



## SAFETY DATA SHEET

### SILASTIC 2451U SILICONE RUBBER COMPOUND

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

##### 1.1. Product identifier

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Product name             | SILASTIC 2451U SILICONE RUBBER COMPOUND                                                                    |
| Product number           | 61074                                                                                                      |
| Synonyms; trade names    | XIAMETER 2451U                                                                                             |
| REACH registration notes | This product is not classified as hazardous, the information in this datasheet is given for guidance only. |

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

|                 |          |
|-----------------|----------|
| Identified uses | Polymers |
|-----------------|----------|

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

|          |                                                                                                                                                                     |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Univar Solutions UK Ltd<br>Aquarius House<br>6 Mid Point Business Park<br>Bradford<br>BD3 7AY<br>+44 1274 267300<br>+44 1274 267306<br>SDS.EMEA@univarsolutions.com |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|

##### 1.4. Emergency telephone number

|                     |                                |
|---------------------|--------------------------------|
| Emergency telephone | SGS - +32 (0)3 575 55 55 (24h) |
| Sds No.             | 61074                          |

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

|                       |                |
|-----------------------|----------------|
| Physical hazards      | Not Classified |
| Health hazards        | Not Classified |
| Environmental hazards | Not Classified |

##### 2.2. Label elements

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Hazard statements              | NC Not Classified                              |
| Supplemental label information | EUH210 Safety data sheet available on request. |

##### 2.3. Other hazards

This product contains a substance classified as vPvB. This product contains a substance classified as PBT. 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.

**SILASTIC 2451U SILICONE RUBBER COMPOUND****SECTION 3: Composition/information on ingredients****3.2. Mixtures****CRISTOBALITE****= 2.3 - <= 3.0 %**

CAS number: 14464-46-1

EC number: 238-455-4

**Classification**

STOT RE 1 - H372

**DODECAMETHYLCYCLOHEXASILOXANE****>= 1.6 - <= 1.8 %**

CAS number: 540-97-6

EC number: 208-762-8

REACH registration number: 01-  
2119517435-42-XXXX

ATE: Acute Toxicity Estimate.Oral&gt; 2000 mg/kg

ATE: Acute Toxicity Estimate.Dermal&gt; 2000 mg/kg

**Classification**

Not Classified

**BARIUM ZIRCONIUM TRIOXIDE****>= 1.1 - <= 1.2 %**

CAS number: 12009-21-1

EC number: 234-546-8

Acute Toxicity Estimate (oral):1980 mg/kg

Acute Toxicity Estimate (inhalation):1.5 mg/lDust/Mist4 hours

**Classification**

Acute Tox. 4 - H302

Acute Tox. 4 - H332

**DECAMETHYLCYCLOPENTASILOXANE****>= 0.46 - <= 0.51 %**

CAS number: 541-02-6

EC number: 208-764-9

REACH registration number: 01-  
2119511367-43-XXXX

ATE: Acute Toxicity Estimate.Oral&gt; 24134 mg/kg

ATE: Acute Toxicity Estimate.Inhalation8.67 mg/l4 hoursDust/Mist

ATE: Acute Toxicity Estimate.Dermal&gt; 2000 mg/kg

**Classification**

Not Classified

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### OCTAMETHYLCYCLOTETRASILOXANE

>= 0.34 - <= 0.38 %

CAS number: 556-67-2

EC number: 209-136-7

M factor (Chronic) = 10

Acute Toxicity Estimate (oral):> 4800 mg/kg

Acute Toxicity Estimate (inhalation):36 mg/l4 hoursDust/Mist

Acute Toxicity Estimate (dermal):> 2400 mg/kg

#### Classification

Flam. Liq. 3 - H226

Repr. 2 - H361f

Aquatic Chronic 1 - H410

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]

>= 0.34 - <= 0.38 %

CAS number: 13463-67-7

EC number: 236-675-5

REACH registration number: 01-2119489379-17-XXXX

Acute Toxicity Estimate (oral):> 10000 mg/kg

Acute Toxicity Estimate (inhalation):> 6.82 mg/l4 hoursDust/Mist

Acute Toxicity Estimate (dermal):10000 mg/kg

#### Classification

Carc. 2 - H351

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b> | Wear protective clothing as described in Section 8 of this safety data sheet.                                                                                                                |
| <b>Inhalation</b>          | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.     |
| <b>Ingestion</b>           | Rinse nose and mouth with water. Do not induce vomiting. Get medical attention if any discomfort continues.                                                                                  |
| <b>Skin contact</b>        | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.                       |
| <b>Eye contact</b>         | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if any discomfort continues. |

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

|                    |                                                                      |
|--------------------|----------------------------------------------------------------------|
| <b>Eye contact</b> | Solid particles trapped behind the eyelid may cause abrasive damage. |
|--------------------|----------------------------------------------------------------------|

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

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. If in doubt, get medical attention promptly. |
|-----------------------------|---------------------------------------------------------------------|

## SECTION 5: Firefighting measures

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** When heated and in case of fire, toxic vapours/gases may be formed. The product increases the risk of fire and may accelerate combustion.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Metal oxide(s). Formaldehyde Oxides of the following substances: Carbon. Silicon.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. Contain and collect extinguishing water. Avoid the spillage or runoff entering drains, sewers or watercourses. Evacuate area.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Eliminate all sources of ignition.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Avoid spilling. Avoid release to the environment. Observe good chemical hygiene practices. Product residues retained in emptied containers can be hazardous.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labelled containers. Store locked up. Store away from the following materials: Strong oxidising agents.

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### DECAMETHYLCYCLOPENTASILOXANE

Long-term exposure limit (8-hour TWA): SUP 10 ppm

##### OCTAMETHYLCYCLOTETRAISILOXANE

Long-term exposure limit (8-hour TWA): SUP 10 ppm

##### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

WEL = Workplace Exposure Limit.

**Ingredient comments** Observe any occupational exposure limits for the product or ingredients.

#### DODECAMETHYLCYCLOHEXASILOXANE (CAS: 540-97-6)

##### DNEL

Workers - Inhalation; Long term systemic effects: 11 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 6.1 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 1.22 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 1.7 mg/kg/day  
 Consumer - Inhalation; Short term local effects: 1.5 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 2.7 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 1.7 mg/kg/day  
 Consumer - Inhalation; Long term local effects: 0.3 mg/m<sup>3</sup>

##### PNEC

- Sediment (Freshwater); 2.826 mg/kg  
 - Sediment (Marinewater); 0.282 mg/kg  
 - Soil; 3.336 mg/kg  
 - STP; >1.0 mg/l

#### DECAMETHYLCYCLOPENTASILOXANE (CAS: 541-02-6)

##### DNEL

Workers - Inhalation; Short term systemic effects: 97.3 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 24.2 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term systemic effects: 97.3 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 24.2 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 17.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 4.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 17.3 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 4.3 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 5 mg/kg/day  
 Consumer - Oral; Long term systemic effects: 5 mg/kg/day

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|      |                                      |
|------|--------------------------------------|
| PNEC | - Fresh water; >0.0012 mg/l          |
|      | - marine water; >0.00012 mg/l        |
|      | - Sediment (Freshwater); 2.4 mg/kg   |
|      | - Sediment (Marinewater); 0.24 mg/kg |
|      | - Soil; 1.1 mg/kg                    |
|      | - STP; >10 mg/l                      |

### OCTAMETHYLCYCLOTETRASILOXANE (CAS: 556-67-2)

|      |                                                                         |
|------|-------------------------------------------------------------------------|
| DNEL | Workers - Inhalation; Long term systemic effects: 73 mg/m <sup>3</sup>  |
|      | Workers - Inhalation; Long term local effects: 73 mg/m <sup>3</sup>     |
|      | Consumer - Inhalation; Long term systemic effects: 13 mg/m <sup>3</sup> |
|      | Consumer - Oral; Long term systemic effects: 3.7 mg/kg/day              |
|      | Consumer - Inhalation; Long term local effects: 13 mg/m <sup>3</sup>    |

|      |                                     |
|------|-------------------------------------|
| PNEC | - Fresh water; 0.0015 mg/l          |
|      | - marine water; 0.00015 mg/l        |
|      | - Sediment (Freshwater); 3 mg/kg    |
|      | - Sediment (Marinewater); 0.3 mg/kg |
|      | - Soil; 0.54 mg/kg                  |
|      | - STP; 10 mg/l                      |

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (CAS: 13463-67-7)

|                     |                                                                            |
|---------------------|----------------------------------------------------------------------------|
| Ingredient comments | WEL = Workplace Exposure Limits                                            |
| DNEL                | Workers - Inhalation; Long term local effects: 0.170 mg/m <sup>3</sup>     |
|                     | Consumer - Inhalation; Long term systemic effects: 0.028 mg/m <sup>3</sup> |
| PNEC                | - Fresh water; 0.184 mg/l                                                  |
|                     | - marine water; 0.0184 mg/l                                                |
|                     | Intermittent release; 0.193 mg/l                                           |
|                     | - Sediment (Freshwater); 1000 mg/kg                                        |
|                     | - Sediment (Marinewater); 100 mg/kg                                        |
|                     | - Soil; 100 mg/kg                                                          |
|                     | - STP; 100 mg/l                                                            |

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection</b>                | The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Polyvinyl chloride (PVC). Neoprene. Nitrile rubber. Thickness: > 0.35 mm To protect hands from chemicals, gloves should comply with European Standard EN374.                                                                      |
| <b>Other skin and body protection</b> | Wear appropriate clothing to prevent skin contamination.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Hygiene measures</b>               | When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.                                                                                                           |
| <b>Respiratory protection</b>         | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. Combination filter, type A2/P2. EN 136/140/141/145/143/149 |

### SECTION 9: Physical and chemical properties

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

|                                                     |                           |
|-----------------------------------------------------|---------------------------|
| <b>Appearance</b>                                   | Rubber                    |
| <b>Colour</b>                                       | White.                    |
| <b>Odour</b>                                        | Odourless.                |
| <b>Odour threshold</b>                              | No information available. |
| <b>pH</b>                                           | Not applicable.           |
| <b>Melting point</b>                                | No information available. |
| <b>Pour Point</b>                                   | No information available. |
| <b>Freezing Point</b>                               | Not determined.           |
| <b>Initial boiling point and range</b>              | Not applicable.           |
| <b>Flash point</b>                                  | Not applicable.           |
| <b>Evaporation rate</b>                             | Not applicable.           |
| <b>Evaporation factor</b>                           | No information available. |
| <b>Flammability (solid, gas)</b>                    | No information available. |
| <b>Upper/lower flammability or explosive limits</b> | No information available. |
| <b>Other flammability</b>                           | No information available. |
| <b>Vapour pressure</b>                              | Not applicable.           |
| <b>Vapour density</b>                               | No information available. |
| <b>Relative density</b>                             | 1.16                      |
| <b>Bulk density</b>                                 | No information available. |
| <b>Solubility(ies)</b>                              | Not determined.           |
| <b>Partition coefficient</b>                        | Not determined.           |
| <b>Auto-ignition temperature</b>                    | No information available. |

## SILASTIC 2451U SILICONE RUBBER COMPOUND

|                                                 |                                                             |
|-------------------------------------------------|-------------------------------------------------------------|
| <b>Decomposition Temperature</b>                | No information available.                                   |
| <b>Viscosity</b>                                | Not applicable.                                             |
| <b>Explosive properties</b>                     | Not considered to be explosive.                             |
| <b>Explosive under the influence of a flame</b> | No information available.                                   |
| <b>Oxidising properties</b>                     | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Refractive index</b>          | No information available. |
| <b>Particle size</b>             | No information available. |
| <b>Molecular weight</b>          | No information available. |
| <b>Volatility</b>                | No information available. |
| <b>Saturation concentration</b>  | No information available. |
| <b>Critical temperature</b>      | No information available. |
| <b>Volatile organic compound</b> | No information available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---------------------------------------------------------------------|

### 10.2. Chemical stability

|                  |                                                                     |
|------------------|---------------------------------------------------------------------|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---------------------------------------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                           |                                                                                                                                                                                                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Possibility of hazardous reactions</b> | The following materials may react with the product: Strong oxidising agents. Will decompose at temperatures exceeding 150°C. When heated, vapours/gases hazardous to health may be formed. Formaldehyde |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 10.4. Conditions to avoid

|                            |             |
|----------------------------|-------------|
| <b>Conditions to avoid</b> | None known. |
|----------------------------|-------------|

### 10.5. Incompatible materials

|                           |                          |
|---------------------------|--------------------------|
| <b>Materials to avoid</b> | Strong oxidising agents. |
|---------------------------|--------------------------|

### 10.6. Hazardous decomposition products

|                                         |                                                                                                                                                                                    |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Metal oxide(s). Formaldehyde Oxides of the following substances: Carbon. Silicon. |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

|                                     |                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes (oral LD<sub>50</sub>)</b> | This product has low toxicity. Not determined. Information given is applicable to the major ingredient. LD <sub>50</sub> > 5000 mg/kg, Oral, Rat Estimated value. |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |           |
|-------------------------|-----------|
| <b>ATE oral (mg/kg)</b> | 180,000.0 |
|-------------------------|-----------|

#### Acute toxicity - dermal

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|                                                                  |                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes (dermal LD<sub>50</sub>)</b>                            | Not determined. Information given is applicable to the major ingredient. LD <sub>50</sub> > 2000 mg/kg, Dermal, Estimated value.                                                                                                                            |
| <b><u>Acute toxicity - inhalation</u></b>                        |                                                                                                                                                                                                                                                             |
| <b>Notes (inhalation LC<sub>50</sub>)</b>                        | Not determined.                                                                                                                                                                                                                                             |
| <b>ATE inhalation (dusts/mists mg/l)</b>                         | 136.36                                                                                                                                                                                                                                                      |
| <b><u>Skin corrosion/irritation</u></b>                          |                                                                                                                                                                                                                                                             |
| <b>Skin corrosion/irritation</b>                                 | Information given is applicable to the major ingredient. Not irritating.                                                                                                                                                                                    |
| <b><u>Serious eye damage/irritation</u></b>                      |                                                                                                                                                                                                                                                             |
| <b>Serious eye damage/irritation</b>                             | Information given is applicable to the major ingredient. May cause temporary eye irritation.                                                                                                                                                                |
| <b><u>Respiratory sensitisation</u></b>                          |                                                                                                                                                                                                                                                             |
| <b>Respiratory sensitisation</b>                                 | No information available.                                                                                                                                                                                                                                   |
| <b><u>Skin sensitisation</u></b>                                 |                                                                                                                                                                                                                                                             |
| <b>Skin sensitisation</b>                                        | Information given is applicable to the major ingredient. Not sensitising. Guinea pig                                                                                                                                                                        |
| <b><u>Germ cell mutagenicity</u></b>                             |                                                                                                                                                                                                                                                             |
| <b>Genotoxicity - in vitro</b>                                   | Information given is applicable to the major ingredient. Negative.                                                                                                                                                                                          |
| <b><u>Carcinogenicity</u></b>                                    |                                                                                                                                                                                                                                                             |
| <b>Carcinogenicity</b>                                           | No information available.                                                                                                                                                                                                                                   |
| <b><u>Reproductive toxicity</u></b>                              |                                                                                                                                                                                                                                                             |
| <b>Reproductive toxicity - fertility</b>                         | Contains a substance/a group of substances which may damage fertility.                                                                                                                                                                                      |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |                                                                                                                                                                                                                                                             |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure.                                                                                                                                                                                 |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |                                                                                                                                                                                                                                                             |
| <b>STOT - repeated exposure</b>                                  | Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.                                                                                                                |
| <b><u>Aspiration hazard</u></b>                                  |                                                                                                                                                                                                                                                             |
| <b>Aspiration hazard</b>                                         | Based on available data the classification criteria are not met.                                                                                                                                                                                            |
| <b><u>Toxicokinetics</u></b>                                     | 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. |
| <b>Inhalation</b>                                                | Dust may irritate the eyes and the respiratory system.                                                                                                                                                                                                      |
| <b>Ingestion</b>                                                 | May cause discomfort if swallowed.                                                                                                                                                                                                                          |
| <b>Skin contact</b>                                              | Skin irritation should not occur when used as recommended.                                                                                                                                                                                                  |
| <b>Eye contact</b>                                               | May cause temporary eye irritation.                                                                                                                                                                                                                         |
| <b><u>Toxicological information on ingredients.</u></b>          |                                                                                                                                                                                                                                                             |

### CRISTOBALITE

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Not determined.

#### Acute toxicity - dermal

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|                                                                  |                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes (dermal LD<sub>50</sub>)</b>                            | Not determined.                                                                                                                                                                                                                                             |
| <b><u>Acute toxicity - inhalation</u></b>                        |                                                                                                                                                                                                                                                             |
| <b>Notes (inhalation LC<sub>50</sub>)</b>                        | Not determined.                                                                                                                                                                                                                                             |
| <b><u>Skin corrosion/irritation</u></b>                          |                                                                                                                                                                                                                                                             |
| <b>Skin corrosion/irritation</b>                                 | May cause mechanical irritation. Dryness and/or cracking.                                                                                                                                                                                                   |
| <b><u>Serious eye damage/irritation</u></b>                      |                                                                                                                                                                                                                                                             |
| <b>Serious eye damage/irritation</b>                             | Solid particles trapped behind the eyelid may cause abrasive damage.                                                                                                                                                                                        |
| <b><u>Respiratory sensitisation</u></b>                          |                                                                                                                                                                                                                                                             |
| <b>Respiratory sensitisation</b>                                 | No information available.                                                                                                                                                                                                                                   |
| <b><u>Skin sensitisation</u></b>                                 |                                                                                                                                                                                                                                                             |
| <b>Skin sensitisation</b>                                        | No information available.                                                                                                                                                                                                                                   |
| <b><u>Germ cell mutagenicity</u></b>                             |                                                                                                                                                                                                                                                             |
| <b>Genotoxicity - in vitro</b>                                   | No information available.                                                                                                                                                                                                                                   |
| <b><u>Carcinogenicity</u></b>                                    |                                                                                                                                                                                                                                                             |
| <b>Carcinogenicity</b>                                           | No information available.                                                                                                                                                                                                                                   |
| <b><u>Reproductive toxicity</u></b>                              |                                                                                                                                                                                                                                                             |
| <b>Reproductive toxicity - fertility</b>                         | No evidence of reproductive toxicity in animal studies.                                                                                                                                                                                                     |
| <b>Reproductive toxicity - development</b>                       | No information available.                                                                                                                                                                                                                                   |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |                                                                                                                                                                                                                                                             |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure.                                                                                                                                                                                 |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |                                                                                                                                                                                                                                                             |
| <b>STOT - repeated exposure</b>                                  | Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled. Dose level: ≤0.02 mg/l/6h/d , Dust/Mist, Inhalation, LOAEL 0.053 mg/m <sup>3</sup> , Dust/Mist, Inhalation, Human                                                        |
| <b><u>Aspiration hazard</u></b>                                  |                                                                                                                                                                                                                                                             |
| <b>Aspiration hazard</b>                                         | Based on available data the classification criteria are not met.                                                                                                                                                                                            |
| <b><u>Toxicokinetics</u></b>                                     |                                                                                                                                                                                                                                                             |
| <b>Toxicokinetics</b>                                            | 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. |
| <b>Inhalation</b>                                                | May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.                                                                                                                                                                       |
| <b>Ingestion</b>                                                 | May cause discomfort if swallowed.                                                                                                                                                                                                                          |
| <b>Skin contact</b>                                              | May cause mechanical irritation. Dryness and/or cracking.                                                                                                                                                                                                   |
| <b>Eye contact</b>                                               | Solid particles trapped behind the eyelid may cause abrasive damage.                                                                                                                                                                                        |

**SILASTIC 2451U SILICONE RUBBER COMPOUND****DODECAMETHYLCYCLOHEXASILOXANE****Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Oral, Rat

**Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

**Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** Not determined.

**Skin corrosion/irritation**

**Skin corrosion/irritation** Not irritating.

**Serious eye damage/irritation**

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

**Respiratory sensitisation**

**Respiratory sensitisation** No information available.

**Skin sensitisation**

**Skin sensitisation** Not sensitising. Guinea pig

**Germ cell mutagenicity**

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties. Negative.

**Carcinogenicity**

**Carcinogenicity** No information available.

**Reproductive toxicity**

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

**Specific target organ toxicity - single exposure**

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

**Aspiration hazard**

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

**Toxicokinetics**

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.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Skin irritation should not occur when used as recommended.

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

**SILASTIC 2451U SILICONE RUBBER COMPOUND****BARIUM ZIRCONIUM TRIOXIDE****Acute toxicity - oral**

Acute toxicity oral (LD<sub>50</sub> mg/kg) 1,980.0

Species Rat

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 1980 mg/kg, Oral, Harmful if swallowed.

ATE oral (mg/kg) 1,980.0

**Acute toxicity - dermal**

Notes (dermal LD<sub>50</sub>) Not determined.

**Acute toxicity - inhalation**

Notes (inhalation LC<sub>50</sub>) Harmful if inhaled. LC<sub>50</sub> 1.5 mg/l, 4 hours, Dust/Mist

ATE inhalation (dusts/mists mg/l) 1.5

**Skin corrosion/irritation**

Skin corrosion/irritation No information available.

**Serious eye damage/irritation**

Serious eye damage/irritation No information available.

**Respiratory sensitisation**

Respiratory sensitisation No information available.

**Skin sensitisation**

Skin sensitisation No information available.

**Germ cell mutagenicity**

Genotoxicity - in vitro No information available.

**Carcinogenicity**

Carcinogenicity No information available.

**Reproductive toxicity**

Reproductive toxicity - fertility No information available.

**Specific target organ toxicity - single exposure**

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure**

STOT - repeated exposure No information available.

**Aspiration hazard**

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

## SILASTIC 2451U SILICONE RUBBER COMPOUND

|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicokinetics</b> | 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. |
| <b>Inhalation</b>     | Harmful if inhaled.                                                                                                                                                                                                                                         |
| <b>Ingestion</b>      | Harmful if swallowed.                                                                                                                                                                                                                                       |
| <b>Skin contact</b>   | May be slightly irritating to skin.                                                                                                                                                                                                                         |
| <b>Eye contact</b>    | May cause temporary eye irritation.                                                                                                                                                                                                                         |

### DECAMETHYLCYCLOPENTASILOXANE

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 24134 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 8.67

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> 8.67 mg/l, 4 hours, Dust/Mist Rat

**ATE inhalation (dusts/mists mg/l)** 8.67

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

#### Respiratory sensitisation

**Respiratory sensitisation** No information available.

#### Skin sensitisation

**Skin sensitisation** Not sensitising. Mouse

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties. Negative.

#### Carcinogenicity

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

#### Reproductive toxicity

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

## SILASTIC 2451U SILICONE RUBBER COMPOUND

**Reproductive toxicity - development** No evidence of reproductive toxicity in animal studies.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

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

### **Toxicokinetics**

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.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Skin irritation should not occur when used as recommended.

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

## OCTAMETHYLCYCLOTETrasiloxane

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 4800 mg/kg, Oral, Rat

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> > 2400 mg/kg, Dermal, Rat

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> 36 mg/l, 4 hours, Dust/Mist Rat OECD 403

### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

### Serious eye damage/irritation

**Serious eye damage/irritation** Not irritating.

### Respiratory sensitisation

**Respiratory sensitisation** No information available.

### Skin sensitisation

**Skin sensitisation** Not sensitising. Guinea pig

### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties. Negative.

### Carcinogenicity

## SILASTIC 2451U SILICONE RUBBER COMPOUND

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

### Reproductive toxicity

**Reproductive toxicity - fertility** Suspected of damaging fertility. Two-generation study - , Inhalation, Vapour, Rat

**Reproductive toxicity - development** Teratogenicity: Based on available data the classification criteria are not met.  
Developmental toxicity: - : , Inhalation, Vapour, Rabbit

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure. No adverse effects known., Dose level: <= 100 mg/kg, Oral, Rat No adverse effects known., Dose level: <= 1mg/l/6h/d , Inhalation, Vapour, No adverse effects known., Dose level: <= 200 mg/kg, Dermal,

### Aspiration hazard

**Aspiration hazard** May be harmful if swallowed and enters airways.

### **Toxicokinetics**

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.

**Inhalation** Gas or vapour in high concentrations may irritate the respiratory system.

**Ingestion** May be harmful if swallowed and enters airways.

**Skin contact** Skin irritation should not occur when used as recommended.

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

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### Medical considerations

Octamethylcyclotetrasiloxane administered to rats by inhalation at concentrations of 500 and 700 ppm resulted in statistically significant decreases in the number of pups born and the live litter size in both the first and second generations. Prolonged estrous cycles, and decreased mating and fertility indices were observed following 700 ppm exposure in the second generation only. There were also increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia). Results from a 2 year repeated vapor inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health [http://www.ec.gc.ca/substances/ese/eng/challenge/batch2/batch2\\_556-67-2.cfm](http://www.ec.gc.ca/substances/ese/eng/challenge/batch2/batch2_556-67-2.cfm)). Repeated exposure in rats to D4 resulted in what appears to be protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 10,000.0

Species Rat

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 10000 mg/kg, Oral, Rat

ATE oral (mg/kg) 10,000.0

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 10000 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> > 6.82 mg/l, 4 hours, Dust/Mist Rat

#### Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

#### Serious eye damage/irritation

Serious eye damage/irritation Solid particles trapped behind the eyelid may cause abrasive damage.

#### Respiratory sensitisation

Respiratory sensitisation No information available.

#### Skin sensitisation

Skin sensitisation Not sensitising. Mouse Guinea pig

#### Germ cell mutagenicity

Genotoxicity - in vitro Ames test Negative. OECD 471

#### Carcinogenicity

## SILASTIC 2451U SILICONE RUBBER COMPOUND

**Carcinogenicity** Suspected of causing cancer by inhalation.

### Reproductive toxicity

**Reproductive toxicity - fertility** No information available.

**Reproductive toxicity - development** No information available.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** No information available.

### Aspiration hazard

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

### **Toxicokinetics**

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.

### **Inhalation**

Dust may irritate the respiratory system. Coughing, chest tightness, feeling of chest pressure. May cause cancer by inhalation.

### **Ingestion**

May cause discomfort if swallowed.

### **Skin contact**

Skin irritation should not occur when used as recommended.

### **Eye contact**

Solid particles trapped behind the eyelid may cause abrasive damage.

### **Route of exposure**

Inhalation

## SECTION 12: Ecological information

### **Ecotoxicity**

The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

### Ecological information on ingredients.

#### CRISTOBALITE

### **Ecotoxicity**

The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### DODECAMETHYLCYCLOHEXASILOXANE

### **Ecotoxicity**

The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### BARIUM ZIRCONIUM TRIOXIDE

### **Ecotoxicity**

The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

#### DECAMETHYLCYCLOPENTASILOXANE

## SILASTIC 2451U SILICONE RUBBER COMPOUND

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

### OCTAMETHYLCYCLOTETRASILOXANE

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

**Ecotoxicity** The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### Ecological information on ingredients.

### CRISTOBALITE

**Toxicity** Not considered toxic to fish.

### Acute aquatic toxicity

**Acute toxicity - aquatic invertebrates** This information is based on test data from similar products  
EC<sub>50</sub>, 48 hour: >100 mg/l, Daphnia magna

### DODECAMETHYLCYCLOHEXASILOXANE

**Toxicity** Not considered toxic to fish.

### Acute aquatic toxicity

**Acute toxicity - aquatic plants** ErC<sub>50</sub>, 72 hour: > 0.002 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.

### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 day: 0.0046 mg/l, Daphnia magna  
Not toxic at limit of water solubility.

### BARIUM ZIRCONIUM TRIOXIDE

**Toxicity** No information available.

### DECAMETHYLCYCLOPENTASILOXANE

**Toxicity** Not toxic at limit of water solubility.

### Acute aquatic toxicity

**Acute toxicity - fish** Not toxic at limit of water solubility.  
LC<sub>50</sub>, 96 hours: >16  $\mu\text{g/l}$ , Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** Not toxic at limit of water solubility.  
EC<sub>50</sub>, 48 hours: >2.9 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** Not toxic at limit of water solubility.  
ErC<sub>50</sub>, 96 hours: > 0.012 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.  
NOEC, 96 hours: 0.012 mg/l, Pseudokirchneriella subcapitata

## SILASTIC 2451U SILICONE RUBBER COMPOUND

**Acute toxicity - terrestrial** NOEC, :  $\geq 76$  mg/kg, Eisenia Fetida (Earthworm)

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not toxic at limit of water solubility.  
 LC<sub>50</sub>, 14 day:  $>16$  mg/l, Oncorhynchus mykiss (Rainbow trout)  
 Not toxic at limit of water solubility.  
 NOEC, 45 day:  $\geq 0.017$  mg/l, Oncorhynchus mykiss (Rainbow trout)  
 Not toxic at limit of water solubility.  
 NOEC, 90 day:  $\geq 0.014$  mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.015 mg/l, Daphnia magna

### OCTAMETHYLCYCLOTETRASILOXANE

**Toxicity** Very toxic to aquatic life with long lasting effects.

### Acute aquatic toxicity

**Acute toxicity - fish** Not toxic at limit of water solubility.  
 LC<sub>50</sub>, 96 hour:  $> 0.022$  mg/l, Oncorhynchus mykiss (Rainbow trout)  
 Not toxic at limit of water solubility.  
 LC<sub>50</sub>, 14 days:  $> 0.0063$  mg/l, Cyprinodon variegatus (Sheepshead minnow)

**Acute toxicity - aquatic invertebrates** Not toxic at limit of water solubility.  
 EC<sub>50</sub>, 96 hours:  $> 0.0091$  mg/l, Mysidopsis bahia (opossum shrimp)  
 Not toxic at limit of water solubility.  
 EC<sub>50</sub>, 48 hours:  $> 0.015$  mg/l, Daphnia magna

**Acute toxicity - aquatic plants** Not toxic at limit of water solubility.  
 ErC<sub>50</sub>, 96 hours:  $> 0.022$  mg/l, Pseudokirchneriella subcapitata  
 Not toxic at limit of water solubility.  
 EC<sub>10</sub>, 96 hours:  $\geq 0.022$  mg/l, Pseudokirchneriella subcapitata

### Chronic aquatic toxicity

**NOEC**  $0.001 < \text{NOEC} \leq 0.01$

**Degradability** Non-rapidly degradable

**M factor (Chronic)** 10

**Chronic toxicity - fish early life stage** Not toxic at limit of water solubility.  
 NOEC, 93 days:  $\geq 0.0044$  mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** Not toxic at limit of water solubility.  
 NOEC, 21 days: 0.0079 mg/l, Daphnia magna

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

**Toxicity** Not considered toxic to fish.

### Acute aquatic toxicity

**Acute toxicity - fish** NOEC, 48 hours:  $>1000$  mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours:  $>1000$  mg/l, Daphnia magna

## SILASTIC 2451U SILICONE RUBBER COMPOUND

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Acute toxicity - aquatic plants | EC <sub>50</sub> , 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata<br>OECD 201 |
|---------------------------------|--------------------------------------------------------------------------------------|

|                                 |                                                      |
|---------------------------------|------------------------------------------------------|
| Acute toxicity - microorganisms | EC <sub>50</sub> , 3 hours: > 1000 mg/l,<br>OECD 209 |
|---------------------------------|------------------------------------------------------|

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### Ecological information on ingredients.

#### CRISTOBALITE

|                               |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not applicable. |
|-------------------------------|-----------------|

#### DODECAMETHYLCYCLOHEXASILOXANE

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Persistence and degradability | The product is not readily biodegradable. |
|-------------------------------|-------------------------------------------|

|                |                                          |
|----------------|------------------------------------------|
| Biodegradation | - Degradation 4.5%: 28 days<br>OECD 301B |
|----------------|------------------------------------------|

#### BARIUM ZIRCONIUM TRIOXIDE

|                               |                                                         |
|-------------------------------|---------------------------------------------------------|
| Persistence and degradability | There are no data on the degradability of this product. |
|-------------------------------|---------------------------------------------------------|

#### DECAMETHYLCYCLOPENTASILOXANE

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Persistence and degradability | The product is expected to be slowly biodegradable. |
|-------------------------------|-----------------------------------------------------|

|                |                                            |
|----------------|--------------------------------------------|
| Biodegradation | - Degradation 0.14%: 28 days<br>(OECD 310) |
|----------------|--------------------------------------------|

#### OCTAMETHYLCYCLOTETRAILOXANE

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Persistence and degradability | The product is expected to be slowly biodegradable. |
|-------------------------------|-----------------------------------------------------|

|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| Stability (hydrolysis) | pH7 - Half-life, DT <sub>50</sub> : 3.9 day @ 25°C<br>OECD 111 |
|------------------------|----------------------------------------------------------------|

|                |                                        |
|----------------|----------------------------------------|
| Biodegradation | - Degradation 3.7%: 28 day<br>OECD 310 |
|----------------|----------------------------------------|

#### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| Persistence and degradability | The product contains inorganic substances which are not biodegradable. |
|-------------------------------|------------------------------------------------------------------------|

### 12.3. Bioaccumulative potential

|                           |                                       |
|---------------------------|---------------------------------------|
| Bioaccumulative potential | No data available on bioaccumulation. |
|---------------------------|---------------------------------------|

|                       |                 |
|-----------------------|-----------------|
| Partition coefficient | Not determined. |
|-----------------------|-----------------|

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### Ecological information on ingredients.

#### CRISTOBALITE

**Bioaccumulative potential** Not applicable.

**Partition coefficient** Not applicable.

#### DODECAMETHYLCYCLOHEXASILOXANE

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 8.87

#### BARIUM ZIRCONIUM TRIOXIDE

**Bioaccumulative potential** No data available on bioaccumulation.

#### DECAMETHYLCYCLOPENTASILOXANE

**Bioaccumulative potential** BCF: 2010, Fish Estimated value.

**Partition coefficient** log Pow: 5.2

#### OCTAMETHYLCYCLOTETRAASILOXANE

**Bioaccumulative potential** Potentially bioaccumulating.  
BCF: 12400, Pimephales promelas (Fat-head Minnow)

**Partition coefficient** log Pow: 6.49

#### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

**Bioaccumulative potential** The product is not bioaccumulating. BCF: 19 - 352, Oncorhynchus mykiss (Rainbow trout)

**Partition coefficient** No information available.

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### CRISTOBALITE

**Mobility** No information available.

#### DODECAMETHYLCYCLOHEXASILOXANE

**Mobility** Mobile.

#### BARIUM ZIRCONIUM TRIOXIDE

**Mobility** No information available.

#### DECAMETHYLCYCLOPENTASILOXANE

**Mobility** Not considered mobile.

## SILASTIC 2451U SILICONE RUBBER COMPOUND

**Adsorption/desorption coefficient** - Koc: > 5000 @ 20°C Estimated value.

### OCTAMETHYLCYCLOTETRASILOXANE

**Mobility** Not considered mobile.

**Adsorption/desorption coefficient** - Koc: 16596 @ 20°C

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]

**Mobility** The product is insoluble in water.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product contains a substance classified as vPvB. This product contains a substance classified as PBT.

#### Ecological information on ingredients.

### CRISTOBALITE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### DODECAMETHYLCYCLOHEXASILOXANE

**Results of PBT and vPvB assessment** Dodecamethyl cyclohexasiloxane (D6) meets the current REACH Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. 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 reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

### BARIUM ZIRCONIUM TRIOXIDE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### DECAMETHYLCYCLOPENTASILOXANE

**Results of PBT and vPvB assessment** Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. 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 reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### OCTAMETHYLCYCLOTETRASILOXANE

#### Results of PBT and vPvB assessment

This substance is classified as PBT. This substance is classified as vPvB. Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PIT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. 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 reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

#### Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

Other adverse effects No data recorded.

#### Ecological information on ingredients.

### CRISTOBALITE

#### Other adverse effects

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.

### DODECAMETHYLCYCLOHEXASILOXANE

#### Other adverse effects

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.

### BARIUM ZIRCONIUM TRIOXIDE

#### Other adverse effects

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.

### DECAMETHYLCYCLOPENTASILOXANE

#### Other adverse effects

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.

### OCTAMETHYLCYCLOTETRASILOXANE

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**Other adverse effects** 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.

### TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$ ]

**Other adverse effects** 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 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

Not applicable.

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

## SILASTIC 2451U SILICONE RUBBER COMPOUND

### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

### Restrictions (Annex XVII Regulation 1907/2006)

CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 70

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

## SILASTIC 2451U SILICONE RUBBER COMPOUND

|                                                                         |                                                                                                                              |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Abbreviations and acronyms used in the safety data sheet</b>         | ATE: Acute Toxicity Estimate.                                                                                                |
|                                                                         | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.                                    |
|                                                                         | ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.                        |
|                                                                         | CAS: Chemical Abstracts Service.                                                                                             |
|                                                                         | DNEL: Derived No Effect Level.                                                                                               |
|                                                                         | IATA: International Air Transport Association.                                                                               |
|                                                                         | IMDG: International Maritime Dangerous Goods.                                                                                |
|                                                                         | Kow: Octanol-water partition coefficient.                                                                                    |
|                                                                         | LC <sub>50</sub> : Lethal Concentration to 50 % of a test population.                                                        |
|                                                                         | LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).                                             |
|                                                                         | PBT: Persistent, Bioaccumulative and Toxic substance.                                                                        |
|                                                                         | PNEC: Predicted No Effect Concentration.                                                                                     |
|                                                                         | REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.                    |
|                                                                         | RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.                                    |
|                                                                         | vPvB: Very Persistent and Very Bioaccumulative.                                                                              |
|                                                                         | IARC: International Agency for Research on Cancer.                                                                           |
|                                                                         | MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. |
|                                                                         | cATpE: Converted Acute Toxicity Point Estimate.                                                                              |
|                                                                         | BCF: Bioconcentration Factor.                                                                                                |
|                                                                         | BOD: Biochemical Oxygen Demand.                                                                                              |
|                                                                         | EC <sub>50</sub> : 50% of maximal Effective Concentration.                                                                   |
|                                                                         | LOAEC: Lowest Observed Adverse Effect Concentration.                                                                         |
|                                                                         | LOAEL: Lowest Observed Adverse Effect Level.                                                                                 |
|                                                                         | NOAEC: No Observed Adverse Effect Concentration.                                                                             |
|                                                                         | NOAEL: No Observed Adverse Effect Level.                                                                                     |
|                                                                         | NOEC: No Observed Effect Concentration.                                                                                      |
|                                                                         | LOEC: Lowest Observed Effect Concentration.                                                                                  |
|                                                                         | DMEL: Derived Minimal Effect Level.                                                                                          |
|                                                                         | EL50: Exposure Limit 50                                                                                                      |
|                                                                         | hPa: Hectopascal                                                                                                             |
|                                                                         | LL50: Lethal Loading fifty                                                                                                   |
|                                                                         | OECD: Organisation for Economic Co-operation and Development                                                                 |
|                                                                         | POW: Octanol-water partition coefficient                                                                                     |
|                                                                         | SCBA: self-contained breathing apparatus                                                                                     |
|                                                                         | STP: Sewage Treatment Plant                                                                                                  |
|                                                                         | VOC: Volatile Organic Compounds                                                                                              |
| <b>Classification abbreviations and acronyms</b>                        | Acute Tox. = Acute toxicity                                                                                                  |
|                                                                         | Aquatic Acute = Hazardous to the aquatic environment (acute)                                                                 |
|                                                                         | Aquatic Chronic = Hazardous to the aquatic environment (chronic)                                                             |
| <b>Key literature references and sources for data</b>                   | Supplier's information.                                                                                                      |
| <b>Classification procedures according to Regulation (EC) 1272/2008</b> | Not classified.: Calculation method.                                                                                         |
| <b>Revision comments</b>                                                | NOTE: Lines within the margin indicate significant changes from the previous revision.                                       |
| <b>Revision date</b>                                                    | 28/09/2022                                                                                                                   |

**SILASTIC 2451U SILICONE RUBBER COMPOUND**

|                                  |                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Version number</b>            | 2.000                                                                                                                                                                                                                                                                                                                          |
| <b>Supersedes date</b>           | 25/10/2020                                                                                                                                                                                                                                                                                                                     |
| <b>SDS number</b>                | 61074                                                                                                                                                                                                                                                                                                                          |
| <b>SDS status</b>                | Approved.                                                                                                                                                                                                                                                                                                                      |
| <b>Hazard statements in full</b> | H226 Flammable liquid and vapour.<br>H302 Harmful if swallowed.<br>H332 Harmful if inhaled.<br>H351 Suspected of causing cancer by inhalation.<br>H361f Suspected of damaging fertility.<br>H372 Causes damage to organs through prolonged or repeated exposure.<br>H410 Very toxic to aquatic life with long lasting effects. |
| <b>Signature</b>                 | Lisa Bland                                                                                                                                                                                                                                                                                                                     |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.