



## Safety Data Sheet according to (EC) No 1907/2006 as amended

Page 1 of 21

LOCTITE SI 5980 BK CR300ML ML

SDS No.: 317263

V010.0

Revision: 17.03.2022

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

#### 1.1. Product identifier

LOCTITE SI 5980 BK CR300ML ML

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

Intended use:  
Silicone sealant

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

Henkel Ltd  
Adhesives  
Wood Lane End  
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/app/Selection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

#### 2.2. Label elements

##### Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

##### Supplemental information

Contains: Trimethoxyvinylsilane; 3-aminopropyltriethoxysilane May produce an allergic reaction.

Safety data sheet available on request.

**2.3. Other hazards**

None if used properly.

This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Self-classification according to Article 12(b) of (EU) 1272/2008.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

|                                          |          |
|------------------------------------------|----------|
| octamethylcyclotetrasiloxane<br>556-67-2 | PBT/vPvB |
|------------------------------------------|----------|

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.             | Concentration | Classification                                                                                                                            | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------|
| Hexamethyldisiloxane<br>107-46-0<br>203-492-7<br>01-2119496108-31         | 0,25- < 2,5 % | Flam. Liq. 2, H225<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                                                    | M acute = 1                               |                  |
| 3-aminopropyltriethoxysilane<br>919-30-2<br>213-048-4<br>01-2119480479-24 | 0,1- < 1 %    | Skin Sens. 1B, H317<br>Skin Corr. 1B, H314<br>Acute Tox. 4, Oral, H302                                                                    |                                           |                  |
| Trimethoxyvinylsilane<br>2768-02-7<br>220-449-8<br>01-2119513215-52       | 0,1- < 1 %    | Flam. Liq. 3, H226<br>Acute Tox. 4, Inhalation, H332<br>STOT RE 2, H373<br>Skin Sens. 1B, H317                                            |                                           |                  |
| Hexamethyldisilazane<br>999-97-3<br>213-668-5<br>01-2119438176-38         | 0,1- < 1 %    | Flam. Liq. 2, H225<br>Acute Tox. 4, Oral, H302<br>Acute Tox. 3, Dermal, H311<br>Acute Tox. 4, Inhalation, H332<br>Aquatic Chronic 3, H412 | inhalation:ATE = 10,1<br>mg/l;vapour      |                  |
| octamethylcyclotetrasiloxane<br>556-67-2<br>209-136-7<br>01-2119529238-36 | 0,01- < 0,1 % | Aquatic Chronic 1, H410<br>Repr. 2, H361f<br>Flam. Liq. 3, H226                                                                           | M chronic = 10                            | SVHC<br>PBT/vPvB |

**For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.**

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

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

See section: Description of first aid measures

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

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media:**

water, carbon dioxide, foam, powder

##### **Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

Silicon dioxide

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

##### **Additional information:**

In case of fire, keep containers cool with water spray.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

#### **6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Dispose of contaminated material as waste according to Section 13.

#### **6.4. Reference to other sections**

See advice in section 8

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Ensure good ventilation/extraction.

Refer to Technical Data Sheet

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**7.3. Specificenduse(s)**

Silicone sealant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                                                      | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|---------------------------------------------------------------------------------------|-----|-------------------|------------------------------|----------------------------------------------|-----------------|
| Limestone<br>1317-65-3<br>[CALCIUM CARBONATE, INHALABLE DUST]                         |     | 10                | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Limestone<br>1317-65-3<br>[CALCIUM CARBONATE, RESPIRABLE DUST]                        |     | 4                 | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Limestone<br>1317-65-3<br>[LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]                  |     | 4                 | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Limestone<br>1317-65-3<br>[LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE]        |     | 10                | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[CALCIUM CARBONATE, INHALABLE DUST]                  |     | 10                | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[CALCIUM CARBONATE, RESPIRABLE DUST]                 |     | 4                 | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE]           |     | 4                 | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] |     | 10                | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[Dust, inhalable dust]                               |     | 10                | Time Weighted Average (TWA): |                                              | EH40 WEL        |
| Calcium carbonate<br>471-34-1<br>[Dust, respirable dust]                              |     | 4                 | Time Weighted Average (TWA): |                                              | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]                     | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks | Regulatory list |
|------------------------------------------------------|-----|-------------------|------------------------------|----------------------------------------------|-----------------|
| Limestone<br>1317-65-3<br>[CALCIUM CARBONATE]        |     | 4                 | Time Weighted Average (TWA): |                                              | IR_OEL          |
| Limestone<br>1317-65-3<br>[CALCIUM CARBONATE]        |     | 10                | Time Weighted Average (TWA): |                                              | IR_OEL          |
| Calcium carbonate<br>471-34-1<br>[CALCIUM CARBONATE] |     | 4                 | Time Weighted Average (TWA): |                                              | IR_OEL          |
| Calcium carbonate<br>471-34-1<br>[CALCIUM CARBONATE] |     | 10                | Time Weighted Average (TWA): |                                              | IR_OEL          |
| Calcium carbonate<br>471-34-1<br>[DUST NON-SPECIFIC] |     | 4                 | Time Weighted Average (TWA): |                                              | IR_OEL          |
| Calcium carbonate                                    |     | 10                | Time Weighted Average        |                                              | IR_OEL          |

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|                                 |  |  |        |  |  |
|---------------------------------|--|--|--------|--|--|
| 471-34-1<br>[DUST/NOX-SPECIFIC] |  |  | (TWA): |  |  |
|---------------------------------|--|--|--------|--|--|

**Predicted No-Effect Concentration (PNEC):**

| Name on list                                 | Environmental<br>Compartment        | Exposure<br>period | Value           |     |                |        | Remarks |
|----------------------------------------------|-------------------------------------|--------------------|-----------------|-----|----------------|--------|---------|
|                                              |                                     |                    | mg/l            | ppm | mg/kg          | others |         |
| Hexamethyldisiloxane<br>107-46-0             | aqua<br>(freshwater)                |                    | 0,002 mg/l      |     |                |        |         |
| Hexamethyldisiloxane<br>107-46-0             | aqua (marine<br>water)              |                    | 0,0002<br>mg/l  |     |                |        |         |
| Hexamethyldisiloxane<br>107-46-0             | sediment<br>(freshwater)            |                    |                 |     | 0,37 mg/kg     |        |         |
| Hexamethyldisiloxane<br>107-46-0             | sediment<br>(marine water)          |                    |                 |     | 0,037<br>mg/kg |        |         |
| Hexamethyldisiloxane<br>107-46-0             | Soil                                |                    |                 |     | 0,073<br>mg/kg |        |         |
| Hexamethyldisiloxane<br>107-46-0             | Sewage<br>treatment plant           |                    | 10 mg/l         |     |                |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | aqua (marine<br>water)              |                    | 0,05 mg/l       |     |                |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | sediment<br>(marine water)          |                    |                 |     | 0,18 mg/kg     |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | Soil                                |                    |                 |     | 0,069<br>mg/kg |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | sewage<br>treatment plant<br>(ST P) |                    | 0,81 mg/l       |     |                |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | aqua<br>(freshwater)                |                    | 0,5 mg/l        |     |                |        |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | sediment<br>(freshwater)            |                    |                 |     | 1,8 mg/kg      |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | aqua<br>(freshwater)                |                    | 0,4 mg/l        |     |                |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | aqua (marine<br>water)              |                    | 0,04 mg/l       |     |                |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | Freshwater -<br>intermittent        |                    | 1,21 mg/l       |     |                |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | sediment<br>(freshwater)            |                    |                 |     | 1,5 mg/kg      |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | sediment<br>(marine water)          |                    |                 |     | 0,15 mg/kg     |        |         |
| Trimethoxyvinylsilane<br>2768-02-7           | Soil                                |                    |                 |     | 0,06 mg/kg     |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | aqua<br>(freshwater)                |                    | 0,25 mg/l       |     |                |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | aqua (marine<br>water)              |                    | 0,025 mg/l      |     |                |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | sediment<br>(freshwater)            |                    |                 |     | 0,45 mg/kg     |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | sediment<br>(marine water)          |                    |                 |     | 0,045<br>mg/kg |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Soil                                |                    |                 |     | 0,22 mg/kg     |        |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | sewage<br>treatment plant<br>(ST P) |                    | 67 mg/l         |     |                |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | aqua<br>(freshwater)                |                    | 0,0015<br>mg/l  |     |                |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | aqua (marine<br>water)              |                    | 0,00015<br>mg/l |     |                |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | sewage<br>treatment plant<br>(ST P) |                    | 10 mg/l         |     |                |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | sediment<br>(freshwater)            |                    |                 |     | 3 mg/kg        |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | sediment<br>(marine water)          |                    |                 |     | 0,3 mg/kg      |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | oral                                |                    |                 |     | 41 mg/kg       |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2     | Soil                                |                    |                 |     | 0,54 mg/kg     |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list                                 | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks |
|----------------------------------------------|--------------------|-------------------|----------------------------------------------|---------------|------------------------|---------|
| Hexamethyldisiloxane<br>107-46-0             | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 53,4 mg/m <sup>3</sup> |         |
| Hexamethyldisiloxane<br>107-46-0             | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 333 mg/kg              |         |
| Hexamethyldisiloxane<br>107-46-0             | Workers            | inhalation        | Long term exposure - systemic effects        |               | 53,4 mg/m <sup>3</sup> |         |
| Hexamethyldisiloxane<br>107-46-0             | Workers            | dermal            | Long term exposure - systemic effects        |               | 333 mg/kg              |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | inhalation        | Acute/short term exposure - systemic effects |               | 13,3 mg/m <sup>3</sup> |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | dermal            | Acute/short term exposure - systemic effects |               | 167 mg/kg              |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | oral              | Acute/short term exposure - systemic effects |               | 0,27 mg/kg             |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | inhalation        | Long term exposure - systemic effects        |               | 13,3 mg/m <sup>3</sup> |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | dermal            | Long term exposure - systemic effects        |               | 167 mg/kg              |         |
| Hexamethyldisiloxane<br>107-46-0             | General population | oral              | Long term exposure - systemic effects        |               | 0,27 mg/kg             |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | General population | oral              | Long term exposure - systemic effects        |               | 1 mg/kg                |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | General population | inhalation        | Long term exposure - systemic effects        |               | 3,5 mg/m <sup>3</sup>  |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | General population | dermal            | Long term exposure - systemic effects        |               | 1 mg/kg                |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | Workers            | inhalation        | Long term exposure - systemic effects        |               | 14 mg/m <sup>3</sup>   |         |
| 3-Aminopropyltriethoxysilane<br>919-30-2     | Workers            | dermal            | Long term exposure - systemic effects        |               | 2 mg/kg                |         |
| Trimethoxyvinylsilane<br>2768-02-7           | Workers            | dermal            | Long term exposure - systemic effects        |               | 3,9 mg/kg              |         |
| Trimethoxyvinylsilane<br>2768-02-7           | Workers            | inhalation        | Long term exposure - systemic effects        |               | 27,6 mg/m <sup>3</sup> |         |
| Trimethoxyvinylsilane<br>2768-02-7           | General population | dermal            | Long term exposure - systemic effects        |               | 7,8 mg/kg              |         |
| Trimethoxyvinylsilane<br>2768-02-7           | General population | inhalation        | Long term exposure - systemic effects        |               | 6,7 mg/m <sup>3</sup>  |         |
| Trimethoxyvinylsilane<br>2768-02-7           | General population | oral              | Long term exposure - systemic effects        |               | 0,3 mg/kg              |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 53 mg/m <sup>3</sup>   |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 53 mg/m <sup>3</sup>   |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | inhalation        | Long term exposure - local effects           |               | 133 mg/m <sup>3</sup>  |         |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | inhalation        | Acute/short term exposure - local            |               | 133 mg/m <sup>3</sup>  |         |

|                                              |                    |            | effects                                      |  |           |  |
|----------------------------------------------|--------------------|------------|----------------------------------------------|--|-----------|--|
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | dermal     | Long term exposure - systemic effects        |  | 7,5 mg/kg |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers            | dermal     | Acute/short term exposure - systemic effects |  | 7,5 mg/kg |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | inhalation | Long term exposure - systemic effects        |  | 3,7 mg/m3 |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | inhalation | Acute/short term exposure - systemic effects |  | 3,7 mg/m3 |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | inhalation | Long term exposure - local effects           |  | 1,7 mg/m3 |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | inhalation | Acute/short term exposure - local effects    |  | 1,7 mg/m3 |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | oral       | Long term exposure - systemic effects        |  | 1,1 mg/kg |  |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | oral       | Acute/short term exposure - systemic effects |  | 1,1 mg/kg |  |
| Octamethylcyclotetrasiloxane<br>556-67-2     | Workers            | inhalation | Long term exposure - systemic effects        |  | 73 mg/m3  |  |
| Octamethylcyclotetrasiloxane<br>556-67-2     | Workers            | inhalation | Long term exposure - local effects           |  | 73 mg/m3  |  |
| Octamethylcyclotetrasiloxane<br>556-67-2     | General population | inhalation | Long term exposure - systemic effects        |  | 13 mg/m3  |  |
| Octamethylcyclotetrasiloxane<br>556-67-2     | General population | inhalation | Long term exposure - local effects           |  | 13 mg/m3  |  |
| Octamethylcyclotetrasiloxane<br>556-67-2     | General population | oral       | Long term exposure - systemic effects        |  | 3,7 mg/kg |  |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; &gt;= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; &gt;= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.  
Protective eye equipment should conform to EN166.

**Skin protection:**

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

**Advices to personal protection equipment:**

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.  
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | liquid                   |
| Delivery form  | paste                    |
| Colour         | black                    |
| Odor           | alcohol-like             |
| Flash point    | > 100,00 °C (> 212 °F)   |
| pH             | Not available.           |
| Density        | 1,3200 g/cm <sup>3</sup> |
| ()             | None                     |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with oxidants, acids and lyes

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.  
Excessive heat.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

None if used for intended purpose.

## SECTION 11: Toxicological information

### General toxicological information:

Methanol released during polymerisation of RTV silicones is toxic by inhalation. It is also highly flammable

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value          | Species | Method                                                            |
|------------------------------------------|---------------|----------------|---------|-------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | LD50          | > 12.000 mg/kg | rat     | not specified                                                     |
| 3-aminopropyltriethoxysilane<br>919-30-2 | LD50          | 1.457 mg/kg    | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Trimethoxyvinylsilane<br>2768-02-7       | LD50          | 7.120 mg/kg    | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| Hexamethyldisilazane<br>999-97-3         | LD50          | 851 mg/kg      | rat     | OECD Guideline 401 (Acute Oral Toxicity)                          |
| octamethylcyclotetrasiloxane<br>556-67-2 | LD50          | > 4.800 mg/kg  | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value         | Species | Method                                                              |
|------------------------------------------|---------------|---------------|---------|---------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | LD50          | > 2.000 mg/kg | rat     | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | LD50          | 4.076 mg/kg   | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Trimethoxyvinylsilane<br>2768-02-7       | LD50          | 3.200 mg/kg   | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Hexamethyldisilazane<br>999-97-3         | LD50          | 547 mg/kg     | rat     | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| octamethylcyclotetrasiloxane<br>556-67-2 | LD50          | > 2.375 mg/kg | rat     | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type                 | Value       | Test atmosphere | Exposure<br>time | Species | Method                                         |
|------------------------------------------|-------------------------------|-------------|-----------------|------------------|---------|------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | LC50                          | 106 mg/l    | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | LC50                          | > 7,35 mg/l | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Trimethoxyvinylsilane<br>2768-02-7       | LC50                          | 16,8 mg/l   | vapour          | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hexamethyldisilazane<br>999-97-3         | Acute toxicity estimate (ATE) | 10,1 mg/l   | vapour          |                  |         | Expert judgement                               |
| octamethylcyclotetrasiloxane<br>556-67-2 | LC50                          | 36 mg/l     | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Result         | Exposure<br>time | Species | Method                                                                            |
|------------------------------------------|----------------|------------------|---------|-----------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | not irritating | 4 h              | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | corrosive      | 1 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |
| Trimethoxyvinylsilane<br>2768-02-7       | not irritating |                  | rabbit  | other guideline:                                                                  |
| octamethylcyclotetrasiloxane<br>556-67-2 | not irritating |                  | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Result            | Exposure<br>time | Species | Method                                                                         |
|------------------------------------------|-------------------|------------------|---------|--------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | not irritating    |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | highly irritating |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Trimethoxyvinylsilane<br>2768-02-7       | not irritating    |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |
| octamethylcyclotetrasiloxane<br>556-67-2 | not irritating    |                  | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| <b>Hazardous substances<br/>CAS-No.</b>  | <b>Result</b>                    | <b>Test type</b>                | <b>Species</b> | <b>Method</b>                           |
|------------------------------------------|----------------------------------|---------------------------------|----------------|-----------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | not sensitising                  |                                 | human          | Patch Test                              |
| 3-aminopropyltriethoxysilane<br>919-30-2 | Sub-Category 1B<br>(sensitising) | Buehler test                    | guinea pig     | OECD Guideline 406 (Skin Sensitisation) |
| Trimethoxyvinylsilane<br>2768-02-7       | sensitising                      | Buehler test                    | guinea pig     | OECD Guideline 406 (Skin Sensitisation) |
| octamethylcyclotetrasiloxane<br>556-67-2 | not sensitising                  | Guinea pig maximisation<br>test | guinea pig     | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| <b>Hazardous substances<br/>CAS-No.</b>          | <b>Result</b> | <b>Type of study/<br/>Route of<br/>administration</b>  | <b>Metabolic<br/>activation/<br/>Exposure time</b> | <b>Species</b> | <b>Method</b>                                                                                           |
|--------------------------------------------------|---------------|--------------------------------------------------------|----------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0                 | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                   |                | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                    |
| Hexamethyldisiloxane<br>107-46-0                 | negative      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                   |                | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)    |
| Hexamethyldisiloxane<br>107-46-0                 | negative      | mammalian cell<br>gene mutation assay                  | with and without                                   |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                   |
| 3-<br>aminopropyltriethoxysilan<br>e<br>919-30-2 | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                   |                | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| 3-<br>aminopropyltriethoxysilan<br>e<br>919-30-2 | negative      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                   |                | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                |
| 3-<br>aminopropyltriethoxysilan<br>e<br>919-30-2 | negative      | mammalian cell<br>gene mutation assay                  | with and without                                   |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                   |
| Trimethoxyvinylsilane<br>2768-02-7               | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                   |                | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| Trimethoxyvinylsilane<br>2768-02-7               | positive      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                   |                | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                |
| Trimethoxyvinylsilane<br>2768-02-7               | negative      | mammalian cell<br>gene mutation assay                  | with and without                                   |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                   |
| Hexamethyldisilazane<br>999-97-3                 | negative      | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                                   |                | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| Hexamethyldisilazane<br>999-97-3                 | negative      | mammalian cell<br>gene mutation assay                  | with and without                                   |                | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                   |
| octamethylcyclotetrasilox<br>ane<br>556-67-2     | negative      | bacterial gene<br>mutation assay                       | with and without                                   |                | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| octamethylcyclotetrasilox<br>ane<br>556-67-2     | negative      | in vitro mammalian<br>chromosome<br>aberration test    | with and without                                   |                | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)    |
| octamethylcyclotetrasilox<br>ane<br>556-67-2     | negative      | mammalian cell<br>gene mutation assay                  | with and without                                   |                | equivalent or similar to OECD<br>Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)       |
| Hexamethyldisiloxane<br>107-46-0                 | negative      | intraperitoneal                                        |                                                    | rat            | equivalent or similar to OECD<br>Guideline 475 (Mammalian<br>Bone Marrow Chromosome<br>Aberration Test) |
| 3-<br>aminopropyltriethoxysilan<br>e<br>919-30-2 | negative      | intraperitoneal                                        |                                                    | mouse          | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                      |
| Trimethoxyvinylsilane<br>2768-02-7               | negative      | intraperitoneal                                        |                                                    | mouse          | other guideline:                                                                                        |
| octamethylcyclotetrasilox<br>ane<br>556-67-2     | negative      | inhalation                                             |                                                    | rat            | equivalent or similar to OECD<br>Guideline 475 (Mammalian<br>Bone Marrow Chromosome<br>Aberration Test) |
| octamethylcyclotetrasilox<br>ane<br>556-67-2     | negative      | oral: gavage                                           |                                                    | rat            | equivalent or similar to OECD<br>Guideline 478 (Genetic<br>Toxicology: Rodent Dominant<br>Lethal Test)  |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.          | Result / Value                      | Test type            | Route of application | Species | Method                                                                                                              |
|---------------------------------------|-------------------------------------|----------------------|----------------------|---------|---------------------------------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane 107-46-0         | NOAEL P >= 5000 ppm                 | two-generation study | inhalation: vapour   | rat     | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)                                                     |
| Trimethoxyvinylsilane 2768-02-7       | NOAEL P 250 mg/kg                   | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7       | NOAEL P 1.000 mg/kg                 | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7       | NOAEL F1 1.000 mg/kg                | one-generation study | oral: gavage         | rat     | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL P 300 ppm<br>NOAEL F1 300 ppm | two-generation study | inhalation           | rat     | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)                            |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.          | Result / Value     | Route of application | Exposure time / Frequency of treatment                  | Species | Method                                                                                                                   |
|---------------------------------------|--------------------|----------------------|---------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane 107-46-0         | NOAEL 160 mg/kg    | oral: gavage         | 28 d<br>once daily (7d/w)                               | rat     | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)                                                       |
| 3-aminopropyltriethoxysilane 919-30-2 | NOAEL 200 mg/kg    | oral: gavage         | 90 d<br>daily                                           | rat     | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)                                                       |
| Trimethoxyvinylsilane 2768-02-7       | NOAEL < 62,5 mg/kg | oral: gavage         | 42d<br>daily                                            | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Trimethoxyvinylsilane 2768-02-7       | NOAEL 0,605 mg/l   | inhalation: vapour   | 5 days/week for 14 weeks<br>6 hours/day                 | rat     | not specified                                                                                                            |
| octamethylcyclotetrasiloxane 556-67-2 | LOAEL 35 ppm       | inhalation           | 6 h nose only<br>inhalation<br>5 days/week for 13 weeks | rat     | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)                                                        |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL 960 mg/kg    | dermal               | 3 w<br>5 d/w                                            | rabbit  | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)                             |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains / surface water / ground water.

Self-classification according to Article 12(b) of (EU) 1272/2008.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value                       | Exposure time | Species                                         | Method                                                   |
|------------------------------------------|---------------|-----------------------------|---------------|-------------------------------------------------|----------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | LC50          | 0,46 mg/l                   | 96 h          | Oncorhynchus mykiss                             | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Hexamethyldisiloxane<br>107-46-0         | NOEC          | > 0,027 mg/l                | 90 d          | Oncorhynchus mykiss                             | OECD Guideline 210 (fish early life stage toxicity test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | LC50          | > 934 mg/l                  | 96 h          | Brachydanio rerio (new name: Danio rerio)       | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Trimethoxyvinylsilane<br>2768-02-7       | LC50          | 191 mg/l                    | 96 h          | Oncorhynchus mykiss                             | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Hexamethyldisilazane<br>999-97-3         | LC50          | 88 mg/l                     | 96 h          | Brachydanio rerio (new name: Danio rerio)       | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| octamethylcyclotetrasiloxane<br>556-67-2 | NOEC          | 0,0044 mg/l                 | 93 d          | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | LC50          | Toxicity > Water solubility | 96 h          | Oncorhynchus mykiss                             | EPA OTS 797.1400 (Fish Acute Toxicity Test)              |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value                       | Exposure time | Species       | Method                                                                           |
|------------------------------------------|---------------|-----------------------------|---------------|---------------|----------------------------------------------------------------------------------|
| 3-aminopropyltriethoxysilane<br>919-30-2 | EC50          | 331 mg/l                    | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| Trimethoxyvinylsilane<br>2768-02-7       | EC50          | 168,7 mg/l                  | 48 h          | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia)                                       |
| Hexamethyldisilazane<br>999-97-3         | EC50          | 80 mg/l                     | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| octamethylcyclotetrasiloxane<br>556-67-2 | EC50          | Toxicity > Water solubility | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value     | Exposure time | Species       | Method                                           |
|------------------------------------------|---------------|-----------|---------------|---------------|--------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | NOEC          | 0,08 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Trimethoxyvinylsilane<br>2768-02-7       | NOEC          | 28,1 mg/l | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| octamethylcyclotetrasiloxane<br>556-67-2 | NOEC          | 7,9 µg/l  | 21 d          | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |

#### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value                          | Exposure time | Species                                                                     | Method                                               |
|------------------------------------------|---------------|--------------------------------|---------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | EC50          | Toxicity > Water<br>solubility | 70 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| Hexamethyldisiloxane<br>107-46-0         | EC10          | 0,09 mg/l                      | 70 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | EC50          | > 1.000 mg/l                   | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | NOEC          | 1,3 mg/l                       | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| Trimethoxyvinylsilane<br>2768-02-7       | EC50          | > 957 mg/l                     | 72 h          | Desmodesmus subspicatus                                                     | EU Method C.3 (Algal<br>Inhibition test)             |
| Trimethoxyvinylsilane<br>2768-02-7       | NOEC          | 957 mg/l                       | 72 h          | Desmodesmus subspicatus                                                     | EU Method C.3 (Algal<br>Inhibition test)             |
| Hexamethyldisilazane<br>999-97-3         | NOEC          | 2,7 mg/l                       | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| Hexamethyldisilazane<br>999-97-3         | EC50          | 19 mg/l                        | 72 h          | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)           | OECD Guideline 201 (Algal<br>Growth Inhibition Test) |
| octamethylcyclotetrasiloxane<br>556-67-2 | EC50          | Toxicity > Water<br>solubility | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | EPA OTS 797.1050 (Algal<br>Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane<br>556-67-2 | EC10          | 0,022 mg/l                     | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | EPA OTS 797.1050 (Algal<br>Toxicity, Tiers I and II) |

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Value<br>type | Value                          | Exposure time | Species                                                | Method                                                                            |
|------------------------------------------|---------------|--------------------------------|---------------|--------------------------------------------------------|-----------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | EC50          | Toxicity > Water<br>solubility | 3 h           | activated sludge, domestic                             | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test)          |
| 3-aminopropyltriethoxysilane<br>919-30-2 | EC10          | 13 mg/l                        | 5 h           | not specified                                          | other guideline:                                                                  |
| Trimethoxyvinylsilane<br>2768-02-7       | EC50          | > 100 mg/l                     | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test)          |
| octamethylcyclotetrasiloxane<br>556-67-2 | EC50          | Toxicity > Water<br>solubility | 3 h           | activated sludge                                       | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |

#### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.          | Result                     | Test type | Degradability | Exposure<br>time | Method                                                                                                                   |
|------------------------------------------|----------------------------|-----------|---------------|------------------|--------------------------------------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | not readily biodegradable. | aerobic   | 2 %           | 28 d             | OECD Guideline 301 C (Ready<br>Biodegradability: Modified MITI<br>Test (I))                                              |
| 3-aminopropyltriethoxysilane<br>919-30-2 | not readily biodegradable. | aerobic   | 67 %          | 28 d             | EU Method C.4-A (Determination<br>of the "Ready"<br>Biodegradability Dissolved<br>Organic Carbon (DOC) Die-Away<br>Test) |
| Trimethoxyvinylsilane<br>2768-02-7       | not readily biodegradable. | aerobic   | 51 %          | 28 d             | OECD Guideline 301 F (Ready<br>Biodegradability: Manometric<br>Respirometry Test)                                        |
| Hexamethyldisilazane<br>999-97-3         | not readily biodegradable. | no data   | 15,3 %        | 28 d             | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)                                                  |
| octamethylcyclotetrasiloxane<br>556-67-2 | not readily biodegradable. | aerobic   | 3,7 %         | 29 d             | OECD Guideline 310 (Ready<br>Biodegradability CO2 in Sealed<br>Vessels (Headspace Test))                                 |

**12.3. Bioaccumulative potential**

| Hazardous substances<br>CAS-No.          | Bioconcentration factor (BCF) | Exposure time | Temperature | Species             | Method                                                                                     |
|------------------------------------------|-------------------------------|---------------|-------------|---------------------|--------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | 776 - 2.410                   | 70 d          |             | Cyprinus carpio     | OECD Guideline 305 C<br>(Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| octamethylcyclotetrasiloxane<br>556-67-2 | 12.400                        | 28 d          |             | Pimephales promelas | EPA OTS 797.1520 (Fish Bioconcentration Test -Rainbow Trout)                               |

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No.          | LogPow | Temperature | Method                                                                               |
|------------------------------------------|--------|-------------|--------------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | 5,06   | 20 °C       | other guideline:                                                                     |
| octamethylcyclotetrasiloxane<br>556-67-2 | 6,488  | 25,1 °C     | OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method) |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.          | PBT/ vPvB                                                                                                             |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Hexamethyldisiloxane<br>107-46-0         | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 3-aminopropyltriethoxysilane<br>919-30-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Trimethoxyvinylsilane<br>2768-02-7       | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hexamethyldisilazane<br>999-97-3         | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| octamethylcyclotetrasiloxane<br>556-67-2 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.     |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product disposal:

Do not empty into drains / surface water / ground water.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09\* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

**SECTION 14: Transport information****14.1. UN number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.2. UN proper shipping name**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.3. Transport hazard class(es)**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.4. Packing group**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.5. Environmental hazards**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

**14.6. Special precautions for user**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Not applicable

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021): Not applicable

VOC content < 5 %  
(2010/75/EC)

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.  
H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H361f Suspected of damaging fertility.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| ED:         | Substance identified as having endocrine disrupting properties                                                    |
| EU OEL:     | Substance with a Union workplace exposure limit                                                                   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148                                                               |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148                                                              |
| SVHC:       | Substance of very high concern (REACH Candidate List)                                                             |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria                                               |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria                                            |

**Further information:**

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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