# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

**Supercedes date** 06-Dec-2021 **Revision date** 23-Dec-2023 **Revision Number** 5

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

### 1.1. Product identifier

**Product Code(s)** 11183

**Safety data sheet number** 11183

**Product Name** XIAMETER PMX 1411 FLUID

**Synonyms** DOW CORNING 1411 FLUID

**Pure substance/mixture** Mixture

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

**Recommended use** Cosmetics

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

**Supplier**
Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

**E-mail address** SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

### 1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| | |
|---|---|
| **Chronic aquatic toxicity** | Category 3 - (H412) |

### 2.2. Label elements

**Hazard statements**
H412 - Harmful to aquatic life with long lasting effects

**Precautionary statements**
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | Weight-% | EC No (EU Index No) | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended) | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE<br>541-02-6 | >= 75.0 - <= 87.0 % | 208-764-9 | - | - | - | - | - |
| DODECAMETHYLCYCLOHEXASILOXANE<br>540-97-6 | >= 0.42 - <= 3.21 % | 208-762-8 | - | - | - | - | - |
| OCTAMETHYLCYCLOTETRASILOXANE<br>556-67-2 | <= 0.12 % | 209-136-7 (014-018-00-1) | - | Flam. Liq. 3 (H226)<br>Aquatic Chronic 1 (H410)<br>Repr. 2 (H361f) | - | 10 | 10 |

**Full text of H- and EUH-phrases: see section 16**

| Chemical name | CAS No | SVHC candidates |
|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE | 541-02-6 | X |
| DODECAMETHYLCYCLOHEXASILOXANE | 540-97-6 | X |
| OCTAMETHYLCYCLOTETRASILOXANE | 556-67-2 | X |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Use personal protection recommended in Section 8.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

| | |
|---|---|
| **Eye contact** | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur. |
| **Skin contact** | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur. |
| **Ingestion** | Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur. |

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

| | |
|---|---|
| **Eyes** | May cause temporary eye irritation. |

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

| | |
|---|---|
| **Note to doctors** | Treat symptomatically. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable Extinguishing Media** | Alcohol resistant foam. Dry chemical. Dry sand. |
| **Large Fire** | CAUTION: Use of water spray when fighting fire may be inefficient. |
| **Unsuitable extinguishing media** | Do not scatter spilled material with high pressure water streams. |

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

| | |
|---|---|
| **Specific hazards arising from the chemical** | When heated and in case of fire, toxic vapours/gases may be formed. Flash back possible over considerable distance. Closed containers can burst violently when heated, due to excess pressure build-up. Fire burns more vigorously than would be expected. Vapours may form explosive mixtures with air. |
| **Hazardous combustion products** | Carbon oxides. Silicon oxides. Formaldehyde. |

### 5.3. Advice for firefighters

| | |
|---|---|
| **Special protective equipment and precautions for fire-fighters** | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## SECTION 6: Accidental release measures

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

| | |
|---|---|
| **Personal precautions** | Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Remove all sources of ignition. |
| **For emergency responders** | Use personal protection recommended in Section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| **Environmental precautions** | See Section 12 for additional Ecological Information. |

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use non-sparking tools. Suppress (knock down) gases/vapours/mists with a water spray jet. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers retain product residue and can be hazardous.

**General hygiene considerations** Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store locked up. Keep away from open flames, hot surfaces and sources of ignition. Do not store together with. Strong oxidising agents. Explosives. Gases.

### 7.3. Specific end use(s)

**Specific use(s)**
See section 1 for more information.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE<br>541-02-6 | | | 97.3 mg/m³ [4] [6]<br>24.2 mg/m³ [5] [6] |
| DODECAMETHYLCYCLOHEXASILOXANE<br>540-97-6 | | | 11 mg/m³ [4] [6]<br>1.22 mg/m³ [5] [6]<br>6.1 mg/m³ [5] [7] |
| OCTAMETHYLCYCLOTETRASILOXANE<br>556-67-2 | | | 73 mg/m³ [4] [6]<br>73 mg/m³ [5] [6] |

**[4]** Systemic health effects.
**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE<br>541-02-6 | 5 mg/kg bw/day [4] [6] | | 17.3 mg/m³ [4] [6]<br>4.3 mg/m³ [5] [6] |
| DODECAMETHYLCYCLOHEXASILOXANE<br>540-97-6 | 1.7 mg/kg bw/day [4] [6]<br>1.7 mg/kg bw/day [4] [7] | | 2.7 mg/m³ [4] [6]<br>0.3 mg/m³ [5] [6]<br>1.5 mg/m³ [5] [7] |
| OCTAMETHYLCYCLOTETRASILOXANE<br>556-67-2 | 3.7 mg/kg bw/day [4] [6] | | 13 mg/m³ [4] [6]<br>13 mg/m³ [5] [6] |

**[4]** Systemic health effects.
**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|---|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE<br>541-02-6 | >0.0012 mg/l | | >0.00012 mg/l | | |
| DODECAMETHYLCYCLOHEXASILOXANE<br>540-97-6 | 13.5 mg/kg | | 1.35 mg/kg | | |
| OCTAMETHYLCYCLOTETRASILOXANE<br>556-67-2 | 0.0015 mg/l | | 0.00015 mg/l | | |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE<br>541-02-6 | 11 mg/kg sediment dw | 1.1 mg/kg sediment dw | 10 mg/L | 2.54 mg/kg soil dw | 16 mg/kg food |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| DODECAMETHYLCYCLOHEXASILOXANE 540-97-6 | 13 mg/kg sediment dw | 1.3 mg/kg sediment dw | 1 mg/L | 3.77 mg/kg soil dw | 66.7 mg/kg food |
| OCTAMETHYLCYCLOTETRASILOXANE 556-67-2 | 3 mg/kg sediment dw | 0.3 mg/kg sediment dw | 10 mg/L | 0.54 mg/kg soil dw | 41 mg/kg food |

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

**Hand protection** Wear suitable gloves. Gloves must conform to standard EN 374.

| Gloves | | | |
|---|---|---|---|
| Duration of contact | PPE - Glove material | Glove thickness | Break through time |
| | Wear protective butyl rubber gloves | > 0.35 mm | > 60 minutes |
| | Rubber (natural, latex) | > 0.35 mm | > 60 minutes |
| | Wear protective Neoprene™ gloves | > 0.35 mm | > 60 minutes |
| | Wear protective nitrile rubber gloves | > 0.35 mm | > 60 minutes |
| | Ethyl vinyl alcohol laminate ("EVAL") | > 0.35 mm | > 60 minutes |
| | Polyvinyl chloride (PVC) | > 0.35 mm | > 60 minutes |

**Skin and body protection** Wear appropriate clothing to prevent reasonably probable skin contact.

**Respiratory protection** Use appropriate respiratory protection.
Organic gases and vapours filter conforming to EN 14387. Type AP2.

## SECTION 9: Physical and chemical properties

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

**Physical state** Liquid
**Appearance** Liquid
**Colour** Colourless
**Odour** Odourless.
**Odour threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | | Not determined. |
| **Initial boiling point and boiling range** | 210 °C | 760 mmHg. |
| **Flammability** | | Not applicable. |
| **Flammability Limit in Air** | | No information available. |
| **Upper flammability or explosive limits** | | |
| **Lower flammability or explosive** | | |

| | | |
|---|---|---|
| **limits** | | |
| **Flash point** | 70 °C | Closed cup. |
| **Autoignition temperature** | | No information available. |
| **Decomposition temperature** | | No information available. |
| **pH** | | No information available. |
| **pH (as aqueous solution)** | | No information available. |
| **Kinematic viscosity** | 6000 cSt | @ 25 °C. |
| **Dynamic viscosity** | | No information available. |
| **Water solubility** | | Not determined. |
| **Solubility(ies)** | | No information available. |
| **Partition coefficient** | | Not determined. |
| **Vapour pressure** | | No information available. |
| **Relative density** | 0.97 | |
| **Bulk density** | | No information available |
| **Liquid Density** | No information available | No information available |
| **Relative vapour density** | | No information available. |
| **Particle characteristics** | | Not applicable. |
| **Particle Size** | No information available | |
| **Particle Size Distribution** | No information available | |
| **Explosive properties** | Not considered to be explosive | |
| **Oxidising properties** | Does not meet the criteria for classification as oxidising | |

**9.2. Other information**

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** No known effects under normal use conditions.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**
**Sensitivity to mechanical impact** None.
**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** The following materials may react with the product:. Strong oxidising agents. Vapours may form explosive mixtures with air. Combustible liquid.

**10.4. Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks.

**10.5. Incompatible materials**

**Incompatible materials** Strong oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Silicon oxides. Formaldehyde.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Eye contact** May cause temporary eye irritation.

**Skin contact** Non-irritating during normal use.

**Ingestion** Gastrointestinal discomfort.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral)** > 5000 mg/kg
**ATEmix (dermal)** > 2000 mg/kg

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE | > 24134 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | = 8.67 mg/L ( Rat ) 4 h |
| DODECAMETHYLCYCLOHEXASILOXANE | > 2000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat ) | - |
| OCTAMETHYLCYCLOTETRASILOXANE | > 4800 mg/kg ( Rat ) | > 2400 mg/kg ( Rabbit ) | = 36 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Non-irritating during normal use |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Non-irritating during normal use |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Non-irritating during normal use |

**Serious eye damage/eye irritation** May cause temporary eye irritation.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | non-irritant |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | May cause temporary eye irritation |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | non-irritant |

**Respiratory or skin sensitisation** Not a skin sensitiser.

| Method | Species | Exposure route | Results |
|---|---|---|---|
| | Human evidence | Dermal | Not a skin sensitiser |

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Exposure route | Results |
|---|---|---|---|
| | Mouse | Dermal | Not a skin sensitiser |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Exposure route | Results |
|---|---|---|---|
| | Guinea pig | Dermal | Not a skin sensitiser |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Exposure route | Results |
|---|---|---|---|
| | Guinea pig | Dermal | Not a skin sensitiser |

**Germ cell mutagenicity** Did not show mutagenic effects in animal experiments.

| Product Information | | |
|---|---|---|
| Method | Species | Results |
| | in vitro | Negative |
| | | Did not show mutagenic effects in animal experiments |

Component Information

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Results |
|---|---|---|
| | in vitro | Negative |
| | | Did not show mutagenic effects in animal experiments |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Results |
|---|---|---|
| | in vitro | Negative |
| | | Did not show mutagenic effects in animal experiments |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Results |
|---|---|---|
| | in vitro | Negative |
| | | Did not show mutagenic effects in animal experiments |

**Carcinogenicity** Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date

have not demonstrated if this effect occurs through a pathway that is relevant to humans.

Component Information

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Results |
|---|---|---|
| | | Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans. |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Results |
|---|---|---|
| | | Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown. |

**Reproductive toxicity** No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

| Chemical name | United Kingdom |
|---|---|
| OCTAMETHYLCYCLOTETRASILOXANE | Repr. 2 |

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Results |
|---|---|---|
| | | This product does not contain any known or suspected reproductive hazards |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Results |
|---|---|---|
| | | This product does not contain any known or suspected reproductive hazards |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Results |
|---|---|---|
| | | Suspected of damaging fertility |

**STOT - single exposure** Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Based on available data, a STOT-RE classification is not warranted. |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Based on available data, a STOT-RE classification is not warranted. |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | In animals, effects have been reported on the following organs: Kidney Liver respiratory tract Female reproductive organs |

**STOT - repeated exposure** Based on available data, a STOT-RE classification is not warranted.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure. |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure. |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Exposure route | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | | | | | Not classified Based on available data, |

| | | | | | |
|---|---|---|---|---|---|
| | | | | | specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure. |

**Aspiration hazard** Based on available data the classification criteria are not met.

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Species | Endpoint type | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| OECD Test No. 204: Fish, Prolonged Toxicity Test: 14-Day Study | Oncorhynchus mykiss (rainbow trout) | LC50 | > 16 µg/l | 96 hours | |
| OECD Test No. 202: Daphnia sp., Acute Immobilisation Test | Daphnia magna | EC50 | > 2.9 mg/L | 48 hours | |
| | Pseudokirchneriella subcapitata | ErC50 | > 0.012 mg/L | 96 hours | |
| | Pseudokirchneriella subcapitata | NOEC | 0.012 mg/L | 96 hours | |
| Chronic aquatic toxicity | Oncorhynchus mykiss (rainbow trout) | LC50 | > 16 mg/L | 14 days | |
| Chronic aquatic toxicity | Oncorhynchus mykiss (rainbow trout) | NOEC | >= 0.017 mg/L | 45 days | |
| Chronic aquatic toxicity | Oncorhynchus mykiss (rainbow trout) | NOEC | >= 0.014 mg/L | 90 days | |
| Chronic aquatic toxicity | Daphnia magna | NOEC | 0.015 mg/L | 21 days | |
| | Eisenia fetida | NOEC | >= 76 mg/kg | | |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Species | Endpoint type | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | Pseudokirchneriella subcapitata | ErC50 | > 0.002 mg/L | 72 hours | |
| Chronic aquatic toxicity | Daphnia magna | NOEC | 0.0046 mg/L | 21 days | |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Species | Endpoint type | Effective dose | Exposure time | Results |
|---|---|---|---|---|---|
| | Oncorhynchus mykiss (rainbow trout) | LC50 | > 0.022 mg/L | 96 hours | |
| | Cyprinodon variegatus | LC50 | > 0.0063 mg/L | 14 days | |
| | Mysidopsis bahia | EC50 | > 0.0091 mg/L | 96 hours | |
| | Daphnia magna | EC50 | > 0.015 mg/L | 48 hours | |

| | | | | | |
|---|---|---|---|---|---|
| | Pseudokirchneriella subcapitata | ErC50 | > 0.022 mg/L | 96 hours | |
| | Pseudokirchneriella subcapitata | EC10 | >= 0.022 mg/L | 96 hours | |
| Chronic aquatic toxicity | Oncorhynchus mykiss (rainbow trout) | NOEC | >= 0.0044 mg/L | 93 days | |
| Chronic aquatic toxicity | Daphnia magna | NOEC | 0.0079 mg/L | 21 days | |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| OECD 310 | 28 days | Biodegradation 0.14% | Expected to biodegrade very slowly |

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) | 28 days | Biodegradation 4.5% | Not readily biodegradable |

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| OECD 310 | 28 days | Biodegradation 3.7% | Expected to biodegrade very slowly |

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| DECAMETHYLCYCLOPENTASILOXANE | 8.023 |
| DODECAMETHYLCYCLOHEXASILOXANE | 8.87 |
| OCTAMETHYLCYCLOTETRASILOXANE | 6.49 |

### 12.4. Mobility in soil

**Mobility in soil** Not determined.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product contains substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|---|---|
| DECAMETHYLCYCLOPENTASILOXANE | PBT substance vPvB substance |
| DODECAMETHYLCYCLOHEXASILOXANE | vPvB substance |
| OCTAMETHYLCYCLOTETRASILOXANE | PBT substance vPvB substance |

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| **Waste from residues/unused products** | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| **Contaminated packaging** | Do not reuse empty containers. |

## SECTION 14: Transport information

**IATA**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2** | |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |
| **14.7 Maritime transport in bulk according to IMO instruments** | No information available |

**RID**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2 UN proper shipping name** | Not regulated |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |

**ADR**

| | |
|---|---|
| **14.1 UN number or ID number** | Not regulated |
| **14.2 UN proper shipping name** | Not regulated |
| **14.3 Transport hazard class(es)** | Not regulated |
| **14.4 Packing group** | Not regulated |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | None |

## SECTION 15: Regulatory information

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

**National regulations**

**Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

| Chemical name | Restricted substance per REACH | Substance subject to authorisation per |
|---|---|---|

| | Annex XVII | REACH Annex XIV |
|---|---|---|
| DECAMETHYLCYCLOPENTASILOXANE - 541-02-6 | Use restricted. See item 70. | - |
| OCTAMETHYLCYCLOTETRASILOXANE - 556-67-2 | Use restricted. See item 70. | - |

**Persistent Organic Pollutants**
Not applicable

**Export Notification requirements**
Not applicable

**Named dangerous substances per COMAH Regulations 2015 (as amended)**
Not applicable

**The Ozone-Depleting Substances Regulations 2015**
Not applicable

**The Biocidal Products Regulations 2001 (as amended)**
Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**
Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**
Not applicable

**International Inventories**

| | |
|---|---|
| **TSCA** | Contact supplier for inventory compliance status |
| **DSL/NDSL** | Contact supplier for inventory compliance status |
| **EINECS/ELINCS** | Contact supplier for inventory compliance status |
| **ENCS** | Contact supplier for inventory compliance status |
| **IECSC** | Contact supplier for inventory compliance status |
| **KECL** | Contact supplier for inventory compliance status |
| **PICCS** | Contact supplier for inventory compliance status |
| **AIIC** | Contact supplier for inventory compliance status |
| **NZIoC** | Contact supplier for inventory compliance status |

**Legend:**
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AIIC** - Australian Inventory of Industrial Chemicals
**NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**
H226 - Flammable liquid and vapour
H361f - Suspected of damaging fertility
H410 - Very toxic to aquatic life with long lasting effects

**Legend**
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| + | Sensitisers | | |

Revision Note SDS sections updated 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

| | |
|---|---|
| **Prepared By** | Lisa Bland |
| **Supercedes date** | 06-Dec-2021 |
| **Revision date** | 23-Dec-2023 |

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)**
**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Disclaimer**
**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**