



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

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LOCTITE SI 5140 known as Loctite(R) 5140 RTV Silicone P

SDS No. : 152780
V005.0

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

1.1. Product identifier

LOCTITE SI 5140 known as Loctite(R) 5140 RTV Silicone P

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
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000
Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.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 EUH210 Safety data sheet available on request.

2.3. Other hazards

None if used properly.

This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General chemical description:**

Silicone sealant

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

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|--|-------------------------------|------------|---|
| Trimethoxy(methyl)silane 1185-55-3 | 214-685-0 01-2119517436-40 | 5- < 10 % | Flam. Liq. 2 H225 |
| Octamethylcyclotetrasiloxane 556-67-2 | 209-136-7 01-2119529238-36 | 0,1- < 1 % | Flam. Liq. 3 H226 Repr. 2 H361f Aquatic Chronic 4 H413 |
| Methanol 67-56-1 | 200-659-6 01-2119433307-44 | 0,1- < 1 % | Flam. Liq. 2 H225 Acute Tox. 3; Inhalation H331 Acute Tox. 3; Dermal H311 Acute Tox. 3; Oral H301 STOT SE 1 H370 |
| Hexamethyldisilazane 999-97-3 | 213-668-5 01-2119438176-38 | 0,1- < 1 % | Flam. Liq. 2 H225 Acute Tox. 4; Oral H302 Acute Tox. 3; Dermal H311 Acute Tox. 4; Inhalation H332 Aquatic Chronic 3 H412 |

**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 if necessary.

Ingestion:

Do not induce vomiting.

Seek medical advice.

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

Prolonged or repeated contact may cause eye irritation.

Prolonged or repeated contact may cause skin 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

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

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

Formaldehyde

Silica fume

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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 LimitsValid for
Ireland

None

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) | | 0,00044 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (marine water) | | 0,000044 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | soil | | | | 0,16 mg/kg | | |
| 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 | | |
| Methanol 67-56-1 | aqua (freshwater) | | 20,8 mg/l | | | | |
| Methanol 67-56-1 | sediment (freshwater) | | | | 77 mg/kg | | |
| Methanol 67-56-1 | aqua (marine water) | | 2,08 mg/l | | | | |
| Methanol 67-56-1 | soil | | | | 100 mg/kg | | |
| Methanol 67-56-1 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| Methanol 67-56-1 | aqua (intermittent releases) | | 1540 mg/l | | | | |
| Methanol 67-56-1 | sediment (marine water) | | | | 7,7 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|-----------------------|---------|
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Acute/short term exposure - systemic effects | | 13 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Acute/short term exposure - local effects | | 13 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 | Workers | inhalation | Acute/short term exposure - systemic effects | | 73 mg/m ³ | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Acute/short term exposure - local effects | | 73 mg/m ³ | |
| 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 | oral | Long term exposure - systemic effects | | 3,7 mg/kg | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | oral | Acute/short term exposure - systemic effects | | 3,7 mg/kg | |
| Methanol 67-56-1 | Workers | inhalation | Long term exposure - systemic effects | | 260 mg/m ³ | |
| Methanol 67-56-1 | Workers | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m ³ | |
| Methanol 67-56-1 | Workers | inhalation | Long term exposure - local effects | | 260 mg/m ³ | |
| Methanol 67-56-1 | Workers | inhalation | Acute/short term exposure - local effects | | 260 mg/m ³ | |
| Methanol 67-56-1 | Workers | dermal | Long term exposure - systemic effects | | 40 mg/kg | |
| Methanol 67-56-1 | Workers | dermal | Acute/short term exposure - systemic effects | | 40 mg/kg | |
| Methanol 67-56-1 | General population | inhalation | Long term exposure - systemic effects | | 50 mg/m ³ | |
| Methanol 67-56-1 | General population | inhalation | Acute/short term exposure - systemic effects | | 50 mg/m ³ | |
| Methanol 67-56-1 | General population | inhalation | Long term exposure - local effects | | 50 mg/m ³ | |
| Methanol 67-56-1 | General population | inhalation | Acute/short term exposure - local effects | | 50 mg/m ³ | |
| Methanol 67-56-1 | General population | dermal | Long term exposure - systemic effects | | 8 mg/kg | |
| Methanol 67-56-1 | General population | dermal | Acute/short term exposure - systemic effects | | 8 mg/kg | |
| Methanol 67-56-1 | General population | oral | Long term exposure - systemic effects | | 8 mg/kg | |
| Methanol 67-56-1 | General population | oral | Acute/short term exposure - | | 8 mg/kg | |

| | | | | | | |
|---------------------|-----------------------|--------|--|--|---------|--|
| | | | systemic effects | | | |
| Methanol 67-56-1 | General population | Dermal | Long term exposure - local effects | | 8 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

| | |
|----------------------------|---|
| Appearance | liquid white |
| Odor | alcohol-like |
| Odour threshold | No data available / Not applicable |
| pH | Not applicable |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | Not determined |
| Initial boiling point | Not determined |
| Flash point | > 93,3 °C (> 199.94 °F); Tagliabue closed cup |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |

| | |
|--|------------------------------------|
| Explosive limits | No data available / Not applicable |
| Vapour pressure (20 °C (68 °F)) | < 10 mm hg |
| Relative vapour density: | Heavier than air |
| Density (ρ) | 1,1 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) (Solvent: Water) | Polymerises in presence of water. |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Polymerises in presence of water.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.
Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

Methanol is liberated slowly upon exposure to moisture.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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.

Oral toxicity:

Ingestion of large quantities may cause liver or kidney damage.
May cause irritation to the digestive tract.

Inhalative toxicity:

May cause irritation to respiratory system.
Methanol released during polymerisation of RTV silicones is toxic by inhalation. It is also highly flammable

Skin irritation:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Prolonged or repeated contact may cause eye irritation.

Acute oral toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|-------------------------------|---------------|----------------------|---------------|---------|--|
| Trimethoxy(methyl)silane 1185-55-3 | LD50 | 11.685 mg/kg | oral | | rat | not specified |
| Octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 4.800 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Methanol 67-56-1 | Acute toxicity estimate (ATE) | 300 mg/kg | oral | | | Expert judgement |
| Hexamethyldisilazane 999-97-3 | LD50 | 851 mg/kg | oral | | rat | OECD Guideline 401 (Acute Oral Toxicity) |

Acute inhalative toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|-------------------------------|-------------|----------------------|---------------|---------|--|
| Trimethoxy(methyl)silane 1185-55-3 | LC50 | > 42,1 mg/l | Vapor. | 6 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Octamethylcyclotetrasiloxane 556-67-2 | LC50 | 36 mg/l | aerosol | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hexamethyldisilazane 999-97-3 | Acute toxicity estimate (ATE) | 10,1 mg/l | vapour | | | Expert judgement |

Acute dermal toxicity:

| Hazardous components CAS-No. | Value type | Value | Route of application | Exposure time | Species | Method |
|--|------------|---------------|----------------------|---------------|---------|--|
| Trimethoxy(methyl)silane 1185-55-3 | LD50 | > 9.500 mg/kg | dermal | | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 2.400 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| Hexamethyldisilazane 999-97-3 | LD50 | 547 mg/kg | dermal | | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|---------------------------------------|----------------|---------------|---------|--|
| Trimethoxy(methyl)silane 1185-55-3 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Methanol 67-56-1 | not irritating | 20 h | rabbit | BASF Test |

Serious eye damage/irritation:

| Hazardous components CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|---------------|---------|---|
| Trimethoxy(methyl)silane 1185-55-3 | not irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | Draize Test |
| Methanol 67-56-1 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

| Hazardous components CAS-No. | Result | Test type | Species | Method |
|--|-----------------|------------------------------------|------------|--|
| Trimethoxy(methyl)silane 1185-55-3 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Octamethylcyclotetrasiloxane 556-67-2 | not sensitising | not specified | | Magnusson and Kligman Method |
| Methanol 67-56-1 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

Germ cell mutagenicity:

| Hazardous components CAS-No. | Result | Type of study/ Route of administration | Metabolic activation/ Exposure time | Species | Method |
|--|----------|--|---|---------|---|
| Trimethoxy(methyl)silane 1185-55-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Octamethylcyclotetrasiloxane 556-67-2 | positive | bacterial gene mutation assay | with and without | | not specified |
| | positive | sister chromatid exchange assay in mammalian cells | with and without | | not specified |
| | negative | in vitro mammalian chromosome aberration test | with and without | | not specified |
| Octamethylcyclotetrasiloxane 556-67-2 | positive | inhalation: vapour | | rat | Chromosome Aberration Test |
| | positive | | | rat | not specified |
| Methanol 67-56-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | negative | in vitro mammalian cell micronucleus test | with and without | | Chromosome Aberration Test |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Methanol 67-56-1 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Hexamethyldisilazane 999-97-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |

Carcinogenicity:

| Hazardous components CAS-No. | Result | Species | Sex | Exposure time Frequency of treatment | Route of application | Method |
|---------------------------------|------------------|---------|-------------|--|-------------------------|--|
| Methanol 67-56-1 | not carcinogenic | mouse | male/female | 18 m 19 h/d | inhalation: vapour | OECD Guideline 453 (Combined Chronic Toxicity/ Carcinogenicity Studies) |

Reproductive toxicity:

| Hazardous substances CAS-No. | Result / Classification | Species | Exposure time | Species | Method |
|---------------------------------|--|--|------------------|---------|--|
| Methanol 67-56-1 | NOAEL P = 1,3 mg/l NOAEL F1 = 0,13 mg/l NOAEL F2 = 0,13 mg/l | Two generation study inhalation | | rat | OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |

Repeated dose toxicity

| Hazardous components CAS-No. | Result | 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) |
| Methanol 67-56-1 | NOAEL=6,63 mg/l | inhalation | 4 weeks 6 h/d, 5 d/w | rat | not specified |

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.

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

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

Other adverse effects:

Not available.

12.1. Toxicity**Ecotoxicity:**

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

| Hazardous components CAS-No. | Value type | Value | Acute Toxicity Study | Exposure time | Species | Method |
|--|---------------|--------------|----------------------------|------------------|--|---|
| Trimethoxy(methyl)silane 1185-55-3 | LC50 | > 746 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Trimethoxy(methyl)silane 1185-55-3 | EC50 | > 816 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Trimethoxy(methyl)silane 1185-55-3 | EC50 | > 913 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | NOEC | > 913 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Octamethylcyclotetrasiloxane 556-67-2 | NOEC | 4.4 µg/l | Fish | 93 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | other guideline: |
| | LC50 | 10 µg/l | Fish | 14 d | Oncorhynchus mykiss | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| Octamethylcyclotetrasiloxane 556-67-2 | EC50 | > 15 µg/l | Daphnia | 48 h | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Octamethylcyclotetrasiloxane 556-67-2 | EC50 | > 22 µg/l | Algae | 96 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| | NOEC | < 22 µg/l | Algae | 96 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| Octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 µg/l | chronic Daphnia | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |
| Methanol 67-56-1 | LC50 | 15.400 mg/l | Fish | 96 h | Lepomis macrochirus | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| | NOEC | 7.900 mg/l | Fish | 200 h | Oryzias latipes | OECD Guideline 210 (fish early life stage toxicity test) |
| Methanol 67-56-1 | EC50 | 18.260 mg/l | Daphnia | 96 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Methanol 67-56-1 | EC50 | 22.000 mg/l | Algae | 96 h | Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Methanol 67-56-1 | IC50 | > 1.000 mg/l | Bacteria | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Hexamethyldisilazane 999-97-3 | LC50 | 88 mg/l | Fish | 96 h | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hexamethyldisilazane 999-97-3 | EC50 | 80 mg/l | Daphnia | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hexamethyldisilazane 999-97-3 | NOEC | 2,7 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| | EC50 | 19 mg/l | Algae | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

12.2. Persistence and degradability**Persistence and Biodegradability:**

The product is not biodegradable.

| Hazardous components CAS-No. | Result | Route of application | Degradability | Method |
|--|-------------------------------|-------------------------|---------------|--|
| Trimethoxy(methyl)silane 1185-55-3 | | aerobic | 54 % | OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test) |
| Octamethylcyclotetrasiloxane 556-67-2 | Not readily biodegradable. | aerobic | 3,7 % | OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test)) |
| Methanol 67-56-1 | readily biodegradable | aerobic | 82 - 92 % | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| Hexamethyldisilazane 999-97-3 | | no data | 15,3 % | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential / 12.4. Mobility in soil**Mobility:**

Cured adhesives are immobile.

Bioaccumulative potential:

Does not bioaccumulate.

| Hazardous components CAS-No. | LogPow | Bioconcentration factor (BCF) | Exposure time | Species | Temperature | Method |
|--|--------|----------------------------------|------------------|------------------------|-------------|---|
| Octamethylcyclotetrasiloxane 556-67-2 | | 12.400 | 28 d | Pimephales promelas | | EPA OTS 797.1520 (Fish Bioconcentration Test- Rainbow Trout) |
| Octamethylcyclotetrasiloxane 556-67-2 | 6,488 | | | | 25,1 °C | OECD Guideline 123 (Partition Coefficient (1- Octanol / Water), Slow- Stirring Method) |
| Methanol 67-56-1 | -0,77 | | | | | other guideline: |

12.5. Results of PBT and vPvB assessment

| Hazardous components CAS-No. | PBT/vPvB |
|--|---|
| Trimethoxy(methyl)silane 1185-55-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Octamethylcyclotetrasiloxane 556-67-2 | very Persistent and very Bioaccumulative (vPvB) |
| Methanol 67-56-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Hexamethyldisilazane 999-97-3 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. 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.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

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

Disposal of uncleaned packages:

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

Disposal must be made according to official regulations.

Waste code

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

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

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

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content < 3 %
(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:

- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H361f Suspected of damaging fertility.
- H370 Causes damage to organs.
- H412 Harmful to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Further information:

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.

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.