



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

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LOCTITE SI 5367 WH CR310ML EN/D

SDS No. : 164827  
V001.1

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

#### 1.1. Product identifier

LOCTITE SI 5367 WH CR310ML EN/D

#### 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 Ireland  
Operations and Research Limited  
Tallaght Business Park, Whitestown  
24 Dublin

Ireland

Phone: +353 (0353) 1 404 6444

HRADublin@henkel.com

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

#### 1.4. Emergency telephone number

00353 14046280

National Poisons Information Centre: Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)  
Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

### SECTION 2: Hazards identification

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

##### Classification (CLP):

Skin irritation

Category 2

H315 Causes skin irritation.

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

#### 2.2. Label elements

##### Label elements (CLP):

Hazard pictogram:



|                                 |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| <b>Signal word:</b>             | Warning                                                             |
| <b>Hazard statement:</b>        | H315 Causes skin irritation.<br>H319 Causes serious eye irritation. |
| <b>Precautionary statement:</b> | P302+P352 IF ON SKIN: Wash with plenty of soap and water.           |
| <b>Response</b>                 | P337+P313 If eye irritation persists: Get medical advice/attention. |

### 2.3. Other hazards

None if used properly.  
 Evolves acetic acid during cure.  
 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 |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | PBT/vPvB |
| Decamethylcyclopentasiloxane<br>541-02-6  | 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 |
|------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------|-------------------------------------------|------------------|
| Methyltriacetoxysilane<br>4253-34-3<br>224-221-9<br>01-2119962266-32<br>01-2119987097-22 | 1- < 3 %      | Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Acute Tox. 4, Oral, H302 |                                           |                  |
| octamethylcyclotetrasiloxane<br>556-67-2<br>209-136-7<br>01-2119529238-36                | 1- < 3 %      | Aquatic Chronic 1, H410<br>Repr. 2, H361f<br>Flam. Liq. 3, H226     | M chronic = 10                            | SVHC<br>PBT/vPvB |
| Dodecamethylcyclohexasiloxane<br>540-97-6<br>208-762-8<br>01-2119517435-42               | 0,1- < 1 %    | Aquatic Chronic 4, H413                                             |                                           | SVHC<br>PBT/vPvB |
| Decamethylcyclopentasiloxane<br>541-02-6<br>208-764-9<br>01-2119511367-43                | 0,1- < 1 %    |                                                                     |                                           | 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:**

IF ON SKIN: Wash with plenty of soap and water.

Seek medical advice.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Do not induce vomiting.

Seek medical advice.

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

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

**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:**

Carbon dioxide, foam, powder

Fine water spray

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

None known

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

Do not expose to direct heat.

carbon oxides.

Silica fume

Formaldehyde

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

**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**

Scrape up as much material as possible.

Ensure adequate ventilation.

Store in a partly filled, closed container until 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**

Vapours should be extracted to avoid inhalation.  
Ensure that workrooms are adequately ventilated.  
Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

Wash hands before work breaks and after finishing work.  
Do not eat, drink or smoke while working.  
Good industrial hygiene practices should be observed.

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

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  
Ireland

None

**Occupational Exposure Limits**

Valid for  
Great Britain

None

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

| Name on list                              | Environmental<br>Compartment       | Exposure<br>period | Value           |     |            |        | Remarks |
|-------------------------------------------|------------------------------------|--------------------|-----------------|-----|------------|--------|---------|
|                                           |                                    |                    | mg/l            | ppm | mg/kg      | others |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | aqua<br>(freshwater)               |                    | 1,0 mg/l        |     |            |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | aqua (marine<br>water)             |                    | 0,1 mg/l        |     |            |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | aqua<br>(intermittent<br>releases) |                    | 10 mg/l         |     |            |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | sediment<br>(freshwater)           |                    |                 |     | 0,80 mg/kg |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | sediment<br>(marine water)         |                    |                 |     | 0,08 mg/kg |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | Soil                               |                    |                 |     | 0,13 mg/kg |        |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | sewage<br>treatment plant<br>(STP) |                    | > 10 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>(STP) |                    | 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 |        |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | sediment<br>(freshwater)           |                    |                 |     | 13,5 mg/kg |        |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | oral                               |                    |                 |     | 66,7 mg/kg |        |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | sediment<br>(marine water)         |                    |                 |     | 1,35 mg/kg |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | aqua<br>(freshwater)               |                    | 0,0012<br>mg/l  |     |            |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | aqua (marine<br>water)             |                    | 0,00012<br>mg/l |     |            |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | sewage<br>treatment plant<br>(STP) |                    | 10 mg/l         |     |            |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | sediment<br>(freshwater)           |                    |                 |     | 11 mg/kg   |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | Soil                               |                    |                 |     | 2,54 mg/kg |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | oral                               |                    |                 |     | 16 mg/kg   |        |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | sediment<br>(marine water)         |                    |                 |     | 1,1 mg/kg  |        |         |

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

| Name on list                              | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value      | Remarks |
|-------------------------------------------|--------------------|-------------------|----------------------------------------------|---------------|------------|---------|
| Methylsilanetriyl triacetate<br>4253-34-3 | Workers            | inhalation        | Long term exposure - systemic effects        |               | 25 mg/m3   |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | Workers            | inhalation        | Acute/short term exposure - systemic effects |               | 25 mg/m3   |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | Workers            | dermal            | Long term exposure - systemic effects        |               | 14,5 mg/kg |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | Workers            | dermal            | Acute/short term exposure - systemic effects |               | 14,5 mg/kg |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | inhalation        | Long term exposure - local effects           |               | 5,1 mg/m3  |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | inhalation        | Acute/short term exposure - local effects    |               | 5,1 mg/m3  |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | dermal            | Long term exposure - systemic effects        |               | 7,2 mg/kg  |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | dermal            | Acute/short term exposure - systemic effects |               | 7,2 mg/kg  |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | oral              | Long term exposure - systemic effects        |               | 1 mg/kg    |         |
| Methylsilanetriyl triacetate<br>4253-34-3 | General population | oral              | Acute/short term exposure - systemic effects |               | 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  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | Workers            | inhalation        | Long term exposure - local effects           |               | 1,22 mg/m3 |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 6,1 mg/m3  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | General population | inhalation        | Long term exposure - local effects           |               | 0,3 mg/m3  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | General population | inhalation        | Acute/short term exposure - local effects    |               | 1,5 mg/m3  |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | Workers            | inhalation        | Long term exposure - systemic effects        |               | 97,3 mg/m3 |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | Workers            | inhalation        | Long term exposure - local effects           |               | 24,2 mg/m3 |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | General population | oral              | Long term exposure - systemic effects        |               | 5 mg/kg    |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | General population | inhalation        | Long term exposure - systemic effects        |               | 17,3 mg/m3 |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | General population | inhalation        | Long term exposure - local                   |               | 4,3 mg/m3  |         |

|  |  |  |         |  |  |  |
|--|--|--|---------|--|--|--|
|  |  |  | effects |  |  |  |
|--|--|--|---------|--|--|--|

**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)

This recommendation should be matched to local conditions.

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:

Wear protective glasses.

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.

|                                                    |
|----------------------------------------------------|
| <b>SECTION 9: Physical and chemical properties</b> |
|----------------------------------------------------|

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

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Physical state           | liquid                                             |
| Delivery form            | white                                              |
| Colour                   |                                                    |
| Odor                     | Acetic acid                                        |
| Initial boiling point    | Not determined                                     |
| Flash point              | > 150 °C (> 302 °F)                                |
| pH                       | Not applicable, Product is non-soluble (in water). |
| Solubility (qualitative) | Partially soluble                                  |
| (Solvent: Water)         |                                                    |
| Solubility (qualitative) | Insoluble                                          |
| (Solvent: Acetone)       |                                                    |
| Vapour pressure          | < 0,1 mm hg                                        |
| Density                  | 1,04 g/cm3                                         |
| ()                       | None                                               |

**9.2. Other information**

Other information not applicable for this product

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Strong oxidizing agents.

Polymerises in presence of water.

**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.

**10.5. Incompatible materials**

See section reactivity.

**10.6. Hazardous decomposition products**

Evolves acetic acid during cure.

At higher temperatures (>150C) may release formaldehyde (traces).

**SECTION 11: Toxicological information****General toxicological information:**

Acetic acid is liberated slowly upon contact with moisture.

Acetic acid released during polymerisation of acetoxy curing RTV silicones is irritating to the eyes

**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                                                            |
|-------------------------------------------|---------------|---------------|---------|-------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | LD50          | 1.600 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) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| Decamethylcyclopentasiloxane<br>541-02-6  | LD50          | > 5.000 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                                                              |
|-------------------------------------------|---------------|---------------|---------|---------------------------------------------------------------------|
| octamethylcyclotetrasiloxane<br>556-67-2  | LD50          | > 2.375 mg/kg | rat     | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | LD50          | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Decamethylcyclopentasiloxane<br>541-02-6  | LD50          | > 2.000 mg/kg | rabbit  | 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                                         |
|------------------------------------------|---------------|-----------|-----------------|------------------|---------|------------------------------------------------|
| octamethylcyclotetrasiloxane<br>556-67-2 | LC50          | 36 mg/l   | dust/mist       | 4 h              | rat     | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Decamethylcyclopentasiloxane<br>541-02-6 | LC50          | 8,67 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                                                                            |
|-------------------------------------------|----------------|------------------|---------|-----------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | corrosive      | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |
| octamethylcyclotetrasiloxane<br>556-67-2  | not irritating |                  | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not irritating | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |
| Decamethylcyclopentasiloxane<br>541-02-6  | not irritating | 24 h             | 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                                                                         |
|-------------------------------------------|-------------------------------------------------|------------------|---------|--------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | Category 1<br>(irreversible effects on the eye) |                  | 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) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not irritating                                  |                  | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |
| Decamethylcyclopentasiloxane<br>541-02-6  | 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>                                                                                  |
|-------------------------------------------|-----------------|---------------------------------------|----------------|------------------------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | not sensitising | Guinea pig maximisation<br>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)                                                        |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not sensitising | Guinea pig maximisation<br>test       | guinea pig     | OECD Guideline 406 (Skin Sensitisation)                                                        |
| Decamethylcyclopentasiloxane<br>541-02-6  | not sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse          | equivalent or similar to OECD Guideline<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |

**Germ cell mutagenicity:**

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

| Hazardous substances<br>CAS-No.               | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method                                                                                                  |
|-----------------------------------------------|----------|--------------------------------------------------------|--------------------------------------------|---------|---------------------------------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3           | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| Methyltriacetoxysilane<br>4253-34-3           | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                |
| Methyltriacetoxysilane<br>4253-34-3           | 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)       |
| Dodecamethylcyclohexasi<br>loxane<br>540-97-6 | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| Dodecamethylcyclohexasi<br>loxane<br>540-97-6 | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                   |
| Decamethylcyclopentasilox<br>ane<br>541-02-6  | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)                                             |
| Decamethylcyclopentasilox<br>ane<br>541-02-6  | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                                |
| Decamethylcyclopentasilox<br>ane<br>541-02-6  | 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)       |
| 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)  |
| Dodecamethylcyclohexasi<br>loxane<br>540-97-6 | negative | intraperitoneal                                        |                                            | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                      |
| Decamethylcyclopentasilox<br>ane<br>541-02-6  | negative | inhalation                                             |                                            | rat     | OECD Guideline 486<br>(Unscheduled DNA Synthesis<br>(UDS) Test with Mammalian<br>Liver Cells in vivo)   |
| Decamethylcyclopentasilox<br>ane<br>541-02-6  | negative | inhalation: vapour                                     |                                            | rat     | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)                                      |

**Carcinogenicity**

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

| Hazardous components<br>CAS-No.              | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method                                                                    |
|----------------------------------------------|------------------|-------------------------|-------------------------------------------------|---------|-------------|---------------------------------------------------------------------------|
| Decamethylcyclopentasilox<br>ane<br>541-02-6 | not carcinogenic | inhalation:<br>vapour   | 2 y<br>6 h/d, 5 d/w                             | rat     | male/female | EPA OPPTS 870.4300<br>(Combined Chronic<br>Toxicity /<br>Carcinogenicity) |

**Reproductive toxicity:**

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

| Hazardous substances<br>CAS-No.           | Result / Value                                                                        | Test type                   | Route of<br>application | Species | Method                                                                                                                                  |
|-------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------|-------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | NOAEL P $\geq$ 1.000 mg/kg<br>NOAEL F1 $\geq$ 1.000 mg/kg                             | screening                   | oral: gavage            | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| octamethylcyclotetrasiloxane<br>556-67-2  | NOAEL P 300 ppm<br>NOAEL F1 300 ppm                                                   | two-<br>generation<br>study | inhalation              | rat     | equivalent or similar to<br>OECD Guideline 416 (Two-<br>Generation Reproduction<br>Toxicity Study)                                      |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | NOAEL P 1.000 mg/kg<br>NOAEL F1 1.000 mg/kg                                           | screening                   | oral: gavage            | rat     | OECD Guideline 422<br>(Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL P $\geq$ 2,496 mg/l<br>NOAEL F1 $\geq$ 2,496 mg/l<br>NOAEL F2 $\geq$ 2,496 mg/l | two-<br>generation<br>study | inhalation:<br>vapour   | rat     | EPA OPPTS 870.3800<br>(Reproduction and Fertility<br>Effects)                                                                           |

**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<br>CAS-No.           | Result / Value          | Route of<br>application | Exposure time /<br>Frequency of<br>treatment               | Species | Method                                                                                                                                  |
|-------------------------------------------|-------------------------|-------------------------|------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | NOAEL 50 mg/kg          | oral: gavage            | 28-51 d<br>daily                                           | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| octamethylcyclotetrasiloxane<br>556-67-2  | LOAEL 35 ppm            | inhalation              | 6 h nose only<br>inhalation<br>5 days/week for 13<br>weeks | rat     | OECD Guideline 412<br>(Repeated Dose<br>Inhalation Toxicity:<br>28/14-Day)                                                              |
| octamethylcyclotetrasiloxane<br>556-67-2  | NOAEL 960 mg/kg         | dermal                  | 3 w<br>5 d/w                                               | rabbit  | equivalent or similar to<br>OECD Guideline 410<br>(Repeated Dose Dermal<br>Toxicity: 21/28-Day<br>Study)                                |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | NOAEL 1.000 mg/kg       | oral: gavage            | 29 d<br>daily, 7 d/w                                       | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL >= 1.000<br>mg/kg | oral: gavage            | 13 w<br>daily                                              | rat     | OECD Guideline 408<br>(Repeated Dose 90-Day<br>Oral Toxicity in Rodents)                                                                |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL >= 2,42 mg/l      | inhalation:<br>vapour   | 2 y<br>6 h/d, 5 d/w                                        | rat     | equivalent or similar to<br>OECD Guideline 453<br>(Combined Chronic<br>Toxicity / Carcinogenicity<br>Studies)                           |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL >= 1.600<br>mg/kg | oral: gavage            | 28 d<br>6 h/d, 7 d/w                                       | rat     | equivalent or similar to<br>OECD Guideline 410<br>(Repeated Dose Dermal<br>Toxicity: 21/28-Day<br>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.

Cured Loctite products are typical polymers and do not pose any immediate environmental hazards.

In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used.

Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.

### 12.1. Toxicity

#### Toxicity (Fish):

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

| Hazardous substances CAS-No.           | Value type | Value                       | Exposure time | Species                                         | Method                                                           |
|----------------------------------------|------------|-----------------------------|---------------|-------------------------------------------------|------------------------------------------------------------------|
| Methyltriacetoxysilane 4253-34-3       | LC50       | > 110 mg/l                  | 96 h          | Oncorhynchus mykiss                             | OECD Guideline 203 (Fish, Acute Toxicity Test)                   |
| octamethylcyclotetrasiloxane 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 556-67-2  | LC50       | Toxicity > Water solubility | 96 h          | Oncorhynchus mykiss                             | EPA OTS 797.1400 (Fish Acute Toxicity Test)                      |
| Dodecamethylcyclohexasiloxane 540-97-6 | NOEC       | Toxicity > Water solubility | 90 d          | Oncorhynchus mykiss                             | OECD Guideline 210 (fish early life stage toxicity test)         |
| Decamethylcyclopentasiloxane 541-02-6  | LC50       | Toxicity > Water solubility | 96 h          | Leuciscus idus                                  | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Decamethylcyclopentasiloxane 541-02-6  | NOEC       | Toxicity > Water solubility | 90 d          | Oncorhynchus mykiss                             | OECD Guideline 210 (fish early life stage toxicity test)         |

#### Toxicity (Daphnia):

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

| Hazardous substances CAS-No.          | Value type | Value                       | Exposure time | Species       | Method                                                                           |
|---------------------------------------|------------|-----------------------------|---------------|---------------|----------------------------------------------------------------------------------|
| octamethylcyclotetrasiloxane 556-67-2 | EC50       | Toxicity > Water solubility | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Decamethylcyclopentasiloxane 541-02-6 | EC50       | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |

#### Chronic toxicity to aquatic invertebrates

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

| Hazardous substances CAS-No.           | Value type | Value                       | Exposure time | Species       | Method                                           |
|----------------------------------------|------------|-----------------------------|---------------|---------------|--------------------------------------------------|
| octamethylcyclotetrasiloxane 556-67-2  | NOEC       | 7.9 µg/l                    | 21 d          | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |
| Dodecamethylcyclohexasiloxane 540-97-6 | NOEC       | Toxicity > Water solubility | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Decamethylcyclopentasiloxane 541-02-6  | NOEC       | Toxicity > Water solubility | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction 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                                               |
|-------------------------------------------|---------------|--------------------------------|---------------|-----------------------------------------------------------------------------|------------------------------------------------------|
| 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) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | NOEC          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | EC50          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata                                             | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOEC          | Toxicity > Water<br>solubility | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | EC50          | Toxicity > Water<br>solubility | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

#### 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                                                                                 |
|------------------------------------------|---------------|--------------------------------|---------------|----------------------------|----------------------------------------------------------------------------------------|
| 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)      |
| Decamethylcyclopentasiloxane<br>541-02-6 | EC50          | > 2.000 mg/l                   | 3 h           | activated sludge, domestic | EU Method C.11<br>(Biodegradation: Activated<br>Sludge Respiration<br>Inhibition Test) |

#### 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.           | Result                     | Test type | Degradability | Exposure<br>time | Method                                                                                             |
|-------------------------------------------|----------------------------|-----------|---------------|------------------|----------------------------------------------------------------------------------------------------|
| octamethylcyclotetrasiloxane<br>556-67-2  | not readily biodegradable. | aerobic   | 3,7 %         | 29 d             | OECD Guideline 310 (Ready<br>BiodegradabilityCO <sub>2</sub> in Sealed<br>Vessels (Headspace Test) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not readily biodegradable. | aerobic   | 4,47 %        | 28 d             | OECD Guideline 310 (Ready<br>BiodegradabilityCO <sub>2</sub> in Sealed<br>Vessels (Headspace Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | not readily biodegradable. | aerobic   | 0,14 %        | 28 d             | OECD Guideline 310 (Ready<br>BiodegradabilityCO <sub>2</sub> in Sealed<br>Vessels (Headspace Test) |

#### 12.3. Bioaccumulative potential

| Hazardous substances<br>CAS-No.           | Bioconcentration<br>factor (BCF) | Exposure time | Temperature | Species                | Method                                                              |
|-------------------------------------------|----------------------------------|---------------|-------------|------------------------|---------------------------------------------------------------------|
| octamethylcyclotetrasiloxane<br>556-67-2  | 12.400                           | 28 d          |             | Pimephales<br>promelas | EPA OTS 797.1520 (Fish<br>Bioconcentration Test-Rainbow<br>Trout)   |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 1.160                            | 49 d          |             | Pimephales<br>promelas | OECD Guideline 305<br>(Bioconcentration: Flow-through<br>Fish Test) |
| Decamethylcyclopentasiloxane<br>541-02-6  | 7.060                            | 35 d          |             | Pimephales<br>promelas | OECD Guideline 305<br>(Bioconcentration: Flow-through<br>Fish Test) |

#### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.           | LogPow | Temperature | Method                                                                               |
|-------------------------------------------|--------|-------------|--------------------------------------------------------------------------------------|
| octamethylcyclotetrasiloxane<br>556-67-2  | 6,488  | 25,1 °C     | OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-Stirring Method) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 8,87   | 23,6 °C     | other guideline:                                                                     |
| Decamethylcyclopentasiloxane<br>541-02-6  | 8,07   | 24,6 °C     | other guideline:                                                                     |

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

| Hazardous substances<br>CAS-No.           | PBT / vPvB                                                                                                            |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Methyltriacetoxysilane<br>4253-34-3       | 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.     |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.     |
| Decamethylcyclopentasiloxane<br>541-02-6  | 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:

Dispose of in accordance with local and national regulations.

Collection and delivery to recycling enterprise or other registered elimination institution.

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.

Disposal must be made according to official regulations.

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:

H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H361f Suspected of damaging fertility.  
H410 Very toxic to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

|             |                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------|
| 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                                            |

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