

RTV133

# SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

### 1.1 Product identifier

Product name: RTV133

### 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 been classified according to the legislation in force.

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567**

#### Health Hazards

|                 |            |                                            |
|-----------------|------------|--------------------------------------------|
| Skin sensitizer | Category 1 | H317: May cause an allergic skin reaction. |
|-----------------|------------|--------------------------------------------|

|                                                    |                   |                                                                          |
|----------------------------------------------------|-------------------|--------------------------------------------------------------------------|
| Specific Target Organ Toxicity - Repeated Exposure | Category 2 (Lung) | H373: May cause damage to organs through prolonged or repeated exposure. |
|----------------------------------------------------|-------------------|--------------------------------------------------------------------------|

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

### 2.2 Label Elements

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|                                 |                                                                                                                                                                                                                                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal Word:</b>             | Warning                                                                                                                                                                                                                                                                    |
| <b>Hazard Statement(s):</b>     | H317: May cause an allergic skin reaction.<br>H373: May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                     |
| <b>Precautionary Statements</b> |                                                                                                                                                                                                                                                                            |
| <b>Prevention:</b>              | P260: Do not breathe dust/fume/gas/mist/vapors/spray.<br>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                                                                                               |
| <b>Response:</b>                | P302+P352: IF ON SKIN: Wash with plenty of soap and water.<br>P333+P313: If skin irritation or rash occurs: Get medical advice/attention.<br>P362+P364: Take off contaminated clothing and wash it before reuse.<br>P314: Get medical advice/attention if you feel unwell. |

**Hazardous ingredients which must be listed on the label:**

QUARTZ  
Vinyltrimethoxysilane

**Supplemental information**

Restricted to professional users.

**Unknown toxicity - Health**

|                                          |        |
|------------------------------------------|--------|
| Acute toxicity, oral                     | 4,81 % |
| Acute toxicity, dermal                   | 0 %    |
| Acute toxicity, inhalation, vapor        | 4,85 % |
| Acute toxicity, inhalation, dust or mist | 4,85 % |

**Additional Information:** No data available.

**2.3 Other hazards**

No data available.

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

**3.2 Mixtures**

| Chemical name | Concentration | CAS-No.    | M-Factor:          | Notes |
|---------------|---------------|------------|--------------------|-------|
| QUARTZ        | 10 - <20%     | 14808-60-7 | No data available. | #     |

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|                                                |              |            |                                |          |
|------------------------------------------------|--------------|------------|--------------------------------|----------|
| Vinyltrimethoxysilane                          | 5 - <10%     | 2768-02-7  | No data available.             |          |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | 1 - <5%      | 27858-32-8 | No data available.             |          |
| Octamethylcyclotetrasiloxane                   | 0,01 - <0,1% | 556-67-2   | Aquatic Toxicity (Chronic): 10 | ##<br>## |

\* 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).

## This substance is listed as SVHC.

**Classification**

| Chemical name                                  | Classification                                                                                                                | Notes |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------|
| QUARTZ                                         | Classification: STOT RE: 2: H373<br>Supplemental label information: None known.                                               | None. |
| Vinyltrimethoxysilane                          | Classification: Skin Sens.: 1B: H317<br>Supplemental label information: None known.                                           | None. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | Classification: Flam. Liq.: 3: H226; Eye Dam.: 2: H319; STOT SE: 3: H336<br>Supplemental label information: None known.       | None. |
| Octamethylcyclotetrasiloxane                   | Classification: Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410<br>Supplemental label information: None known. | None. |

The full text for all H-statements is displayed in section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move into fresh air and keep at rest.                                                                       |
| <b>Skin Contact:</b> | After contact with skin, remove product mechanically. Wash area with soap and water. Get medical attention. |
| <b>Eye contact:</b>  | Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.             |
| <b>Ingestion:</b>    | Rinse mouth. Do NOT induce vomiting. Consult a physician for specific advice.                               |

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

|                  |                    |
|------------------|--------------------|
| <b>Symptoms:</b> | No data available. |
| <b>Hazards:</b>  | No data available. |

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

|                   |                    |
|-------------------|--------------------|
| <b>Treatment:</b> | No data available. |
|-------------------|--------------------|

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**SECTION 5: Firefighting measures**

**General Fire Hazards:**

Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**5.1 Extinguishing media**

**Suitable extinguishing media:**

All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:**

Avoid water in straight hose stream; will scatter and spread fire.

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

In case of fire, carbon monoxide and carbon dioxide may be formed. Reacts with water liberating small amounts of methanol.

**5.3 Advice for firefighters**

**Special fire-fighting procedures:**

Move container from fire area if it can be done without risk. Cool fire-endangered containers with water.

**Special protective equipment for fire-fighters:**

No data available.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Provide adequate ventilation. Use personal protective equipment.

**6.1.1 For non-emergency personnel:**

No data available.

**6.1.2 For emergency responders:**

No data available.

**6.2 Environmental Precautions:**

Do not allow runoff to sewer, waterway or ground.

**6.3 Methods and material for containment and cleaning up:**

Use mechanical handling equipment. 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**

**Safe handling advice:**

Methanol is formed during processing. Wear appropriate personal protective equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

**Safe storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

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**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 | Form of exposure | Exposure Limit Values |                       | Source          |
|---------------|------|------------------|-----------------------|-----------------------|-----------------|
| QUARTZ        | TWA  | Respirable       |                       | 0,1 mg/m <sup>3</sup> | EH40 WEL (2007) |

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

**Biological Limit Values**

| Chemical Identity                | Parameters / Sampling Time                                                         | Exposure Limit Values            | Source               |
|----------------------------------|------------------------------------------------------------------------------------|----------------------------------|----------------------|
| Isocyanatopropyltrimethoxysilane | Isocyanate-derived diamine<br>Sampling time: At the end of the period of exposure. | 1 umol/mol (Creatinine in urine) | UKEH40BMGV (01 2020) |

**DNEL-Values**

Remarks: DNEL-Values

| Critical component            | Type      | Route of Exposure | Health Warnings                                    | Remarks |
|-------------------------------|-----------|-------------------|----------------------------------------------------|---------|
| Vinyltrimethoxysilane         | Workers   | Dermal            | Acute, Systemic Toxicity 0,69 mg/kg bw /day        |         |
|                               | Workers   | Dermal            | long-term, Systemic Toxicity 0,69 mg/kg bw /day    |         |
| Decamethylcyclopentasiloxane  | Workers   | Inhalation        | Acute, Systemic Toxicity 258 mg/m <sup>3</sup>     |         |
|                               | Workers   | Inhalation        | Acute, Local 101 mg/m <sup>3</sup>                 |         |
|                               | Workers   | Inhalation        | long-term, Systemic Toxicity 405 mg/m <sup>3</sup> |         |
|                               | Workers   | Inhalation        | long-term, Local 101 mg/m <sup>3</sup>             |         |
|                               | Consumers | Inhalation        | Acute, Systemic Toxicity 86 mg/m <sup>3</sup>      |         |
|                               | Consumers | Inhalation        | Acute, Local 21 mg/m <sup>3</sup>                  |         |
|                               | Consumers | Ingestion         | long-term, Systemic Toxicity 25 mg/kg bw /day      |         |
|                               | Consumers | Inhalation        | long-term, Systemic Toxicity 86 mg/m <sup>3</sup>  |         |
| Octamethylcyclotetrasiloxane  | Consumers | Inhalation        | long-term, Local 21 mg/m <sup>3</sup>              |         |
|                               | Consumers | Inhalation        | Acute, Systemic Toxicity 305 mg/m <sup>3</sup>     |         |
|                               | Consumers | Inhalation        | Acute, Local 61 mg/m <sup>3</sup>                  |         |
|                               | Consumers | Inhalation        | long-term, Systemic Toxicity 305 mg/m <sup>3</sup> |         |
| Dodecamethylcyclohexasiloxane | Consumers | Inhalation        | long-term, Local 61 mg/m <sup>3</sup>              |         |
|                               | Workers   | Inhalation        | Acute, Systemic Toxicity 98 mg/m <sup>3</sup>      |         |
|                               | Workers   | Inhalation        | long-term, Systemic Toxicity 98 mg/m <sup>3</sup>  |         |

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|                  |           |            |                                                       |  |
|------------------|-----------|------------|-------------------------------------------------------|--|
|                  | Consumers | Inhalation | Acute, Systemic Toxicity<br>29 mg/m3                  |  |
|                  | Consumers | Inhalation | long-term, Systemic<br>Toxicity 29 mg/m3              |  |
|                  | Consumers | Ingestion  | long-term, Systemic<br>Toxicity 8,3 mg/kg<br>bw /day  |  |
| Trimethoxysilane | Workers   | Dermal     | Acute, Systemic Toxicity<br>0,17 mg/kg bw /day        |  |
|                  | Workers   | Inhalation | Acute, Systemic Toxicity<br>0,63 mg/m3                |  |
|                  | Workers   | Inhalation | Acute, Local 0,63<br>mg/m3                            |  |
|                  | Workers   | Dermal     | long-term, Systemic<br>Toxicity 0,17 mg/kg<br>bw /day |  |
|                  | Workers   | Inhalation | long-term, Systemic<br>Toxicity 0,63 mg/m3            |  |
|                  | Workers   | Inhalation | long-term, Local 0,63<br>mg/m3                        |  |

**PNEC-Values**

Remarks: PNEC-Values

| Critical component             | Environmental compartment | PNEC-Values  | Remarks                                                                         |
|--------------------------------|---------------------------|--------------|---------------------------------------------------------------------------------|
| Vinyltrimethoxysilane          | Water                     | 0,34 mg/l    |                                                                                 |
|                                | Seaw ater                 | 0,034 mg/l   |                                                                                 |
|                                | Intermittent release      | 3,4 mg/l     |                                                                                 |
|                                | Sediment                  | 0,27 mg/kg   | Derived from PNEC(freshw ater)<br>using the equilibrium partitioning<br>method. |
|                                | soil                      | 0,046 mg/kg  | Derived from PNEC(freshw ater)<br>using the equilibrium partitioning<br>method. |
| Decamethylcyclotetrasiloxane   | Sew age treatment plant   | 110 mg/l     |                                                                                 |
|                                | Water                     | 0,0012 mg/l  |                                                                                 |
|                                | Seaw ater                 | 0,00012 mg/l |                                                                                 |
|                                | Sediment                  | 11 mg/kg     |                                                                                 |
|                                | soil                      | 3,15 mg/kg   | Derived from PNEC(freshw ater)<br>using the equilibrium partitioning<br>method. |
| Octamethylcyclotetrasiloxane   | Sew age treatment plant   | 20 mg/l      |                                                                                 |
|                                | Water                     | 0,44 mg/l    |                                                                                 |
|                                | Seaw ater                 | 0,044 mg/l   |                                                                                 |
|                                | Sediment                  | 0,128 mg/kg  |                                                                                 |
|                                | soil                      | 0,16 mg/kg   |                                                                                 |
| Dodecamethylcyclotetrasiloxane | Sew age treatment plant   | 100 mg/l     |                                                                                 |
|                                | Water                     | 0,0002 mg/l  |                                                                                 |
|                                | Seaw ater                 | 0,00002 mg/l |                                                                                 |
|                                | Intermittent release      | 1,43 mg/kg   |                                                                                 |
|                                | Sediment                  | 3,78 mg/kg   |                                                                                 |
| Trimethoxysilane               | soil                      | 1 mg/l       |                                                                                 |
|                                | Sew age treatment plant   |              |                                                                                 |
|                                | Water                     | 15,4 mg/l    |                                                                                 |
|                                | Seaw ater                 | 1,5 mg/l     |                                                                                 |
|                                | Sediment                  | 13,5 mg/kg   | Derived from PNEC(freshw ater)<br>using the equilibrium partitioning<br>method. |
|                                | soil                      | 2,99 mg/kg   | Derived from PNEC(freshw ater)<br>using the equilibrium partitioning<br>method. |
|                                | Sew age treatment plant   | 1 mg/l       |                                                                                 |

**8.2 Exposure controls**

**Appropriate Engineering Controls:**

No data available.

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**Individual protection measures, such as personal protective equipment (PPE)**

|                                  |                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection:</b>      | Safety glasses with side-shields conforming to EN166                                                                                                                                    |
| <b>Hand Protection:</b>          | Additional Information: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.                                              |
| <b>Skin and Body Protection:</b> | No data available.                                                                                                                                                                      |
| <b>Respiratory Protection:</b>   | In case of inadequate ventilation use suitable respirator.                                                                                                                              |
| <b>Hygiene measures:</b>         | Provide adequate ventilation. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke. |
| <b>Environmental Controls:</b>   | No data available.                                                                                                                                                                      |

**SECTION 9: Physical and chemical properties**

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

**Appearance**

|                                                              |                              |
|--------------------------------------------------------------|------------------------------|
| <b>Physical state:</b>                                       | solid                        |
| <b>Form:</b>                                                 | Paste                        |
| <b>Color:</b>                                                | Black                        |
| <b>Odor:</b>                                                 | ester like                   |
| <b>Odor Threshold:</b>                                       | No data available.           |
| <b>Melting Point:</b>                                        | No data available.           |
| <b>Boiling Point:</b>                                        | No data available.           |
| <b>Flammability:</b>                                         | No data available.           |
| <b>Upper/lower limit on flammability or explosive limits</b> |                              |
| <b>Explosive limit - upper:</b>                              | No data available.           |
| <b>Explosive limit - lower:</b>                              | No data available.           |
| <b>Flash Point:</b>                                          | > 94 °C<br>Method: estimated |
| <b>Auto-ignition temperature:</b>                            | No data available.           |

**Decomposition Temperature:** No decomposition if stored and applied as directed.

**pH:** No data available.

**Viscosity**

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Dynamic viscosity:</b>   | No data available.                |
| <b>Kinematic viscosity:</b> | > 20,5 mm <sup>2</sup> /s (40 °C) |

**Solubility(ies)**

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|                                                 |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| <b>Solubility in Water:</b>                     | Insoluble                                               |
| <b>Solubility (other):</b>                      | Alcohols.<br>50 g/l (23 °C)<br>Dispersible<br>Insoluble |
| <b>Partition coefficient (n-octanol/water):</b> | No data available.                                      |
| <b>Vapor pressure:</b>                          | Not applicable                                          |
| <b>Relative density:</b>                        | ca.<br>1,23                                             |
| <b>Density:</b>                                 | ca.<br>1.230 g/cm3                                      |
| <b>Vapor density (air=1):</b>                   | No data available.                                      |

**9.2 Other information**

|                          |                     |
|--------------------------|---------------------|
| <b>Miscible (water):</b> | non miscible (<10%) |
|--------------------------|---------------------|

**SECTION 10: Stability and reactivity**

|                                                 |                                                                                                                                                                                              |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1 Reactivity:</b>                         | Reacts with water liberating small amounts of methanol.                                                                                                                                      |
| <b>10.2 Chemical Stability:</b>                 | Material is stable under normal conditions.                                                                                                                                                  |
| <b>10.3 Possibility of hazardous reactions:</b> | Under normal conditions of storage and use, hazardous polymerization will not occur.                                                                                                         |
| <b>10.4 Conditions to avoid:</b>                | Keep away from moisture. Keep away from heat, sparks and open flame.                                                                                                                         |
| <b>10.5 Incompatible Materials:</b>             | Strong Acids, Strong Bases                                                                                                                                                                   |
| <b>10.6 Hazardous Decomposition Products:</b>   | Carbon oxides Oxides of silicon. 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**

**11.1 Information on toxicological effects**

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

**Acute toxicity (list all possible routes of exposure)**

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| <b>Oral</b>        |                                                            |
| <b>Product:</b>    | Not classified for acute toxicity based on available data. |
| <b>Components:</b> |                                                            |

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|                                                |                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------|
| QUARTZ                                         | No data available.                                                                  |
| Vinyltrimethoxysilane                          | No data available.                                                                  |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                  |
| Octamethylcyclotetrasiloxane                   | LD 50, Rat, > 4.800 mg/kg, OECD-Guideline 401 (Acute Oral Toxicity), Not classified |

**Dermal**

|                                                |                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Product:</b>                                | Not classified for acute toxicity based on available data.                       |
| <b>Components:</b>                             |                                                                                  |
| QUARTZ                                         | No data available.                                                               |
| Vinyltrimethoxysilane                          | LD 50, Rabbit, > 3.460 - 4.000 mg/kg, OECD-Guideline 402 (Acute Dermal Toxicity) |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                               |
| Octamethylcyclotetrasiloxane                   | LD 50, Rat, > 2.375 mg/kg, OECD Test Guideline 402, Not classified               |

**Inhalation**

|                                                |                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Product:</b>                                | Not classified for acute toxicity based on available data.                                 |
| <b>Components:</b>                             |                                                                                            |
| QUARTZ                                         | No data available.                                                                         |
| Vinyltrimethoxysilane                          | LC 50, 2773 ppm, vapour                                                                    |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                         |
| Octamethylcyclotetrasiloxane                   | LC50, Rat, male and female, 4 h, 36 mg/l, Aerosol, OECD Test Guideline 403, Not classified |

**Repeated dose toxicity**

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Product:</b>                                | No data available. |
| <b>Components:</b>                             |                    |
| QUARTZ                                         | No data available. |
| Vinyltrimethoxysilane                          | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available. |
| Octamethylcyclotetrasiloxane                   | No data available. |

**Skin Corrosion/Irritation**

|                                                |                                                 |
|------------------------------------------------|-------------------------------------------------|
| <b>Product:</b>                                | No data available.                              |
| <b>Components:</b>                             |                                                 |
| QUARTZ                                         | No data available.                              |
| Vinyltrimethoxysilane                          | No skin irritation, Occluded (Dermal), Rabbit   |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                              |
| Octamethylcyclotetrasiloxane                   | OECD Test Guideline 404, Rabbit, Non irritating |

**Serious Eye Damage/Eye Irritation**

|                    |                    |
|--------------------|--------------------|
| <b>Product:</b>    | No data available. |
| <b>Components:</b> |                    |

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|                                                |                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------|
| QUARTZ                                         | No data available.                                                             |
| Vinyltrimethoxysilane                          | OECD-Guideline 405 (Acute Eye Irritation/Corrosion), Rabbit, No eye irritation |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                             |
| Octamethylcyclotetrasiloxane                   | OECD-Guideline 405 (Acute Eye Irritation/Corrosion), Rabbit, Non irritating    |

**Respiratory or Skin Sensitization**

|                                                |                                                                                         |
|------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                                      |
| <b>Components:</b>                             |                                                                                         |
| QUARTZ                                         | No data available.                                                                      |
| Vinyltrimethoxysilane                          | No data available.                                                                      |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                      |
| Octamethylcyclotetrasiloxane                   | Maximisation Test, OECD-Guideline 406 (Skin Sensitisation), Guinea Pig, Not sensitizing |

**Carcinogenicity**

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Product:</b>                                | No data available. |
| <b>Components:</b>                             |                    |
| QUARTZ                                         | No data available. |
| Vinyltrimethoxysilane                          | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available. |
| Octamethylcyclotetrasiloxane                   | Inhalation         |

**Germ Cell Mutagenicity**

**In vitro**

|                                                |                                                                                                                                    |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                                                                                 |
| <b>Components:</b>                             |                                                                                                                                    |
| QUARTZ                                         | No data available.                                                                                                                 |
| Vinyltrimethoxysilane                          | No data available.                                                                                                                 |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                                                                 |
| Octamethylcyclotetrasiloxane                   | Ames-Test, OECD-Guideline 471: , negative (not mutagenic)<br>Mouse Lymphoma Assay (OECD Guideline 476): , negative (not mutagenic) |

**In vivo**

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Product:</b>                                | No data available. |
| <b>Components:</b>                             |                    |
| QUARTZ                                         | No data available. |
| Vinyltrimethoxysilane                          | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available. |

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Octamethylcyclotetrasiloxane  
Chromosomal aberration, OECD 475, Inhalation, Rat, male and female, negative  
Dominant lethal assay, OECD 478, Oral, Rat, male and female, negative

**Reproductive toxicity**

**Product:** No data available.  
**Components:**  
QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetate)-diisopropoxy No data available.  
Octamethylcyclotetrasiloxane No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.  
**Components:**  
QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetate)-diisopropoxy No data available.  
Octamethylcyclotetrasiloxane No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.  
**Components:**  
QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetate)-diisopropoxy No data available.  
Octamethylcyclotetrasiloxane No data available.

**Aspiration Hazard**

**Product:** No data available.  
**Components:**  
QUARTZ No data available.  
Vinyltrimethoxysilane No data available.  
Titanium, Bis(ethyl acetoacetate)-diisopropoxy No data available.  
Octamethylcyclotetrasiloxane No data available.

**11.2 Information on other hazards**

**Other information**

**Product:** No data available.

**SECTION 12: Ecological information**

## 12.1 Toxicity:

### Toxicity to Aquatic Plants

|                                                |                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                                            |
| <b>Components:</b>                             |                                                                                               |
| QUARTZ                                         | No data available.                                                                            |
| Vinyltrimethoxysilane                          | No data available.                                                                            |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                            |
| Octamethylcyclotetrasiloxane                   | ErC50, Selenastrum capricornutum, 96 h, >, 0,022 mg/l, No toxicity at the limit of solubility |

### Toxicity to microorganisms

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Product:</b>                                | No data available. |
| <b>Components:</b>                             |                    |
| QUARTZ                                         | No data available. |
| Vinyltrimethoxysilane                          | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available. |
| Octamethylcyclotetrasiloxane                   | No data available. |

### Acute hazards to the aquatic environment:

#### Fish

|                                                |                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                                     |
| <b>Components:</b>                             |                                                                                        |
| QUARTZ                                         | No data available.                                                                     |
| Vinyltrimethoxysilane                          | No data available.                                                                     |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                     |
| Octamethylcyclotetrasiloxane                   | LC50, Oncorhynchus mykiss, 96 h, >, 0,022 mg/l, No toxicity at the limit of solubility |

#### Aquatic Invertebrates

|                                                |                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                               |
| <b>Components:</b>                             |                                                                                  |
| QUARTZ                                         | No data available.                                                               |
| Vinyltrimethoxysilane                          | No data available.                                                               |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                               |
| Octamethylcyclotetrasiloxane                   | EC50, Daphnia magna, 48 h, >, 0,015 mg/l, No toxicity at the limit of solubility |

### Chronic hazards to the aquatic environment:

#### Fish

|                       |                    |
|-----------------------|--------------------|
| <b>Product:</b>       | No data available. |
| <b>Components:</b>    |                    |
| QUARTZ                | No data available. |
| Vinyltrimethoxysilane | No data available. |

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|                                                                             |                                                                                          |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy Octamethylcyclotetrasiloxane | No data available.                                                                       |
|                                                                             | NOEC, Oncorhynchus mykiss, 93 d, >=, 0,0044 mg/l, No toxicity at the limit of solubility |

**Aquatic Invertebrates**

|                                                                             |                                                                                  |
|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Product:</b>                                                             | No data available.                                                               |
| <b>Components:</b>                                                          |                                                                                  |
| QUARTZ                                                                      | No data available.                                                               |
| Vinyltrimethoxysilane                                                       | No data available.                                                               |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy Octamethylcyclotetrasiloxane | No data available.                                                               |
|                                                                             | NOEC, Daphnia magna, 21 d, >, 0,015 mg/l, No toxicity at the limit of solubility |

**12.2 Persistence and Degradability**

**Biodegradation**

|                                                                             |                                                                                                                                      |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                                                             | No data available.                                                                                                                   |
| <b>Components:</b>                                                          |                                                                                                                                      |
| QUARTZ                                                                      | No data available.                                                                                                                   |
| Vinyltrimethoxysilane                                                       | 28 d, OECD-Guideline 301 F (Manometric Respirometry Test), The product is not readily biodegradable.                                 |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy Octamethylcyclotetrasiloxane | No data available.                                                                                                                   |
|                                                                             | 3,7 %, 29 d, 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test), Not readily biodegradable., Persistent |

**12.3 Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

|                                                                             |                    |
|-----------------------------------------------------------------------------|--------------------|
| <b>Product:</b>                                                             | No data available. |
| <b>Components:</b>                                                          |                    |
| QUARTZ                                                                      | No data available. |
| Vinyltrimethoxysilane                                                       | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy Octamethylcyclotetrasiloxane | No data available. |
|                                                                             | 12.400             |

**Partition Coefficient n-octanol / water (log Kow)**

|                                                                             |                    |
|-----------------------------------------------------------------------------|--------------------|
| <b>Product:</b>                                                             | No data available. |
| <b>Components:</b>                                                          |                    |
| QUARTZ                                                                      | No data available. |
| Vinyltrimethoxysilane                                                       | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy Octamethylcyclotetrasiloxane | No data available. |
|                                                                             | No data available. |

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**12.4 Mobility in soil:**

|                                                |                    |
|------------------------------------------------|--------------------|
| <b>Product:</b>                                | No data available. |
| <b>Components:</b>                             |                    |
| QUARTZ                                         | No data available. |
| Vinyltrimethoxysilane                          | No data available. |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available. |
| Octamethylcyclotetrasiloxane                   | No data available. |

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

|                                                |                                                                                                                                                                              |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                                | No data available.                                                                                                                                                           |
| <b>Components:</b>                             |                                                                                                                                                                              |
| QUARTZ                                         | No data available.                                                                                                                                                           |
| Vinyltrimethoxysilane                          | No data available.                                                                                                                                                           |
| Titanium, Bis(ethyl acetoacetate)-diisopropoxy | No data available.                                                                                                                                                           |
| Octamethylcyclotetrasiloxane                   | This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB). |

**12.6 Other adverse effects:**

**Other hazards**

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| <b>Additional Information:</b> | Ecotoxicological data for this product is not available. |
|--------------------------------|----------------------------------------------------------|

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

|                                |                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information:</b>    | The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment. |
| <b>Disposal methods:</b>       | Can be incinerated when in compliance with local regulations.                                                                                                                                                         |
| <b>Contaminated Packaging:</b> | Dispose of as unused product.                                                                                                                                                                                         |

**SECTION 14: Transport information**

**ADR**

Not Regulated.

**ADN**

SDS\_GB

RTV133

Not Regulated.

**RID**

Not Regulated.

**IATA**

Not Regulated.

**IMDG Code**

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. Protect from moisture. Keep away from food, foodstuff, acids and bases. keep away from odour sensitive materials

**14.7 Maritime transport in bulk according to IMO instruments**

Product is not transported in bulk.

**SECTION 15: Regulatory information**

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

**UK. REACH, Annex XIV, Substances Subject to Authorization (Authorization List), as amended:** None present or none present in regulated quantities.

**UK. UK REACH Candidate List of substances of very high concern (SVHCs) for Authorisation:** None present or none present in regulated quantities.

**UK. Great Britain Assimilated Regulation (EU) 2019/1021 on Persistent Organic Pollutants, as amended:** None present or none present in regulated quantities.

**Regulation 2024/590/EC on substances that deplete the ozone layer, Annex I, Controlled Substances:** None present or none present in regulated quantities.

**Regulation 2024/590/EC on substances that deplete the ozone layer, Annex II, New Substances:** None present or none present in regulated quantities.

**UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended:** None present or none present in regulated quantities.

**UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended:** None present or none present in regulated quantities.

**UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended:** None present or none present in regulated quantities.

**UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended:** None present or none present in regulated quantities.

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**EU. REACH Annex XVII, Substances subject to restriction on marketing and use :**

| Chemical name                | CAS-No.    | Number on list |
|------------------------------|------------|----------------|
| Vinyltrimethoxysilane        | 2768-02-7  | 3              |
| Decamethylcyclopentasiloxane | 541-02-6   | 70             |
| Octamethylcyclotetrasiloxane | 556-67-2   | 70             |
| Methanol                     | 67-56-1    |                |
| 2-Propanol                   | 67-63-0    | 3, 40          |
| platinum-siloxane complex    | 68585-32-0 | 3              |
| TITANIUM DIOXIDE             | 13463-67-7 | 3              |
| Toluene                      | 108-88-3   | 48             |

**EU. Directive 2012/18/EU on major accident hazards involving dangerous substances, Annex I, as amended:** None present or none present in regulated quantities.

**International regulations**

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**Inventory Status**

|                                          |                                        |                |
|------------------------------------------|----------------------------------------|----------------|
| Australia Industrial Chem. Act (AIC):    | Not in compliance with the inventory.  | Remarks: None. |
| Canada DSL Inventory List:               | On or in compliance with the inventory | Remarks: None. |
| 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. |

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|                                      |                                        |                                    |
|--------------------------------------|----------------------------------------|------------------------------------|
| 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: Commercial Status: Active |

**SECTION 16: Other information**

**Date of first report version:** 12.11.2025

**Generation date:** 12.11.2025

**Version #:** 1.0

**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

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567**

| Classification                                                 | Classification procedure |
|----------------------------------------------------------------|--------------------------|
| Skin sensitizer, Category 1                                    | On basis of test data    |
| Specific Target Organ Toxicity - Repeated Exposure, Category 2 | On basis of test data    |

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

|       |                                                                    |
|-------|--------------------------------------------------------------------|
| H226  | Flammable liquid and vapor.                                        |
| H317  | May cause an allergic skin reaction.                               |
| H319  | Causes serious eye irritation.                                     |
| H336  | May cause drowsiness or dizziness.                                 |
| H361f | Suspected of damaging fertility.                                   |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H410  | Very toxic to aquatic life with long lasting effects.              |
|       | Restricted to professional users.                                  |

**Training information:** No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.