



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

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LOCTITE SI 5145 known as NUVA-SIL(R) 5145

SDS No. : 152782
V007.0

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

1.1. Product identifier

LOCTITE SI 5145 known as NUVA-SIL(R) 5145
UFI: K2GW-MWCE-8206-CXKD

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

Intended use:
Silicone sealant

1.3. Details of the supplier of the safety data sheet

Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com 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 sensitizer

Category 1

H317 May cause an allergic skin reaction.

Toxic to reproduction

Category 1B

H360F May damage fertility.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains

Substituted aliphatic-terminated poly(dimethylsiloxane)

Silane, dimethoxydimethyl-

| | |
|---------------------------------|---|
| Signal word: | Danger |
| Hazard statement: | H317 May cause an allergic skin reaction. H360F May damage fertility. |
| Supplemental information | Restricted to professional users. |
| Precautionary statement: | P201 Obtain special instructions before use. |
| Prevention | P280 Wear protective gloves/protective clothing. |
| Precautionary statement: | P308+P313 IF exposed or concerned: Get medical advice/attention. |
| Response | P333+P313 If skin irritation or rash occurs: 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 |
|---|---------------|---|---|------------------|
| Substituted aliphatic-terminated poly(dimethylsiloxane) 193159-06-7 415-290-8 | 50- < 100 % | Skin Sens. 1, H317 | | |
| Silane, dimethoxydimethyl- 1112-39-6 214-189-4 01-2119976290-35 | 1- < 5 % | Flam. Liq. 2, H225 Repr. 1B, H360F | | |
| Hexamethyldisiloxane 107-46-0 203-492-7 01-2119496108-31 | 0,1- < 0,25 % | Flam. Liq. 2, H225 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 | M acute = 1 | |
| Hexamethyldisilizane 999-97-3 213-668-5 01-2119438176-38 | 0,1- < 0,25 % | Flam. Liq. 2, H225 Acute Tox. 4, Oral, H302 Acute Tox. 3, Dermal, H311 Acute Tox. 4, Inhalation, H332 Aquatic Chronic 3, H412 | inhalation:ATE = 10,1 mg/l; vapour | |
| 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 |

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

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: Rash, Urticaria.

Prolonged or repeated contact may cause eye irritation.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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.

Avoid dust formation.

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.

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact.

See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.

Refer to Technical Data Sheet.

Never allow product to get in contact with water during storage

7.3. Specific end use(s)

Silicone sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

None

Occupational Exposure Limits

Valid for

Ireland

None

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|------------------------------------|--------------------|-----------------|-----|----------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| Dimethoxydimethylsilane 1112-39-6 | aqua (freshwater) | | 0,24 mg/l | | | | |
| Dimethoxydimethylsilane 1112-39-6 | aqua (marine water) | | 0,024 mg/l | | | | |
| Dimethoxydimethylsilane 1112-39-6 | sediment (freshwater) | | | | 0,22 mg/kg | | |
| Dimethoxydimethylsilane 1112-39-6 | sediment (marine water) | | | | 0,022 mg/kg | | |
| Dimethoxydimethylsilane 1112-39-6 | Soil | | | | 0,053 mg/kg | | |
| Dimethoxydimethylsilane 1112-39-6 | Sewage treatment plant | | 10 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | aqua (freshwater) | | 0,002 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | aqua (marine water) | | 0 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | sediment (freshwater) | | | | 8,9 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | sediment (marine water) | | | | 0,89 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | Soil | | | | 0,083 mg/kg | | |
| Hexamethyldisiloxane 107-46-0 | Sewage treatment plant | | 10 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | Freshwater - intermittent | | 0,003 mg/l | | | | |
| Hexamethyldisiloxane 107-46-0 | oral | | | | 5,3 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | sediment (freshwater) | | | | 2 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | sediment (marine water) | | | | 0,2 mg/kg | | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Soil | | | | 0,25 mg/kg | | |
| 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 |
|--|--------------------|-------------------|--|---------------|------------|---------|
| Dimethoxydimethylsilane 1112-39-6 | Workers | dermal | Acute/short term exposure - systemic effects | | 7,44 mg/kg | |
| Dimethoxydimethylsilane 1112-39-6 | Workers | inhalation | Acute/short term exposure - systemic effects | | 88,4 mg/m3 | |
| Dimethoxydimethylsilane 1112-39-6 | Workers | dermal | Long term exposure - systemic effects | | 7,44 mg/kg | |
| Dimethoxydimethylsilane 1112-39-6 | Workers | inhalation | Long term exposure - systemic effects | | 88,4 mg/m3 | |
| Dimethoxydimethylsilane 1112-39-6 | General population | oral | Long term exposure - systemic effects | | 5,21 mg/kg | |
| Hexamethyldisiloxane 107-46-0 | Workers | inhalation | Long term exposure - systemic effects | | 53,4 mg/m3 | |
| Hexamethyldisiloxane 107-46-0 | Workers | dermal | Long term exposure - systemic effects | | 333 mg/kg | |
| Hexamethyldisiloxane 107-46-0 | General population | inhalation | Long term exposure - systemic effects | | 13,3 mg/m3 | |
| Hexamethyldisiloxane 107-46-0 | General population | dermal | Long term exposure - systemic effects | | 167 mg/kg | |
| Hexamethyldisiloxane 107-46-0 | General population | oral | Long term exposure - systemic effects | | 0,27 mg/kg | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | inhalation | Long term exposure - systemic effects | | 53 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | inhalation | Acute/short term exposure - systemic effects | | 53 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | inhalation | Long term exposure - local effects | | 133 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | inhalation | Acute/short term exposure - local effects | | 133 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | dermal | Long term exposure - systemic effects | | 7,5 mg/kg | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | Workers | dermal | Acute/short term exposure - systemic effects | | 7,5 mg/kg | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | inhalation | Long term exposure - systemic effects | | 3,7 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | inhalation | Acute/short term exposure - systemic effects | | 3,7 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | inhalation | Long term exposure - local effects | | 1,7 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | inhalation | Acute/short term exposure - local effects | | 1,7 mg/m3 | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | oral | Long term exposure - systemic effects | | 1,1 mg/kg | |
| 1,1,1,3,3,3-Hexamethyldisilazane 999-97-3 | General population | oral | Acute/short term exposure - systemic effects | | 1,1 mg/kg | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - | | 73 mg/m3 | |

| | | | | | | |
|--|-----------------------|------------|---|--|-----------|--|
| | | | systemic effects | | | |
| 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:

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

Dust mask, P2 particle filter.

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

solid

Colour

transparent

Odor

Alcoholic

Physical state

solid

Melting point

-40 °C (-40 °F)

Solidification temperature

Not applicable, Product is a solid

| | |
|---|---|
| Initial boiling point | 375 °C (707 °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 | 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) | Polymerises in presence of water. |
| Solubility (qualitative) (Solvent: Acetone) | Not determined |
| Partition coefficient: n-octanol/water | Not applicable |
| Vapour pressure (21 °C (69.8 °F)) | Mixture < 13 mbar |
| Vapour pressure (20 °C (68 °F)) | 0,0042 Pa calculated |
| Vapour pressure (50 °C (122 °F)) | 0,094 Pa calculated |
| Density (20 °C (68 °F)) | 1,1 g/cm ³ None |
| Relative vapour density: | Not applicable, Product is a solid |
| Particle characteristics | Not applicable Product is not powder. |

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

General toxicological information:

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

Methanol released during polymerisation of RTV silicones is toxic by inhalation. It is also highly flammable

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 |
|--|---------------|----------------|---------|---|
| Silane, dimethoxydimethyl- 1112-39-6 | LD50 | > 2.007 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Hexamethyldisiloxane 107-46-0 | LD50 | > 12.000 mg/kg | rat | not specified |
| Hexamethyldisilazane 999-97-3 | LD50 | 851 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 |
|--|---------------|---------------|---------|---|
| Hexamethyldisiloxane 107-46-0 | LD50 | > 2.000 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Hexamethyldisilazane 999-97-3 | LD50 | 547 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| 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 |
|---------------------------------------|-------------------------------|-----------|-----------------|---------------|---------|--|
| Hexamethyldisiloxane 107-46-0 | LC50 | 106 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hexamethyldisilazane 999-97-3 | Acute toxicity estimate (ATE) | 10,1 mg/l | vapour | | | Expert judgement |
| 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 |
|---------------------------------------|----------------|---------------|--|--|
| Silane, dimethoxydimethyl- 1112-39-6 | not irritating | | Human, EpiSkin™ (SM), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Silane, dimethoxydimethyl- 1112-39-6 | not irritating | | Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| Hexamethyldisiloxane 107-46-0 | not irritating | 4 h | 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 |
|---------------------------------------|---------------------------|---------------|---|--|
| Silane, dimethoxydimethyl- 1112-39-6 | no prediction can be made | | Bovine, cornea, in vitro test | OECD Guideline 437 (BCOP) |
| Silane, dimethoxydimethyl- 1112-39-6 | not irritating | | Reconstructed three dimensional human cornea model (EpiOcular™) | OECD Guideline 492 (Reconstructed Human Cornea-like Epithelium (RhCE) Test Method) |
| Hexamethyldisiloxane 107-46-0 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 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 |
|---------------------------------------|-----------------|------------------------------------|------------|---|
| Silane, dimethoxydimethyl- 1112-39-6 | | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Hexamethyldisiloxane 107-46-0 | not sensitising | | human | Patch Test |
| 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 |
|---------------------------------------|----------|--|--------------------------------------|---------|--|
| Hexamethyldisiloxane 107-46-0 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hexamethyldisiloxane 107-46-0 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Hexamethyldisiloxane 107-46-0 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Hexamethyldisilazane 999-97-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Hexamethyldisilazane 999-97-3 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasiloxane 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 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) |
| Hexamethyldisiloxane 107-46-0 | negative | intraperitoneal | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | inhalation | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasiloxane 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 |
|---|-------------------------------------|-----------------------------|-------------------------|---------|--|
| Silane, dimethoxydimethyl- 1112-39-6 | NOAEL P 100 mg/kg | screening | oral: gavage | rat | equivalent or similar to OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| Hexamethyldisiloxane 107-46-0 | NOAEL P >= 5000 ppm | two- generation study | inhalation: vapour | rat | OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| 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 |
|---|-----------------|-------------------------|--|---------|--|
| Silane, dimethoxydimethyl- 1112-39-6 | NOAEL 250 mg/kg | oral: gavage | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Hexamethyldisiloxane 107-46-0 | NOAEL 160 mg/kg | oral: gavage | 28 d once daily (7d/w) | rat | OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents) |
| octamethylcyclotetrasilox- ane 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) |
| octamethylcyclotetrasilox- ane 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):**

LC50 (fish) > 100 mg/l (expert judgement)

NOEC (fish) > 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 |
|--|---------------|--------------------------------|---------------|--|--|
| Silane, dimethoxydimethyl- 1112-39-6 | LC50 | > 126 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Silane, dimethoxydimethyl- 1112-39-6 | NOEC | 12 mg/l | 32 d | Pimephales promelas | OECD Guideline 210 (fish early lite stage toxicity test) |
| Hexamethyldisiloxane 107-46-0 | LC50 | 0,46 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Hexamethyldisiloxane 107-46-0 | NOEC | > 0,027 mg/l | 90 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |
| Hexamethyldisilazane 999-97-3 | LC50 | 88 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):

EC50 (dafnia) >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 |
|--|---------------|--------------------------------|---------------|---------------|---|
| Silane, dimethoxydimethyl- 1112-39-6 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Hexamethyldisilazane 999-97-3 | EC50 | 80 mg/l | 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) > 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 |
|--|---------------|-----------|---------------|---------------|--|
| Silane, dimethoxydimethyl- 1112-39-6 | NOEC | 12,6 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Hexamethyldisiloxane 107-46-0 | NOEC | 0,08 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):

NOEC (Algae) > 1 mg/l (OECD 201)

EC50 (Algae) > 100 mg/l (OECD 201)

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 |
|--|---------------|--------------------------------|---------------|---|--|
| Silane, dimethoxydimethyl- 1112-39-6 | EC50 | > 118 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Silane, dimethoxydimethyl- 1112-39-6 | NOEC | 118 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hexamethyldisiloxane 107-46-0 | EC50 | Toxicity > Water solubility | 70 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hexamethyldisiloxane 107-46-0 | EC10 | 0,09 mg/l | 70 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Hexamethyldisilazane 999-97-3 | EC10 | 7,5 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal Inhibition test) |
| Hexamethyldisilazane 999-97-3 | EC50 | 50 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | EU Method C.3 (Algal 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 |
|--|---------------|--------------------------------|---------------|--|---|
| Silane, dimethoxydimethyl- 1112-39-6 | EC10 | > 100 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Hexamethyldisiloxane 107-46-0 | EC50 | Toxicity > Water solubility | 3 h | activated sludge, domestic | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 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 |
|--|----------------------------|-----------|---------------|------------------|--|
| Silane, dimethoxydimethyl- 1112-39-6 | not readily biodegradable. | aerobic | 0 % | 28 d | OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test)) |
| Hexamethyldisiloxane 107-46-0 | not readily biodegradable. | aerobic | 2 % | 28 d | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Hexamethyldisilazane 999-97-3 | not readily biodegradable. | no data | 15,3 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle 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 |
|--|----------------------------------|---------------|-------------|---------------------|---|
| Hexamethyldisiloxane 107-46-0 | 776 - 2.410 | 70 d | | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |
| 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 |
|--|--------|-------------|---|
| Silane, dimethoxydimethyl- 1112-39-6 | 2 | 20 °C | QSAR (Quantitative Structure Activity Relationship) |
| Hexamethyldisiloxane 107-46-0 | 5,06 | 20 °C | other guideline: |
| 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 |
|--|---|
| Hexamethyldisiloxane 107-46-0 | 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. |
| 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 2024/590):

Not applicable

Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Not applicable

Persistent organic pollutants (Regulation (EU) 2019/1021):

Not applicable

VOC content
(2010/75/EC)

< 5 %

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H360F May damage fertility.
H361f Suspected of damaging fertility.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful 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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