



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

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LOCTITE SI 595 CL TB100ML EGFD

SDS No. : 162662  
V007.0

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

#### 1.1. Product identifier

LOCTITE SI 595 CL TB100ML EGFD

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

Intended use:  
Silicone sealant

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

Henkel Ltd  
Adhesives  
Wood Lane End  
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@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

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

### SECTION 2: Hazards identification

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

##### Classification (CLP):

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

#### 2.2. Label elements

##### Label elements (CLP):

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

**Supplemental information** Safety data sheet available on request.

#### 2.3. Other hazards

None if used properly.  
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.  
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 |
| Decamethylcyclopentasiloxane<br>541-02-6  | PBT/vPvB |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 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 |
|--|------------------------------|---|---|------------------|
| octamethylcyclotetrasiloxane<br>556-67-2<br>209-136-7<br>01-2119529238-36  | $\geq 0,21 - \leq 0,29$<br>% | Aquatic Chronic 1, H410<br>Repr. 2, H361f<br>Flam. Liq. 3, H226 | M chronic = 10                            | SVHC<br>PBT/vPvB |
| Decamethylcyclopentasiloxane<br>541-02-6<br>208-764-9<br>01-2119511367-43  | $\geq 0,21 - \leq 0,31$<br>% |   |   | SVHC<br>PBT/vPvB |
| Dodecamethylcyclohexasiloxane<br>540-97-6<br>208-762-8<br>01-2119517435-42 | $\geq 0,36 - \leq 0,44$<br>% | Aquatic Chronic 4, H413   |   | SVHC<br>PBT/vPvB |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation:

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

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

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

Ingestion:

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

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

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

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

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.

### 6.2. Environmental precautions

Do not let product enter drains.

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

Scrape up as much material as possible.  
Store in a partly filled, closed container until disposal.

### 6.4. Reference to other sections

See advice in section 8

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Use only in well-ventilated areas.  
Vapours should be extracted to avoid inhalation.  
Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

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

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

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  
Great Britain

None

#### Occupational Exposure Limits

Valid for  
Ireland

None

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

| Name on list                              | Environmental<br>Compartment       | Exposure<br>period | Value           |     |            |        | Remarks |
|---|------------------------------------|--------------------|-----------------|-----|------------|--------|---------|
|   |                                    |                    | mg/l            | ppm | mg/kg      | others |         |
| 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 |        |         |
| 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  |        |         |
| 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 |        |         |

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

| Name on list                              | Application Area   | Route of Exposure | Health Effect                             | Exposure Time | Value                  | Remarks |
|---|--------------------|-------------------|---|---------------|------------------------|---------|
| Octamethylcyclotetrasiloxane<br>556-67-2  | Workers            | inhalation        | Long term exposure - systemic effects     |               | 73 mg/m <sup>3</sup>   |         |
| Octamethylcyclotetrasiloxane<br>556-67-2  | Workers            | inhalation        | Long term exposure - local effects        |               | 73 mg/m <sup>3</sup>   |         |
| Octamethylcyclotetrasiloxane<br>556-67-2  | General population | inhalation        | Long term exposure - systemic effects     |               | 13 mg/m <sup>3</sup>   |         |
| Octamethylcyclotetrasiloxane<br>556-67-2  | General population | inhalation        | Long term exposure - local effects        |               | 13 mg/m <sup>3</sup>   |         |
| Octamethylcyclotetrasiloxane<br>556-67-2  | General population | oral              | Long term exposure - systemic effects     |               | 3,7 mg/kg              |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | Workers            | inhalation        | Long term exposure - systemic effects     |               | 97,3 mg/m <sup>3</sup> |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | Workers            | inhalation        | Long term exposure - local effects        |               | 24,2 mg/m <sup>3</sup> |         |
| 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/m <sup>3</sup> |         |
| Decamethylcyclopentasiloxane<br>541-02-6  | General population | inhalation        | Long term exposure - local effects        |               | 4,3 mg/m <sup>3</sup>  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | Workers            | inhalation        | Long term exposure - local effects        |               | 1,22 mg/m <sup>3</sup> |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | Workers            | inhalation        | Acute/short term exposure - local effects |               | 6,1 mg/m <sup>3</sup>  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | General population | inhalation        | Long term exposure - local effects        |               | 0,3 mg/m <sup>3</sup>  |         |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | General population | inhalation        | Acute/short term exposure - local effects |               | 1,5 mg/m <sup>3</sup>  |         |

**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;  $\geq$  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;  $\geq$  0.4 mm thickness)

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

**Eye protection:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Protective eye equipment should conform to EN166.

**Skin protection:**

Wear suitable protective clothing.

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

**Advices to personal protection equipment:**

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

Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|  |                                   |
|--|-----------------------------------|
| Physical state                                 | solid                             |
| Delivery form                                  | solid                             |
| Colour   | colourless                        |
| Odor   | of acetic acid                    |
| Melting point                                  | Currently under determination     |
| Initial boiling point                          | Not determined                    |
| Flammability                                   | The product is not flammable.     |
| Explosive limits                               | Currently under determination     |
| Flash point                                    | > 100 °C (> 212 °F); Closed cup   |
| Auto-ignition temperature                      | Currently under determination     |
| Decomposition temperature                      | Currently under determination     |
| pH   | Not applicable                    |
| Viscosity (kinematic)                          | Currently under determination     |
| Solubility (qualitative)                       | Polymerises in presence of water. |
| Solubility (qualitative)<br>(Solvent: Acetone) | Insoluble                         |
| Partition coefficient: n-octanol/water         | Not applicable                    |
|  | Mixture                           |
| Vapour pressure                                | Not determined                    |
| Density  | 1,02 g/cm <sup>3</sup> None       |
| ()   |                                   |
| Relative vapour density:                       | Currently under determination     |
| Particle characteristics                       | Currently under determination     |

**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

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

Acetic acid is liberated slowly upon contact with moisture.

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

## SECTION 11: Toxicological information

### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

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

##### Acute oral toxicity:

This material is considered to have low toxicity if swallowed.

| Hazardous substances<br>CAS-No.           | Value<br>type | Value         | Species | Method  |
|---|---------------|---------------|---------|---|
| octamethylcyclotetrasiloxane<br>556-67-2  | LD50          | > 4.800 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Decamethylcyclopentasiloxane<br>541-02-6  | LD50          | > 5.000 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)                          |

##### 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) |
| Decamethylcyclopentasiloxane<br>541-02-6  | LD50          | > 2.000 mg/kg | rabbit  | 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)                          |

**Acute inhalative toxicity:**

Acetic acid is liberated slowly upon contact with moisture.

Inhalation of vapors in high concentration may cause irritation of respiratory system

| 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:**

Prolonged or repeated contact may cause skin irritation.

| Hazardous substances<br>CAS-No.           | Result         | Exposure<br>time | Species | Method  |
|---|----------------|------------------|---------|---|
| octamethylcyclotetrasiloxane<br>556-67-2  | not irritating |                  | rabbit  | equivalent or similar to 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) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not irritating | 4 h              | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |

**Serious eye damage/irritation:**

Prolonged or repeated contact may cause eye irritation.

| Hazardous substances<br>CAS-No.           | Result         | Exposure<br>time | Species | Method   |
|---|----------------|------------------|---------|--|
| octamethylcyclotetrasiloxane<br>556-67-2  | not irritating |                  | rabbit  | equivalent or similar to 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) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | not irritating |                  | rabbit  | 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.

| Hazardous substances<br>CAS-No.           | Result          | Test type                          | Species    | Method   |
|---|-----------------|------------------------------------|------------|--|
| octamethylcyclotetrasiloxane<br>556-67-2  | not sensitising | Guinea pig maximisation test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)  |
| Decamethylcyclopentasiloxane<br>541-02-6  | not sensitising | Mouse local lymphnode assay (LLNA) | mouse      | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 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.

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

**Carcinogenicity**

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

| Hazardous components CAS-No.             | Result           | Route of application | Exposure time / Frequency of treatment | Species | Sex         | Method   |
|--|------------------|----------------------|--|---------|-------------|--|
| Decamethylcyclopentasiloxane<br>541-02-6 | not carcinogenic | inhalation: vapour   | 2 y<br>6 h/d, 5 d/w                    | rat     | male/female | EPA OPPTS 870.4300 (Combined Chronic Toxicity / 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 application  | Species | Method   |
|---|---|----------------------|-----------------------|---------|--|
| octamethylcyclotetrasiloxane<br>556-67-2  | NOAEL P 300 ppm<br>NOAEL F1 300 ppm                                       | two-generation study | inhalation            | rat     | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)                                 |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL P >= 2,496 mg/l<br>NOAEL F1 >= 2,496 mg/l<br>NOAEL F2 >= 2,496 mg/l | two-generation study | inhalation:<br>vapour | rat     | EPA OPPTS 870.3800 (Reproduction and Fertility Effects)  |
| 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 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

**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 application  | Exposure time / Frequency of treatment               | Species | Method   |
|---|----------------------|-----------------------|--|---------|--|
| 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)                             |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL >= 1.000 mg/kg | oral: gavage          | 13 w<br>daily  | rat     | OECD Guideline 408 (Repeated Dose 90-Day 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 OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)                        |
| Decamethylcyclopentasiloxane<br>541-02-6  | NOAEL >= 1.600 mg/kg | oral: gavage          | 28 d<br>6 h/d, 7 d/w                                 | rat     | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)                             |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | NOAEL 1.000 mg/kg    | oral: gavage          | 29 d<br>daily, 7 d/w                                 | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

### 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   |
|--|------------|-----------------------------|---------------|---|--|
| 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)                      |
| 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)         |
| Dodecamethylcyclohexasiloxane 540-97-6 | 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) |
| Decamethylcyclopentasiloxane 541-02-6  | NOEC       | Toxicity > Water solubility | 21 d          | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test)      |
| Dodecamethylcyclohexasiloxane 540-97-6 | 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 CAS-No.           | Value type | Value                       | Exposure time | Species   | Method  |
|--|------------|-----------------------------|---------------|---|---|
| octamethylcyclotetrasiloxane 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 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) |
| Decamethylcyclopentasiloxane 541-02-6  | NOEC       | Toxicity > Water solubility | 96 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Decamethylcyclopentasiloxane 541-02-6  | EC50       | Toxicity > Water solubility | 96 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dodecamethylcyclohexasiloxane 540-97-6 | NOEC       | Toxicity > Water solubility | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dodecamethylcyclohexasiloxane 540-97-6 | EC50       | Toxicity > Water solubility | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, 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 CAS-No.          | Value type | Value                       | Exposure time | Species                    | Method  |
|---------------------------------------|------------|-----------------------------|---------------|----------------------------|---|
| octamethylcyclotetrasiloxane 556-67-2 | EC50       | Toxicity > Water solubility | 3 h           | activated sludge           | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)      |
| Decamethylcyclopentasiloxane 541-02-6 | EC50       | > 2.000 mg/l                | 3 h           | activated sludge, domestic | EU Method C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test) |

### 12.2. Persistence and degradability

The product is not biodegradable.

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

### 12.3. Bioaccumulative potential

No data available.

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

**12.4. Mobility in soil**

Cured adhesives are immobile.

| Hazardous substances<br>CAS-No.           | LogPow | Temperature | Method           |
|---|--------|-------------|------------------|
| octamethylcyclotetrasiloxane<br>556-67-2  | 6,98   | 21,7 °C     | other guideline: |
| Decamethylcyclopentasiloxane<br>541-02-6  | 8,07   | 24,6 °C     | other guideline: |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 8,87   | 23,6 °C     | other guideline: |

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

| Hazardous substances<br>CAS-No.           | PBT / vPvB  |
|---|---|
| octamethylcyclotetrasiloxane<br>556-67-2  | 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. |
| Dodecamethylcyclohexasiloxane<br>540-97-6 | 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

**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<br>(2010/75/EC)                                     | < 5 %          |

**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 vapour.  
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  |

**Further information:**

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