



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

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LOCTITE SI 5300 RD

SDS No. : 656973

V007.1

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

1.1. Product identifier

LOCTITE SI 5300 RD

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

Intended use:

Silicone adhesive

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

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or 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):

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:



Signal word:

Warning

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

2.3. Other hazards

None if used properly.
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 556-67-2 | PBT/vPvB |
|--|----------|

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---------------|---|---|------------------|
| Triacetoxyethylsilane 17689-77-9 241-677-4 01-2119881778-15 | 1- < 3 % | Eye Dam. 1, H318 Acute Tox. 4, Oral, H302 Skin Corr. 1B, H314 | | |
| octamethylcyclotetrasiloxane 556-67-2 209-136-7 01-2119529238-36 | 0,01- < 0,1 % | Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226 | M chronic = 10 | SVHC 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

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:**

water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO₂) and nitrogen oxides (NO_x) can be released.

Silicon dioxide

5.3. Advice for firefighters

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

Additional information:

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

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13.

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

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

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container tightly sealed.

Refer to Technical Data Sheet

7.3. Specific end use(s)

Silicone adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST] | | 2,4 | Time Weighted Average (TWA): | | EH40 WEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, INHALABLE DUST] | | 6 | Time Weighted Average (TWA): | | EH40 WEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, inhalable dust] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, respirable dust] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Diiron trioxide 1309-37-1 [ROUGE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Diiron trioxide 1309-37-1 [ROUGE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)] | | 10 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTS NON-SPECIFIC] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS] | | 2,4 | Time Weighted Average (TWA): | | IR_OEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS] | | 6 | Time Weighted Average (TWA): | | IR_OEL |
| Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTS NON-SPECIFIC] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Diiron trioxide 1309-37-1 [IRON OXIDE] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Diiron trioxide 1309-37-1 [ROUGE RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Diiron trioxide 1309-37-1 | | 10 | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |

| | | | | | |
|---|--|----|---------------------------------|--|--------|
| [IRON OXIDE] | | | | | |
| Diiron trioxide 1309-37-1 [ROUGE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------------|--------------------|-----------------|-----|-------------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Triacetoxymethylsilane 17689-77-9 | aqua (freshwater) | | >= 0,2 mg/l | | | | |
| Triacetoxymethylsilane 17689-77-9 | aqua (marine water) | | >= 0,02 mg/l | | | | |
| Triacetoxymethylsilane 17689-77-9 | aqua (intermittent releases) | | 1,7 mg/l | | | | |
| Triacetoxymethylsilane 17689-77-9 | sediment (freshwater) | | | | >= 0,16 mg/kg | | |
| Triacetoxymethylsilane 17689-77-9 | sediment (marine water) | | | | >= 0,016 mg/kg | | |
| Triacetoxymethylsilane 17689-77-9 | Soil | | | | >= 0,031 mg/kg | | |
| Triacetoxymethylsilane 17689-77-9 | sewage treatment plant (STP) | | > 1 mg/l | | | | |
| 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 | | | | 0,84 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|---|---------------|-------------------------|---------|
| Triacetoxylethylsilane 17689-77-9 | Workers | inhalation | Long term exposure - local effects | | 32,5 mg/m ³ | |
| Triacetoxylethylsilane 17689-77-9 | Workers | inhalation | Acute/short term exposure - local effects | | 32,5 mg/m ³ | |
| Triacetoxylethylsilane 17689-77-9 | General population | inhalation | Long term exposure - local effects | | 6,5 mg/m ³ | |
| Triacetoxylethylsilane 17689-77-9 | General population | inhalation | Long term exposure - systemic effects | | 19,81 mg/m ³ | |
| Triacetoxylethylsilane 17689-77-9 | General population | dermal | Long term exposure - systemic effects | | 5,7 mg/kg | |
| Triacetoxylethylsilane 17689-77-9 | General population | oral | Long term exposure - systemic effects | | 5,7 mg/kg | |
| Triacetoxylethylsilane 17689-77-9 | Workers | inhalation | Long term exposure - systemic effects | | 80,33 mg/m ³ | |
| Triacetoxylethylsilane 17689-77-9 | Workers | dermal | Long term exposure - systemic effects | | 11,39 mg/kg | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - systemic effects | | 73 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - local effects | | 73 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - systemic effects | | 13 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - local effects | | 13 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | oral | Long term exposure - systemic effects | | 3,7 mg/kg | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Ensure adequate ventilation.

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

Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

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

nitrile rubber (NBR; ≥ 0.4 mm thickness)

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

nitrile rubber (NBR; ≥ 0.4 mm thickness)

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

Eye protection:

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

Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

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

Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Delivery form | liquid |
| Colour | red |
| Odor | Acetic acid |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | < -40 °C (< -40 °F) |
| Initial boiling point | > 100 °C (> 212 °F) |
| Flammability | The product is not flammable. |
| Explosive limits | Not applicable, The product is not flammable. |
| Flash point | > 100 °C (> 212 °F) |
| Auto-ignition temperature | Not applicable, The product is not flammable. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic) (40 °C (104 °F);) | > 20,5 mm ² /s |
| Solubility (qualitative) (20 °C (68 °F); Solvent: Water) | Insoluble |
| Partition coefficient: n-octanol/water | Not applicable Mixture |
| Vapour pressure (20 °C (68 °F)) | < 0,1 hPa |
| Density (20 °C (68 °F)) | 1,05 g/cm ³ no method / method unknown |
| Relative vapour density: (20 °C) | > 1 |
| Particle characteristics | Not applicable Product is a liquid |

9.2. Other information

Other information not applicable for this product

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

Reacts with oxidants, acids and lyes

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

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

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

SECTION 11: Toxicological information**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.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|---------------|---------------|---------|---|
| Triacetoxyethylsilane 17689-77-9 | LD50 | 1.460 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 4.800 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

Acute dermal toxicity:

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

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|--|---------------|---------------|---------|---|
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 2.375 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative toxicity:

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

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|--|---------------|---------|-----------------|------------------|---------|--|
| octamethylcyclotetrasiloxane 556-67-2 | LC50 | 36 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------------------|------------------|---------|---|
| Triacetoxymethylsilane 17689-77-9 | Category 1B (corrosive) | 3 min | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

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

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|------------------|---------|--|
| octamethylcyclotetrasiloxane 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.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|--|-----------------|------------------------------|------------|---|
| Triacetoxymethylsilane 17689-77-9 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| octamethylcyclotetrasiloxane 556-67-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

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

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|---------|---|
| Triacetoxyethylsilane 17689-77-9 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Triacetoxyethylsilane 17689-77-9 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Triacetoxyethylsilane 17689-77-9 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasilox ane 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) |
| octamethylcyclotetrasilox ane 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) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | inhalation | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasilox ane 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.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|-------------------------------------|-----------------------------|-------------------------|---------|--|
| octamethylcyclotetrasilox ane 556-67-2 | NOAEL P 300 ppm NOAEL F1 300 ppm | two- generation study | inhalation | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure:

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

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|-----------------------|---------------------------------|--|----------------|--|
| octamethylcyclotetrasiloxane 556-67-2 | LOAEL 35 ppm | inhalation | 6 h nose only inhalation 5 days/week for 13 weeks | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL 960 mg/kg | dermal | 3 w 5 d/w | rabbit | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

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

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

12.1. Toxicity

Toxicity (Fish):

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

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 |
|--|---------------|--------------------------------|---------------|--|--|
| Triacetoxyethylsilane 17689-77-9 | LC50 | 251 mg/l | 96 h | Brachydanio rerio (new name: Danio rerio) | 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):

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 CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|---------------|---|
| Triacetoxyethylsilane 17689-77-9 | EC50 | 168,7 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| 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):

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 |
|--|---------------|-------------|---------------|---------------|--|
| Triacetoxyethylsilane 17689-77-9 | NOEC | >= 100 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 µg/l | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |

Toxicity (Algae):

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

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

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|-----------------------------|---------------|--|---|
| Triacetoxyethylsilane 17689-77-9 | EC50 | > 1.562,5 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Triacetoxyethylsilane 17689-77-9 | NOEC | 40 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 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) |

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 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) |

12.2. Persistence and degradability

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

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|--|----------------------------|-----------|---------------|---------------|--|
| Triacetoxyethylsilane 17689-77-9 | readily biodegradable | aerobic | 74 % | 21 d | EU Method C.4-A (Determination of the "Ready" Biodegradability Dissolved Organic Carbon (DOC) Die-Away Test) |
| octamethylcyclotetrasiloxane 556-67-2 | not readily biodegradable. | aerobic | 3,7 % | 29 d | OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test)) |

12.3. Bioaccumulative potential

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

| 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) |

12.4. Mobility in soil

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

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|--------|-------------|------------------|
| Triacetoxyethylsilane 17689-77-9 | 0,74 | | not specified |
| octamethylcyclotetrasiloxane 556-67-2 | 6,98 | 21,7 °C | other guideline: |

12.5. Results of PBT and vPvB assessment

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

| Hazardous substances CAS-No. | PBT / vPvB |
|--|---|
| Triacetoxyethylsilane 17689-77-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| octamethylcyclotetrasiloxane 556-67-2 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

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

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

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

Waste code

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

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

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

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

Further information:

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

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.