000  | mg/l | Oncorhynchus mykiss             | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion                        |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | 1000  | mg/l | Daphnia magna                   | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                        |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | >1000 | mg/l | Daphnia magna                   | QSAR   |   |
| 12.1. Toxicity to algae:                 | EC50      | 72h  | 1000  | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion                        |
| 12.1. Toxicity to algae:                 | NOELR     | 72h  | 1000  | mg/l | Raphidocelis subcapitata        |  | Analogous conclusion                        |
| 12.2. Persistence and degradability:     |           | 28d  | 67,6  | %    | activated sludge                | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable, Analogous conclusion |
| 12.5. Results of PBT and vPvB assessment |           |      |       |      |                                 |  | No PBT substance, No vPvB substance         |

**n-butyl acetate**

| Toxicity / effect            | Endpoint  | Time | Value | Unit | Organism                | Test method                                      | Notes                                |
|------------------------------|-----------|------|-------|------|-------------------------|--|--------------------------------------|
| 12.7. Other adverse effects: |           |      |       |      |                         |  | Product floats on the water surface. |
| 12.1. Toxicity to fish:      | LC50      | 96h  | 18    | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)             |                                      |
| 12.1. Toxicity to daphnia:   | EC50      | 48h  | 44    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test) |                                      |
| 12.1. Toxicity to daphnia:   | NOEC/NOEL | 21d  | 23    | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)       |                                      |
| 12.1. Toxicity to algae:     | EC50      | 72h  | 397   | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)          |                                      |
| 12.1. Toxicity to algae:     | NOEC/NOEL | 72h  | 200   | mg/l | Desmodesmus subspicatus |  |                                      |

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|  |         |     |          |      |                    |  |                                     |
|--|---------|-----|----------|------|--------------------|--|-------------------------------------|
| 12.2. Persistence and degradability:     |         | 28d | 98       | %    |                    | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable               |
| 12.3. Bioaccumulative potential:         | Log Pow |     | 1,78-2,3 |      |                    |  | Low                                 |
| 12.3. Bioaccumulative potential:         | BCF     |     | 15,3     |      |                    |  |                                     |
| 12.5. Results of PBT and vPvB assessment |         |     |          |      |                    |  | No PBT substance, No vPvB substance |
| Toxicity to bacteria:                    | EC10    |     | 959      | mg/l | Pseudomonas putida |  |                                     |

#### Octamethylcyclotetrasiloxane

| Toxicity / effect                    | Endpoint  | Time | Value  | Unit | Organism            | Test method  | Notes |
|--------------------------------------|-----------|------|--------|------|---------------------|--|-------|
| 12.3. Bioaccumulative potential:     | BCF       | 28d  | 12400  |      | Pimephales promelas |  |       |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 14d  | 0,0068 | mg/l |                     |  |       |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >500   | mg/l | Brachydanio rerio   |  |       |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >1000  | mg/l | Lepomis macrochirus |  |       |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >1000  | mg/l | Salmo gairdneri     |  |       |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 0,0079 | mg/l | Daphnia magna       |  |       |
| 12.1. Toxicity to algae:             | ErC10     | 96h  | 0,022  | mg/l |                     |  |       |
| 12.2. Persistence and degradability: |           |      | 3,7    | %    |                     | OECD 310 (Ready Biodegradability - CO2 in sealed vessels (Headspace Test)) | 29d   |
| 12.3. Bioaccumulative potential:     | Log Pow   |      | 6,98   |      |                     |  |       |
| Toxicity to bacteria:                | EC50      | 3h   | >10000 | mg/l | activated sludge    |  |       |

## 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.

Untampered packaging can be recycled.

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



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## SECTION 14: Transport information

### General statements

14.1. UN number or ID number: 2920

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

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)

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

14.4. Packing group: II

Classification code: CF1

LQ: 1 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D/E



### Transport by sea (IMDG-code)

14.2. UN proper shipping name:

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)

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

14.4. Packing group: II

EmS: F-E, S-C

Marine Pollutant: n.a

14.5. Environmental hazards: Not applicable



### Transport by air (IATA)

14.2. UN proper shipping name:

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)

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.):

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| 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): 15,1 %

Observe incident regulations.

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## 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.                 |
| Acute Tox. 4, H302  | Classification according to calculation procedure. |
| 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 (specified in Section 2 and 3).

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.  
 H315 Causes skin irritation.  
 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  
 Acute Tox. — Acute toxicity - oral  
 Skin Corr. — Skin corrosion  
 Eye Dam. — Serious eye damage  
 Skin Sens. — Skin sensitization

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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  
Skin Irrit. — Skin irritation  
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:

acc., acc. to according, according to  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ASTM ASTM International (American Society for Testing and Materials)  
ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BSEF The International Bromine Council  
bw body weight  
CAS Chemical Abstracts Service  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency  
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ErCx, 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

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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  
IUCID 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  
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. 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  
wwt wet weight

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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