



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

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Sista Universal F109 Fusion transparent

SDS No. : 619976  
V005.0

Revision: 30.03.2026

printing date: 31.03.2026

Replaces version from: 18.12.2024

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

#### 1.1. Product identifier

Sista Universal F109 Fusion transparent

UFI: No UFI required

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

Intended use:

Joint sealant, silicone

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

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website [www.mysds.henkel.com](http://www.mysds.henkel.com) or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

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

Further information is available at Poison Control Centers.

### SECTION 2: Hazards identification

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

##### Classification (CLP):

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

#### 2.2. Label elements

##### Label elements (CLP):

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

**Supplemental information**      Contains: N,N-Dimethyl-3-(trimethoxysilyl)propylamine May produce an allergic reaction.

**Precautionary statement:**      P102 Keep out of reach of children.  
P101 If medical advice is needed, have product container or label at hand.  
P262 Do not get in eyes, on skin, or on clothing.

### 2.3. Other hazards

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

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

|  |             |
|--|-------------|
| Octamethylcyclotetrasiloxane<br>556-67-2 | PBT<br>vPvB |
|--|-------------|

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

| Hazardous components<br>CAS No.<br>EC No<br>REACH-Reg. No.                                | Concentration                          | Classification   | Specific Conc. Limits, M-factors and ATEs | Add. Information    |
|---|--|--|---|---------------------|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1<br>219-786-3<br>01-2120753783-46 | 0,1 - < 1 %                            | Eye Dam. 1, H318<br>Skin Sens. 1B, H317  | oral:ATE = 2.500 mg/kg                    |                     |
| Diocetyl tin dilaurate<br>3648-18-8<br>222-883-3<br>01-2119979527-19                      | 0,1 - < 0,3 %                          | Repr. 1B, H360D<br>STOT RE 1, H372   |   | SVHC                |
| Octamethylcyclotetrasiloxane<br>556-67-2<br>209-136-7<br>01-2119529238-36                 | 0,025 - < 0,25 %<br>(0,25 ‰ - < 2,5 ‰) | Aquatic Chronic 1, H410<br>Repr. 2, H361f<br>Flam. Liq. 3, H226<br>PBT EUH440<br>vPvB EUH441 | M chronic = 10                            | SVHC<br>PBT<br>vPvB |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:  
In case of adverse health effects seek medical advice.

Inhalation:  
Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

No data available.

#### **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, water spray jet, fine water spray

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

High pressure waterjet

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

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

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

Wear self-contained breathing apparatus.

Wear protective equipment.

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

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

Wear protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

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

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

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

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

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

See advice in section 8

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

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

Avoid skin and eye contact.

Ensure that workrooms are adequately ventilated.

Hygiene measures:

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, frost-free place.

Store in a dry place.

Storage at 0 to 30°C is recommended.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

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

Joint sealant, silicone

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

| Ingredient [Regulated substance]    | ppm   | mg/m <sup>3</sup> | Value type                          | Short term exposure limit category / Remarks   | Regulatory list |
|-------------------------------------|-------|-------------------|-------------------------------------|--|-----------------|
| Silicon dioxide<br>112945-52-5      |       | 1,25              | Exposure limit(s):                  | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).      | TRGS 900        |
| Silicon dioxide<br>112945-52-5      |       | 10                | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Silicon dioxide<br>112945-52-5      |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Silicon dioxide<br>112945-52-5      |       | 1                 | Exposure limit(s):                  | 8<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Silicon dioxide<br>112945-52-5      |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| methanol<br>67-56-1<br>[Methanol]   | 200   | 260               | Time Weighted Average (TWA):        | Indicative   | ECLTV           |
| methanol<br>67-56-1                 |       |                   | Skin designation:                   | Can be absorbed through the skin.  | TRGS 900        |
| methanol<br>67-56-1                 | 100   | 130               | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| methanol<br>67-56-1                 |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| methanol<br>67-56-1<br>[Methanol]   |       |                   | Skin designation:                   | Can be absorbed through the skin.  | ECLTV           |
| Diocetyl tin dilaurate<br>3648-18-8 |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |
| Diocetyl tin dilaurate<br>3648-18-8 | 0,002 | 0,01              | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Diocetyl tin dilaurate<br>3648-18-8 |       |                   | Skin designation:                   | Can be absorbed through the skin.  | TRGS 900        |
| Diocetyl tin dilaurate<br>3648-18-8 | 0,002 | 0,01              | Exposure limit(s):                  | 2<br>If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900        |
| Diocetyl tin dilaurate<br>3648-18-8 |       |                   | Skin designation:                   | Can be absorbed through the skin.  | TRGS 900        |
| Diocetyl tin dilaurate<br>3648-18-8 |       |                   | Short Term Exposure Classification: | Category II: substances with a resorptive effect.  | TRGS 900        |

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

| Name on list                          | Environmental Compartment    | Exposure period | Value        |     |           |        | Remarks |
|---------------------------------------|------------------------------|-----------------|--------------|-----|-----------|--------|---------|
|                                       |                              |                 | mg/l         | ppm | mg/kg     | others |         |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (freshwater)            |                 | 0,0015 mg/l  |     |           |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (marine water)          |                 | 0,00015 mg/l |     |           |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | sewage treatment plant (STP) |                 | 10 mg/l      |     |           |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (freshwater)        |                 |              |     | 3 mg/kg   |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (marine water)      |                 |              |     | 0,3 mg/kg |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | oral                         |                 |              |     | 41 mg/kg  |        |         |
| Octamethylcyclotetrasiloxane 556-67-2 | Soil                         |                 |              |     | 4,2 mg/kg |        |         |

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

| Name on list                          | Application Area   | Route of Exposure | Health Effect                         | Exposure Time | Value        | Remarks |
|---------------------------------------|--------------------|-------------------|---------------------------------------|---------------|--------------|---------|
| Diocetyl tin dilaurate 3648-18-8      | Workers            | inhalation        | Long term exposure - systemic effects |               | 0,0035 mg/m3 |         |
| Diocetyl tin dilaurate 3648-18-8      | Workers            | dermal            | Long term exposure - systemic effects |               | 0,05 mg/kg   |         |
| Diocetyl tin dilaurate 3648-18-8      | General population | inhalation        | Long term exposure - systemic effects |               | 0,0009 mg/m3 |         |
| Diocetyl tin dilaurate 3648-18-8      | General population | dermal            | Long term exposure - systemic effects |               | 0,025 mg/kg  |         |
| Diocetyl tin dilaurate 3648-18-8      | General population | oral              | Long term exposure - systemic effects |               | 0,0005 mg/kg |         |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers            | inhalation        | Long term exposure - systemic effects |               | 73 mg/m3     |         |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers            | inhalation        | Long term exposure - local effects    |               | 73 mg/m3     |         |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation        | Long term exposure - systemic effects |               | 13 mg/m3     |         |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation        | Long term exposure - local effects    |               | 13 mg/m3     |         |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | oral              | Long term exposure - systemic effects |               | 3,7 mg/kg    |         |

**Biological Exposure Indices:**

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time                | Conc.   | Basis of biol. exposure index | Remark | Additional Information |
|----------------------------------|------------|---------------------|------------------------------|---------|-------------------------------|--------|------------------------|
| methanol 67-56-1 [Methanol]      | methanol   | Urine               | Sampling time: End of shift. | 15 mg/l | DE BGW                        |        |                        |

**8.2. Exposure controls:**

Respiratory protection:  
Suitable breathing mask when there is inadequate ventilation.  
Filter : AX (EN 14387)  
This recommendation should be matched to local conditions.

Hand protection:  
Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

Eye protection:  
Goggles which can be tightly sealed.

## SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Delivery form   | paste   |
| Colour  | Transparent   |
| Odor  | Neutral   |
| Physical state  | solid   |
| Melting point   | < -50 °C (< -58 °F)   |
| Solidification temperature                                  | Not applicable, Product is a solid  |
| Initial boiling point                                       | 320 - 360 °C (608 - 680 °F)   |
| Flammability  | The product is not flammable.   |
| Explosive limits  | Not applicable, Product is a solid  |
| Flash point   | Not applicable, Product is a solid  |
| Auto-ignition temperature                                   | Not applicable, Product is a solid  |
| Decomposition temperature                                   | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH  | Product is non-soluble (in water),. Not applicable  |
| Viscosity (kinematic)                                       | Not applicable, Product is a solid  |
| Solubility (qualitative)<br>(20 °C (68 °F); Solvent: Water) | Insoluble   |
| Partition coefficient: n-octanol/water                      | Not applicable  |
| Vapour pressure<br>(20 °C (68 °F))                          | Mixture<br>< 0,5 Pa   |
| Density<br>(20 °C (68 °F))                                  | 1,02 g/cm <sup>3</sup> no method / method unknown   |
| Relative vapour density:                                    | Not applicable, Product is a solid  |
| Particle characteristics                                    | Particle Size Not applicable, mixture is a paste.   |

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

Evolves methanol during cure.

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

An allergic reaction cannot be excluded after repeated skin contact.  
Cross-reactions with other amine compounds are possible.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

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

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

| Hazardous substances CAS-No.                             | Value type                    | Value         | Species | Method  |
|--|-------------------------------|---------------|---------|---|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | LD50                          | > 2.000 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | Acute toxicity estimate (ATE) | 2.500 mg/kg   |         | Expert judgement  |
| Dioctyltin dilaurate<br>3648-18-8                        | LD50                          | > 2.000 mg/kg | rat     | OECD Guideline 423 (Acute Oral toxicity)                          |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | LD50                          | > 4.800 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

**Acute dermal toxicity:**

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

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

| Hazardous substances CAS-No.             | Value type | Value         | Species | Method  |
|--|------------|---------------|---------|---|
| Dioctyltin dilaurate<br>3648-18-8        | LD50       | > 2.000 mg/kg | rat     | OECD Guideline 402 (Acute Dermal Toxicity)                          |
| Octamethylcyclotetrasiloxane<br>556-67-2 | LD50       | > 2.375 mg/kg | rat     | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

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

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

| 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) |

**Skin corrosion/irritation:**

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

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

| Hazardous substances<br>CAS-No.                          | Result         | Exposure<br>time | Species  | Method  |
|--|----------------|------------------|--|---|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | not corrosive  | 4 h              | Human,<br>EpiSkin™<br>(SM),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion:<br>Reconstructed Human Epidermis (RHE) Test Method)  |
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | not irritating | 15 min           | Human,<br>EpiSkin™<br>(SM),<br>Reconstructed<br>Human<br>Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation:<br>Reconstructed Human Epidermis (RHE) Test Method) |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | not irritating |                  | rabbit   | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                 |

**Serious eye damage/irritation:**

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

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

| Hazardous substances<br>CAS-No.                          | Result         | Exposure<br>time | Species                        | Method   |
|--|----------------|------------------|--------------------------------|--|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | not irritating |                  | Chicken, eye, in<br>vitro test | OECD Guideline 438 (Isolated Chicken Eye Test Method)                          |
| Diocetyl tin dilaurate<br>3648-18-8                      | not irritating |                  | rabbit                         | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | not irritating |                  | rabbit                         | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

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

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

| Hazardous substances<br>CAS-No.                          | Result          | Test type                             | Species    | Method   |
|--|-----------------|---------------------------------------|------------|--|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | sensitising     | Mouse local lymphnode<br>assay (LLNA) | mouse      | OECD Guideline 429 (Skin Sensitisation:<br>Local Lymph Node Assay) |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | not sensitising | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)                            |

**Germ cell mutagenicity:**

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

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

| Hazardous substances<br>CAS-No.                          | Result   | Type of study /<br>Route of<br>administration    | Metabolic<br>activation /<br>Exposure time | Species | Method   |
|--|----------|--|--|---------|--|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without                           |         | OECD Guideline 471 (Bacterial Reverse Mutation Assay)  |
| 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)       |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | negative | inhalation                                       |  | rat     | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | negative | oral: gavage                                     |  | rat     | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)  |

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

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

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

| Hazardous substances<br>CAS-No.          | Result / Value                      | Test type            | Route of application | Species | Method   |
|--|-------------------------------------|----------------------|----------------------|---------|--|
| Diocetyl tin dilaurate<br>3648-18-8      | NOAEL P 0,3 - 0,4 mg/kg             | screening            | oral: feed           | rat     | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| 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)                                 |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

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

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

| Hazardous substances<br>CAS-No.              | Result / Value           | Route of<br>application | Exposure time /<br>Frequency of<br>treatment               | Species | Method  |
|--|--------------------------|-------------------------|--|---------|---|
| Dioctyltin dilaurate<br>3648-18-8            | NOAEL 0,3 - 0,4<br>mg/kg | oral: feed              | 28 d<br>28 d/daily (ad<br>libitum)                         | rat     | OECD Guideline 422<br>(Combined Repeated<br>Dose Toxicity Study with<br>the Reproduction /<br>Developmental Toxicity<br>Screening Test) |
| Octamethylcyclotetrasilox<br>ane<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)  |
| Octamethylcyclotetrasilox<br>ane<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)                                |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

No data available.

**SECTION 12: Ecological information****General ecological information:**

Do not empty into drains, soil or bodies of water.

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

**12.1. Toxicity****Toxicity (Fish):**

LC50 (fish) &gt; 100 mg/l (expert judgement)

NOEC (fish) &gt; 1 mg/l (expert judgement)

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

| Hazardous substances CAS-No.          | Value type | Value                       | Exposure time | Species   | Method   |
|---------------------------------------|------------|-----------------------------|---------------|---|--|
| Diocetyl tin dilaurate 3648-18-8      | LC50       | Toxicity > Water solubility | 96 h          |   | 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)              |

**Toxicity (aquatic invertebrates):**

EC50 (dafnia) &gt;100 mg/l (OECD 211)

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

| Hazardous substances CAS-No.                          | Value type | Value                       | Exposure time | Species       | Method   |
|---|------------|-----------------------------|---------------|---------------|--|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine 2530-86-1 | EC50       | > 100,1 mg/l                | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| Diocetyl tin dilaurate 3648-18-8                      | EC50       | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| Octamethylcyclotetrasiloxane 556-67-2                 | EC50       | Toxicity > Water solubility | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |

**Chronic toxicity (aquatic invertebrates):**

NOEC (dafnia) &gt; 1 mg/l (OECD 211)

The table below presents the data of 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) |

**Toxicity (Algae):**

NOEC (Algae) &gt; 1 mg/l (OECD 201)

EC50 (Algae) &gt; 100 mg/l (OECD 201)

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

| Hazardous substances<br>CAS-No.                          | Value<br>type | Value                       | Exposure time | Species   | Method  |
|--|---------------|-----------------------------|---------------|---|---|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | EC50          | > 311 mg/l                  | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | NOEC          | 32,4 mg/l                   | 72 h          | Pseudokirchneriella subcapitata                                       | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dioctyltin dilaurate<br>3648-18-8                        | NOEC          | Toxicity > Water solubility | 72 h          | Desmodesmus subspicatus (reported as Scenedesmus subspicatus)         | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | EC50          | Toxicity > Water solubility | 96 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | EC10          | 0,022 mg/l                  | 96 h          | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |

#### Toxicity (microorganisms):

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

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

| Hazardous substances<br>CAS-No.          | Value<br>type | Value                       | Exposure time | Species          | Method   |
|--|---------------|-----------------------------|---------------|------------------|--|
| Octamethylcyclotetrasiloxane<br>556-67-2 | EC50          | Toxicity > Water solubility | 3 h           | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

## 12.2. Persistence and degradability

#### Biodegradability (Screening Tests):

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

| Hazardous substances<br>CAS-No.                          | Result                     | Test type | Degradability | Exposure time | Method   |
|--|----------------------------|-----------|---------------|---------------|--|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | not readily biodegradable. | aerobic   | 24 %          | 28 d          | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)        |
| Dioctyltin dilaurate<br>3648-18-8                        | not readily biodegradable. | aerobic   | 1,9 %         | 28 day        | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)        |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | not readily biodegradable. | aerobic   | 3,7 %         | 29 d          | OECD Guideline 310 (Ready Biodegradability CO2 in Sealed Vessels (Headspace Test)) |

#### (Bio)degradability (Simulation Tests):

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

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

## 12.3. Bioaccumulative potential

**Partition Coefficient (octanol/water)**

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

| Hazardous substances<br>CAS-No.                          | LogPow | Temperature | Method  |
|--|--------|-------------|---|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine<br>2530-86-1 | 0,51   | 25 °C       | QSAR (Quantitative Structure Activity Relationship) |
| Dioctyltin dilaurate<br>3648-18-8                        | 14,56  |             | not specified                                       |
| Octamethylcyclotetrasiloxane<br>556-67-2                 | 6,98   | 21,7 °C     | other guideline:                                    |

**Bioconcentration factor (BCF)**

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

| Hazardous substances<br>CAS-No.          | Bioconcentration<br>factor (BCF) | Exposure<br>time | Temperature | Species                | Method   |
|--|----------------------------------|------------------|-------------|------------------------|--|
| Dioctyltin dilaurate<br>3648-18-8        | < 100                            | 30 day           |             | Salmo irideus          | OECD Guideline 305<br>(Bioconcentration: Flow-<br>through Fish Test) |
| Octamethylcyclotetrasiloxane<br>556-67-2 | 12.400                           | 28 d             |             | Pimephales<br>promelas | EPA OTS 797.1520 (Fish<br>Bioconcentration Test-<br>Rainbow Trout)   |

**12.4. Mobility in soil**

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

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

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

The following table contains only substances that fulfill the criteria as PBT and/or vPvB.

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

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

**PMT/vPvM**

This mixture does not contain any substances that are assessed to be a PMT or vPvM.

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

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

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

Product disposal:  
Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:  
Use packages for recycling only when totally empty.

Waste code  
080410

### SECTION 14: Transport information

- 14.1. UN number or ID number**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**  
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Maritime transport in bulk according to IMO instruments**  
not applicable

### SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|  |                |
|--|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 2024/590): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):    | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):     | Not applicable |

|                          |                |
|--------------------------|----------------|
| Seveso III (2012/18/EU): | Not applicable |
|--------------------------|----------------|

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

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

|                                      |    |
|--------------------------------------|----|
| Storage class according to TRGS 510: | 11 |
|--------------------------------------|----|

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

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

- EUH440 Accumulates in the environment and living organisms including in humans.
- EUH441 Strongly accumulates in the environment and living organisms including in humans.
- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H360D May damage the unborn child.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

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

**Further information:**

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