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



SDS No. : 152790
V005.0

LOCTITE SI 5970 BK CR50ML EN/DE

Revision: 27.01.2026
printing date: 29.01.2026
Replaces version from: 09.04.2024

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

**1.1. Product identifier**

LOCTITE SI 5970 BK CR50ML EN/DE
UFI: No UFI required

**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 AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

**1.4. Emergency telephone number**

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

## 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.

**Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

| | |
|---|---|
| Octamethylcyclotetrasiloxane<br>556-67-2 | PBT<br>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 No<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 | 0,22- < 2,2 % | Flam. Liq. 2, H225<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 | M acute = 1 | |
| Hexamethyldisilizane<br>999-97-3<br>213-668-5<br>01-2119438176-38 | 1- < 3 % | Flam. Liq. 2, H225<br>Acute Tox. 4, H302<br>Acute Tox. 3, H311<br>Acute Tox. 4, H332<br>Aquatic Chronic 3, H412 | inhalation:ATE = 10,1 mg/l;vapour | |
| 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, 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, H332<br>Skin Sens. 1B, H317 | | |
| 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<br>PBT EUH440<br>vPvB EUH441 | M chronic = 10 | SVHC<br>PBT<br>vPvB |

**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.**
**For full text of the H - statements and other abbreviations see section 16 "Other information".**

## 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 (CO2) and nitrogen oxides (NOx) 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.
Wear protective equipment.
Ensure adequate ventilation.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Dispose of contaminated material as waste according to Section 13.
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.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
See advice in section 8
Avoid skin and eye contact.

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**
Protect against contamination.
Store in sealed original container.
Ensure good ventilation/extraction.
Store in a cool, well-ventilated place.
Refer to Technical Data Sheet.
Never allow product to get in contact with water during storage

**7.3. Specific end use(s)**
Silicone sealant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Germany

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Limestone<br>1317-65-3 | | 10 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone<br>1317-65-3 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone<br>1317-65-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Calcium carbonate<br>471-34-1 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Calcium carbonate<br>471-34-1 | | 10 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Calcium carbonate<br>471-34-1 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 | | 10 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 | | 1 | Exposure limit(s): | 8<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silane, dichlorodimethyl-, reaction products with silica<br>7631-86-9 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Carbon black<br>1333-86-4 | | 10 | Exposure limit(s): | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Carbon black<br>1333-86-4 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |

| | | | | | |
|---|---|---|---|---|---|
| Carbon black<br>1333-86-4 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |

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

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| Hexamethyldisiloxane 107-46-0 | aqua (freshwater) | | 0,002 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | aqua (marine water) | | 0 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | sediment (freshwater) | | | | 8,9 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | sediment (marine water) | | | | 0,89 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | Soil | | | | 0,083 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | Sewage treatment plant | | 10 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | Freshwater - intermittent | | 0,003 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | oral | | | | 5,3 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | sediment (freshwater) | | | | 0,97 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | sediment (marine water) | | | | 0,097 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Soil | | | | 0,12 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | sewage treatment plant (STP) | | 5 mg/l | | | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | aqua (marine water) | | 0,003 mg/l | | | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | aqua (freshwater) | | 0,12 mg/l | | | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | oral | | | | 27 mg/kg | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | aqua (marine water) | | 0,05 mg/l | | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | sediment (marine water) | | | | 0,18 mg/kg | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | Soil | | | | 0,069 mg/kg | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | sewage treatment plant (STP) | | 0,81 mg/l | | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | aqua (freshwater) | | 0,5 mg/l | | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | sediment (freshwater) | | | | 1,8 mg/kg | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | aqua (intermittent releases) | | 2,05 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (freshwater) | | 0,4 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | 0,04 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | Freshwater - intermittent | | 1,21 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (freshwater) | | | | 1,5 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (marine water) | | | | 0,15 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | Soil | | | | 0,06 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (freshwater) | | 0,0015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (marine water) | | 0,00015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sewage treatment plant (STP) | | 10 mg/l | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (freshwater) | | | | 3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (marine water) | | | | 0,3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | oral | | | | 41 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | Soil | | | | 4,2 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 | Long term exposure - systemic effects | | 53,4 mg/m3 | |
| Hexamethyldisiloxane<br>107-46-0 | Workers | dermal | Long term exposure - systemic effects | | 333 mg/kg | |
| Hexamethyldisiloxane<br>107-46-0 | General population | inhalation | Long term exposure - systemic effects | | 13,3 mg/m3 | |
| 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 | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | inhalation | Long term exposure - systemic effects | | 53 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | inhalation | Acute/short term exposure - systemic effects | | 106 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | inhalation | Long term exposure - local effects | | 133 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | inhalation | Acute/short term exposure - local effects | | 341 mg/m3 | |
| 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 | | | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | inhalation | Long term exposure - systemic effects | | 3,6 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | General population | oral | Long term exposure - systemic effects | | 0,4 mg/kg | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | dermal | Long term exposure - local effects | | | |
| 1,1,1,3,3,3-Hexamethyldisilazane<br>999-97-3 | Workers | dermal | Acute/short term exposure - local effects | | | |
| 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/m3 | |
| 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/m3 | |
| 3-Aminopropyltriethoxysilane<br>919-30-2 | Workers | dermal | Long term exposure - systemic effects | | 2 mg/kg | |
| 3-Aminopropyltriethoxysilane<br>919-30-2 | Workers | inhalation | Long term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane<br>919-30-2 | Workers | inhalation | Acute/short term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane<br>919-30-2 | Workers | dermal | Long term exposure - local | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | effects | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | Workers | dermal | Acute/short term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | General population | inhalation | Long term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | General population | inhalation | Acute/short term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | General population | dermal | Long term exposure - local effects | | | |
| 3-Aminopropyltriethoxysilane 919-30-2 | General population | dermal | Acute/short term exposure - local effects | | | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - systemic effects | | 0,91 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Long term exposure - systemic effects | | 27,6 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Long term exposure - systemic effects | | 6,8 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | oral | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 73,6 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 54,4 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - local effects | | | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Acute/short term exposure - local effects | | | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - local effects | | | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Acute/short term exposure - local effects | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - systemic effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - local effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - systemic effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - local effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 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 > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 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**

| | |
|---|---|
| Delivery form | paste |
| Colour | Black |
| Odor | Alcohol |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | < -40 °C (< -40 °F) |
| Initial boiling point | > 100 °C (> 212 °F) |
| Flammability | The product is not flammable. |
| Explosive limits | Not applicable, The product is not flammable. |
| Flash point | > 100 °C (> 212 °F) |
| Auto-ignition temperature | Not applicable, The product is not flammable. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic)<br>(40 °C (104 °F); ) | > 20,5 mm2/s |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Polymerises in presence of water. |
| Partition coefficient: n-octanol/water | Not applicable |

| | |
|---|---|
| | Mixture |
| Vapour pressure (25 °C (77 °F)) | < 5 mm hg |
| Density (25 °C (77 °F)) | 1,4 g/cm3 None |
| Relative vapour density: (20 °C) | > 1 |
| Particle characteristics | Not applicable<br>Product is a liquid |

**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

**11.1 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | LD50 | > 12.000 mg/kg | rat | not specified |
| Hexamethyldisilizane<br>999-97-3 | LD50 | 851 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | LD50 | 1.457 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Trimethoxyvinylsilane<br>2768-02-7 | LD50 | 6.899 mg/kg | rat | equivalent or similar to 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Value 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) |
| Hexamethyldisilizane<br>999-97-3 | LD50 | 547 mg/kg | rat | 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 | 3.158 mg/kg | rabbit | equivalent or similar to 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | LC50 | 106 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hexamethyldisilizane<br>999-97-3 | Acute toxicity estimate (ATE) | 10,1 mg/l | vapour | | | Expert judgement |
| 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 | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Result | Exposure 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Result | Exposure 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.

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

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

| | | | | | |
|---|---|---|---|---|---|
| Octamethylcyclotetrasiloxane<br>556-67-2 | negative | oral: gavage | | rat | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant 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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | NOAEL P >= 5000 ppm | two-generation study | inhalation: vapour | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Trimethoxyvinylsilane<br>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<br>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<br>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<br>556-67-2 | NOAEL P 300 ppm<br><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.

Based on available data, the classification criteria are not met.

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>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<br>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<br>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<br>2768-02-7 | NOAEL 0,605 mg/l | inhalation: vapour | 5 days/week for 14 weeks<br>6 hours/day | rat | not specified |
| Trimethoxyvinylsilane<br>2768-02-7 | NOAEL 50 mg/kg | oral: gavage | 28 d<br>daily | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | LOAEL 35 ppm | inhalation | 6 h nose only inhalation<br>5 days/week for 13 weeks | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| Octamethylcyclotetrasiloxane<br>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**

**11.2.1 Endocrine disrupting properties**

No data available.

## SECTION 12: Ecological information

**General ecological information:**

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

**12.1. Toxicity**

**Toxicity (Fish):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value 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) |
| Hexamethyldisilizane<br>999-97-3 | LC50 | 88 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute 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) |
| 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 (aquatic invertebrates):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hexamethyldisilizane<br>999-97-3 | EC50 | 80 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 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) |
| 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 (aquatic invertebrates):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value 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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | EC50 | Toxicity > Water solubility | 70 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hexamethyldisiloxane<br>107-46-0 | EC10 | 0,09 mg/l | 70 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hexamethyldisilizane<br>999-97-3 | EC10 | 7,5 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| Hexamethyldisilizane<br>999-97-3 | EC50 | 50 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | EC50 | > 1.000 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | NOEC | 1,3 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Trimethoxyvinylsilane<br>2768-02-7 | EC50 | > 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Trimethoxyvinylsilane<br>2768-02-7 | NOEC | 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | EC50 | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | EC10 | 0,022 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |

**Toxicity (microorganisms):**

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | EC50 | Toxicity > Water solubility | 3 h | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, 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 predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | EC50 | Toxicity > Water solubility | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

**12.2. Persistence and degradability**

**Biodegradability (Screening Tests):**
The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | not readily biodegradable. | aerobic | 2 % | 28 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Hexamethyldisilizane<br>999-97-3 | not readily biodegradable. | no data | 15,3 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| 3-aminopropyltriethoxysilane<br>919-30-2 | not readily biodegradable. | aerobic | 67 % | 28 d | EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test) |
| Trimethoxyvinylsilane<br>2768-02-7 | not readily biodegradable. | aerobic | 51 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | not readily biodegradable. | aerobic | 3,7 % | 29 d | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |

**(Bio)degradability (Simulation Tests):**
The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Environmental Compartment | DT50 | Temperature | Method |
|---|---|---|---|---|
| Octamethylcyclotetrasiloxane<br>556-67-2 | Fresh water sediment | 242 d | | OECD Test Guideline 308 |

**12.3. Bioaccumulative potential**

**Partition Coefficient (octanol/water)**
The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method |
|---|---|---|---|
| Hexamethyldisiloxane<br>107-46-0 | 5,06 | 20 °C | other guideline: |
| Octamethylcyclotetrasiloxane<br>556-67-2 | 6,98 | 21,7 °C | other guideline: |

**Bioconcentration factor (BCF)**
The table below presents the data of the classified substances present in the mixture.

| 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 (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**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | LogKoc | pH | Method |
|---|---|---|---|
| Octamethylcyclotetrasiloxane<br>556-67-2 | 4,22 | | OECD Guideline 106 (OECD 106: Adsorption - Desorption using a Batch Equilibrium Method) |

**12.5. Results of PBT / vPvB / PMT / vPvM assessment**

**PBT/vPvB**
The following table contains only substances that fulfill the criteria as PBT and/or vPvB.
The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | PBT | vPvB |
|---|---|---|
| Octamethylcyclotetrasiloxane<br>556-67-2 | Fulfilling PBT criteria | very Persistent and very Bioaccumulative (vPvB) |

**PMT/vPvM**
This mixture does not contain any substances that are assessed to be a PMT or vPvM.
Based on available data, the classification criteria are not met.

**12.6. Endocrine disrupting properties**

No data available.

**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 10 Waste adhesives and sealants other than those mentioned in 08 04 09.
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 or ID 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 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

| | |
|---|---|
| VOC content (2010/75/EC) | < 5 % |
| Seveso III (2012/18/EU): | Not applicable |

**National regulations/information (Germany):**

| | |
|---|---|
| WGK: | WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )<br>Classification according to AwSV, Annex 1 (5.2) |
| Storage class according to TRGS 510: | 10 |

**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:

EUH440 Accumulates in the environment and living organisms including in humans.
EUH441 Strongly accumulates in the environment and living organisms including in humans.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
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.
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.

Abbreviations and acronyms:

ADG(-Code): Australian Dangerous Goods (Code)
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM: American Society for Testing and Materials
ATE: acute toxicity estimate
AS: Australian Standard
AwSV: Ordinance on Installations for the Handling of Substances Hazardous to Water
CAS: Chemical Abstract Service
CLP: Regulation (EC) No 1272/2008
CMR: cancerogenic, mutagenic or reprotoxic
DIN: German Institute for Standardization
ECx: Effective concentration (x% effective level)
ECHA: European Chemicals Agency
EC-Nummer: Substance number in the EU-inventories EINECS/ELINCS
ECTLV: European community threshold limit value
ED:Substance identified as having endocrine disrupting properties
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EN : European Standard
ENCS: Japanese chemical inventory
EPA: US Environmental Protection Agency
EU: European Union
EU EXPLD1: Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD2: Substance listed in Annex II, Reg (EC) No. 2019/1148
EWC: European Waste Catalogue
GHS: Globally Harmonised System for Classification and Labelling of Chemicals
GLP: Good Laboratory Practice
HSNO: Hazardous Substances and New Organisms
IARC: International Agency for Research of Cancer
IATA: International Air Transport Association
IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization
IMDG-Code: International Maritime Code for Dangerous Goods
IMO: International Maritime Organization
ISO: International Standardization Organisation
LC50: Median lethal concentration
LD50: Median lethal dose
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
n.o.s.: not otherwise specified
NO(A)EC: No (adverse) effect concentration
NO(A)EL: No (adverse) effect level
NZS: New Zealand Standard
OECD: Organisation for Economic Co-operation and Development

OEL: Occupational Exposure Limit
OPPT: US EPA Office of Pollution Prevention and Toxics
OPPTS: US EPA Office of Prevention, Pesticides and Toxic Substances
PBT: Persistent, bioaccumulative, toxic
PMT: Persistent, mobile and toxic
(Q)SAR: (Quantitative) structure–activity relationship
REACH: Regulation (EC) No. 1907/2006
RID: Regulations concerning the International Transport of Dangerous Goods by Rail
SADT: Self Accelerating Decomposition Temperature
SDS: Safety Data Sheet
STOT: Specific Target Organ Toxicity
STOT SE: Specific Target Organ Toxicity - single exposure
STOT RE: Specific Target Organ Toxicity - repeated exposure
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons
SVHC: Substance of very high concern (REACH Candidate List)
TRGS: German Technical Rules for hazardous substances
UN: United Nations
VOC: Volatile Organic Compound
814.018 VOC Reg CH: Swiss Ordinance 814.018 on the Incentive Tax on Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative
vPvM: Very persistent and very mobile
VwVwS: Administrative Regulation on Substances Hazardous to Waters
WGK: Water hazard class

**Further information:**

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