

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by  
Regulation(EU) No. 2020/878

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

### 1.1 Product identifier

Product name: RTV 106

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

Identified uses: Silicone Elastomer

Uses advised against: For industrial use only.

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

**Manufacturer/Importer/Distributor Information** : Momentive Performance Materials GmbH  
Chempark Leverkusen Gebaeude V7  
DE - 51368 Leverkusen  
Germany

**Contact person** : commercial.services@momentive.com

**Telephone** : General information  
+390510924300 (Customer Service Centre)

**1.4 Emergency telephone number** : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44  
(0) 1235239671

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

The product is not classified for chronic aquatic toxicity, for further details see section 16

**2.2 Label Elements** Not applicable

#### Supplemental label information

EUH210: Safety data sheet available on request.

**Additional Information:** No data available.

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**2.3 Other hazards**

**PBT/vPvB data**

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

**Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**Chemical nature:** Mixture of polydimethylsiloxanes, fillers and cross-linkers.

**3.2 Mixtures**

**General information:** No data available.

| Chemical name                 | Concentration | CAS-No.  | EC No.    | REACH Registration No. | M-Factor:                      | Notes     |
|-------------------------------|---------------|----------|-----------|------------------------|--------------------------------|-----------|
| Octamethylcyclotetrasiloxane  | 1 - <2,5%     | 556-67-2 | 209-136-7 | 01-2119529238-36-XXXX  | Aquatic Toxicity (Chronic): 10 | PBT, vPvB |
| Decamethylcyclopentasiloxane  | 0,1 - <1%     | 541-02-6 | 208-764-9 | 01-2119511367-43-XXXX  | Not applicable                 | vPvB      |
| Dodecamethylcyclohexasiloxane | 0,1 - <1%     | 540-97-6 | 208-762-8 | 01-2119517435-42-XXXX  | Not applicable                 | vPvB      |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

| Chemical name                 | Classification  | Notes              |
|-------------------------------|---|--------------------|
| Octamethylcyclotetrasiloxane  | Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410; | No data available. |
| Decamethylcyclopentasiloxane  | No data available.  |                    |
| Dodecamethylcyclohexasiloxane | No data available.  |                    |

CLP: Regulation No. 1272/2008.

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**SECTION 4: First aid measures**

**General:** No action shall be taken involving any personal risk or without suitable training.

**4.1 Description of first aid measures**

**Inhalation:** Move to fresh air. Get medical attention if any discomfort continues.

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

**Ingestion:** Drink plenty of water. Do NOT induce vomiting. Get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** No data available.

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

**Hazards:** No data available.

**Treatment:** Treatment is symptomatic and supportive.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**5.1 Extinguishing media**

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** Do not use water jet.

**5.2 Special hazards arising from the substance or mixture:**

In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Pay attention to the corrosive effects arising from contact with water. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**5.3 Advice for firefighters**

**Special fire-fighting procedures:** Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Caution: Contaminated surfaces may be slippery. Reacts with water liberating small amounts of acetic acid. Use personal protective equipment.

**6.2 Environmental Precautions:** Do not allow runoff to sewer, waterway or ground.

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**6.3 Methods and material for containment and cleaning up:** Shovel up and place in a container for salvage or disposal.

**6.4 Reference to other sections:** No data available.

**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:** Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes, skin, and clothing. Acetic acid is formed during processing. Wear appropriate personal protective equipment.

**Storage conditions:** No data available.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place.

**Storage Stability:** Stable

**7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters**

**Occupational Exposure Limits**

| Chemical name                  | Type | Exposure Limit Values | Source  |
|--------------------------------|------|-----------------------|---|
| Red iron oxide - Fume. - as Fe | STEL | 10 mg/m3              | UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011) |
| Red iron oxide - Respirable.   | TWA  | 4 mg/m3               | UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011) |
| Red iron oxide - Inhalable     | TWA  | 10 mg/m3              | UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011) |
| Red iron oxide - Fume. - as Fe | TWA  | 5 mg/m3               | UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011) |

**Biological Limit Values**

None.

**8.2 Exposure controls**

**Appropriate Engineering Controls:** Provide adequate general and local exhaust ventilation. Eye washes and showers for emergency use.

**Individual protection measures, such as personal protective equipment**

**General information:** No data available.

**Eye/face protection:** Safety glasses with side-shields conforming to EN166

**Skin protection**

**Hand Protection:** Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.

**Other:** Wear suitable protective clothing and eye/face protection.

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respiratory protection mask with Filtertype ABEK

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**Hygiene measures:** Avoid contact with eyes, skin, and clothing. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. When using do not eat, drink or smoke.

**Environmental exposure controls:** No data available.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

**Physical state:** solid  
**Form:** Paste  
**Color:** Red  
**Odor:** Acetic acid.  
**Odor Threshold:** No data available.  
**pH:** Not applicable  
**Melting Point:** No data available.  
**Boiling Point:** No data available.  
**Flash Point:** > 93,3 °C (estimated)  
**Evaporation Rate:** < 1  
**Flammability (solid, gas):** No data available.  
**Flammability Limit - Upper (%):** No data available.  
**Flammability Limit - Lower (%):** No data available.  
**Vapor pressure:** Not applicable  
**Relative vapor density:** Not applicable  
**Density:** 1,06 g/cm<sup>3</sup> (23 °C)  
**Relative density:** ca. 1,06  
**Solubility(ies)**  
**Solubility in Water:** Insoluble  
**Solubility (other):** Toluene  
**Partition coefficient (n-octanol/water) Log Pow:** No data available.

**Autoignition Temperature:** No data available.  
**Decomposition Temperature:** No data available.  
**SADT:** No data available.  
**Viscosity, dynamic:** No data available.  
**Viscosity, kinematic:** No data available.  
**Explosive properties:** No data available.  
**Oxidizing properties:** No data available.

**9.2 Other information**

**VOC Content:** 26 g/l

**SECTION 10: Stability and reactivity**

**10.1 Reactivity:** No data available.

**10.2 Chemical Stability:** Material is stable under normal conditions.

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|   |   |
|---|---|
| <b>10.3 Possibility of hazardous reactions:</b> | Hazardous polymerization does not occur.  |
| <b>10.4 Conditions to avoid:</b>                | Reacts with water liberating small amounts of acetic acid.  |
| <b>10.5 Incompatible Materials:</b>             | No data available.  |
| <b>10.6 Hazardous Decomposition Products:</b>   | Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation. |

**SECTION 11: Toxicological information**

**General information:** Experience has shown, that the above mentioned product can be used without any danger to health, as long as the usual conditions of industrial hygiene are observed.

**Information on likely routes of exposure**

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Ingestion:</b>    | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s)</b> |  |
| Octamethylcyclotetrasiloxane  | LD 50 (Rat): > 4.800 mg/kg                                 |
| Decamethylcyclopentasiloxane  | No data available.   |
| Dodecamethylcyclohexasiloxane | LD 50 (Rat): 2.000 mg/kg                                   |

**Dermal**

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s)</b> |  |
| Octamethylcyclotetrasiloxane  | LD 50 (Rat): > 2.375 mg/kg                                 |
| Decamethylcyclopentasiloxane  | LD 50 (Rabbit): > 2.000 mg/kg                              |
| Dodecamethylcyclohexasiloxane | LD 50 (Rat): 2.000 mg/kg                                   |

**Inhalation**

|                               |  |
|-------------------------------|--|
| <b>Product:</b>               | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s)</b> |  |
| Octamethylcyclotetrasiloxane  | LC50 (Rat, 4 h): 36 mg/l                                   |
| Decamethylcyclopentasiloxane  | LC50 (Rat, 4 h): 8,67 mg/l                                 |
| Dodecamethylcyclohexasiloxane | No data available.   |

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iloxane

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.

Decamethylcyclopentasiloxane NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg  
 NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg

Dodecamethylcyclohexasiloxane NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm  
 NOAEL (Rat(male and female), Oral): 1.000 mg/kg

**Skin Corrosion/Irritation:**

Not irritating

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane OECD Test Guideline 404 (Rabbit): Non irritating

Decamethylcyclopentasiloxane OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohexasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h):  
 No skin irritation

**Serious Eye Damage/Eye Irritation:**

Not irritating

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating

Decamethylcyclopentasiloxane OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

Dodecamethylcyclohexasiloxane OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Not irritating

**Respiratory or Skin**

**Sensitization:**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Not sensitizing

Decamethylcyclopentasiloxane LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Dodecamethylcyclohexasiloxane Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)  
 Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

Decamethylcyclopentasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guideline 476)): negative (not mutagenic)  
 Chromosomal aberration (OECD 473): negative (not mutagenic)

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Dodecamethylcyclohexasiloxane No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative  
 Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative  
 (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation  
 Decamethylcyclopentasiloxane (Rat, male and female)negative (not mutagenic) Vapor.  
 Dodecamethylcyclohexasiloxane OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.  
 Decamethylcyclopentasiloxane No data available.  
 Dodecamethylcyclohexasiloxane No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.  
 Decamethylcyclopentasiloxane No data available.  
 Dodecamethylcyclohexasiloxane No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.  
 Decamethylcyclopentasiloxane No data available.  
 Dodecamethylcyclohexasiloxane No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No data available.  
 Decamethylcyclopentasiloxane No data available.  
 Dodecamethylcyclohexasiloxane No data available.

**Aspiration Hazard**

**Product:** No data available.



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**Specified substance(s)**

|                               |                    |
|-------------------------------|--------------------|
| Octamethylcyclotetrasiloxane  | No data available. |
| Decamethylcyclopentasiloxane  | No data available. |
| Dodecamethylcyclohexasiloxane | No data available. |

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Components:**

|                               |                    |
|-------------------------------|--------------------|
| Octamethylcyclotetrasiloxane  | No data available. |
| Decamethylcyclopentasiloxane  | No data available. |
| Dodecamethylcyclohexasiloxane | No data available. |

**Other effects:**

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No toxicity at the limit of solubility ; LC50 (Oncorhynchus mykiss, 96 h): > 0,022 mg/l  
 Decamethylcyclopentasiloxane LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)  
 Dodecamethylcyclohexasiloxane No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No toxicity at the limit of solubility ; EC50 (Daphnia magna, 48 h): > 0,015 mg/l  
 Decamethylcyclopentasiloxane EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)  
 Dodecamethylcyclohexasiloxane No data available.

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l  
 Decamethylcyclopentasiloxane NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210)  
 LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)  
 Dodecamethylcyclohexasiloxane No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 91 d): 0,014 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): > 0,015 mg/l  
 Decamethylcyclopentasiloxane NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211)  
 LOEC (Daphnia magna, 21 d): > 0,0015 mg/l  
 Dodecamethylcyclohexasiloxane No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): 0,0046 mg/l  
 EC50 (Sediment Invertebrate, 28 d): > 420 mg/l  
 LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

Octamethylcyclotetrasiloxane No toxicity at the limit of solubility ; ErC50 (Selenastrum capricornutum, 96

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|                               |   |
|-------------------------------|---|
| ane                           | h): > 0,022 mg/l  |
| Decamethylcyclopentasiloxane  | EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD Test Guideline 201)<br>NOEC : >= 0,0012 mg/l<br>EC10 : > 0,0012 mg/l  |
| Dodecamethylcyclohexasiloxane | No effects at the limit of solubility. ; EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201)<br>No effects at the limit of solubility. ; NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201) |

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

|                               |  |
|-------------------------------|--|
| Octamethylcyclotetrasiloxane  | (29 d, 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable. |
| Decamethylcyclopentasiloxane  | activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.        |
| Dodecamethylcyclohexasiloxane | No data available.   |

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

|                               |                    |
|-------------------------------|--------------------|
| Octamethylcyclotetrasiloxane  | No data available. |
| Decamethylcyclopentasiloxane  | No data available. |
| Dodecamethylcyclohexasiloxane | No data available. |

**12.3 Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**

|                               |  |
|-------------------------------|--|
| Octamethylcyclotetrasiloxane  | Bioconcentration Factor (BCF): 12.400  |
| Decamethylcyclopentasiloxane  | Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test Guideline 305) |
| Dodecamethylcyclohexasiloxane | No data available.   |

**12.4 Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**

|                               |                    |
|-------------------------------|--------------------|
| Octamethylcyclotetrasiloxane  | No data available. |
| Decamethylcyclopentasiloxane  | No data available. |
| Dodecamethylcyclohexasiloxane | No data available. |

**12.5 Results of PBT and vPvB assessment:**

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

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|                               |  |   |
|-------------------------------|--|---|
| Octamethylcyclotetrasiloxane  | Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) | Octamethylcyclotetrasiloxane (D4) meets the current EU REACH Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.</i> |
| Decamethylcyclopentasiloxane  | vPvB: very persistent and very bioaccumulative substance.                                    | Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.</i>         |
| Dodecamethylcyclohexasiloxane | vPvB: very persistent and very bioaccumulative substance.                                    | Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms</i>         |

**12.6 Endocrine disrupting properties:**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:**

|                              |                    |
|------------------------------|--------------------|
| Octamethylcyclotetrasiloxane | No data available. |
| Decamethylcyclopentasiloxane | No data available. |

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Dodecamethylcyclohexa siloxane No data available.

**12.7 Other adverse effects:**

**Other hazards**

**Product:** No data available.

**Additional Information:** Ecotoxicological data for this product is not available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

**Disposal methods:** Can be incinerated when in compliance with local regulations.

**SECTION 14: Transport information**

**ADR**

Not regulated.

**ADN**

Not regulated.

**RID**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**14.6 Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from food, foodstuff, acids and bases.

**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:**

**EU Regulations**

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**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** none

**Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:** none

**EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):**

| Chemical name                 | CAS-No.  | Concentration |
|-------------------------------|----------|---------------|
| Octamethylcyclotetrasiloxane  | 556-67-2 | 0 - <=1,3000% |
| Decamethylcyclopentasiloxane  | 541-02-6 | 0 - <=0,2190% |
| Dodecamethylcyclohexasiloxane | 540-97-6 | 0 - <=0,1450% |

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**

| Chemical name                | CAS-No.  | Concentration |
|------------------------------|----------|---------------|
| Decamethylcyclopentasiloxane | 541-02-6 | 0,1 - 1,0%    |
| Octamethylcyclotetrasiloxane | 556-67-2 | 1,0 - 10%     |
| Acetic acid                  | 64-19-7  | 0,1 - 1,0%    |

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:**

| Chemical name                | CAS-No.  | Concentration |
|------------------------------|----------|---------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | 1,0 - 10%     |

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

| Classification  | Lower-tier Requirements | Upper-tier Requirements |
|---|-------------------------|-------------------------|
| O1. Substances or mixtures with hazard statement EUH014 | 100 t                   | 500 t                   |

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:** none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

| Chemical name                | CAS-No.  | Concentration |
|------------------------------|----------|---------------|
| Octamethylcyclotetrasiloxane | 556-67-2 | 1,0 - 10%     |
| Acetic acid                  | 64-19-7  | 0,1 - 1,0%    |

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**Inventory Status**

Australia Industrial Chem. Act (AIC):

On or in compliance with the inventory

Remarks: None.

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|  |  |   |
|--|--|---|
| Canada DSL Inventory List:               | Q (quantity restricted)  | Remarks: Please contact your supplier for further information on the inventory status of this material. |
| Canada NDSL Inventory:                   | Not in compliance with the inventory.  | Remarks: None.  |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory   | Remarks: None.  |
| Japan (ENCS) List:                       | On or in compliance with the inventory   | Remarks: None.  |
| Korea Existing Chemicals Inv. (KECI):    | On or in compliance with the inventory   | Remarks: None.  |
| New Zealand Inventory of Chemicals:      | On or in compliance with the inventory   | Remarks: None.  |
| Philippines PICCS:                       | On or in compliance with the inventory   | Remarks: None.  |
| Taiwan Chemical Substance Inventory:     | On or in compliance with the inventory   | Remarks: None.  |
| US TSCA Inventory:                       | On or in compliance with the inventory   | Remarks: None.  |
| REACH:                                   | If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants. | Remarks: None.  |

**SECTION 16: Other information**

**Revision Information:** Not relevant.

**Key literature references and sources for data:** The partition coefficient of D4 between PDMS and water has been determined as  $\log K_{PDMS-water} = 7.09$ . It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 µg D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 µg D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

**Wording of the H-statements in section 2 and 3**

- H226 Flammable liquid and vapor.
- H361f Suspected of damaging fertility.
- H410 Very toxic to aquatic life with long lasting effects.

**Training information:** No data available.

**Issue Date:** 28.10.2022

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**Disclaimer:**

**Notice to reader**

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

**Further Information**

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.

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