



## SAFETY DATA SHEET XIAMETER RBG 0910 GUM

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

#### 1.1. Product identifier

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Product name             | XIAMETER RBG 0910 GUM                                                                                      |
| Product number           | 57429                                                                                                      |
| 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 | Chemical Intermediate Cosmetics |
|-----------------|---------------------------------|

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

|          |                                                                                                                                      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|
| Supplier | Univar<br>Aquarius House<br>6 Mid Point Business Park<br>Bradford<br>BD3 7AY<br>+44 1274 267300<br>+44 1274 267306<br>sds@univar.com |
|----------|--------------------------------------------------------------------------------------------------------------------------------------|

#### 1.4. Emergency telephone number

|                     |                                |
|---------------------|--------------------------------|
| Emergency telephone | SGS - +32 (0)3 575 55 55 (24h) |
| Sds No.             | 57429                          |

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

## XIAMETER RBG 0910 GUM

|                                                                                                                         |                      |                                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------|
| <b>SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED</b> <span style="float: right;"><b>&gt;=97.0 - &lt;=100.0%</b></span> |                      |                                                  |
| CAS number: 70131-67-8                                                                                                  |                      |                                                  |
| <b>Classification</b><br>Not Classified                                                                                 |                      |                                                  |
| <b>DECAMETHYLCYCLOPENTASILOXANE</b> <span style="float: right;"><b>&gt;=0.83 - &lt;=1.13%</b></span>                    |                      |                                                  |
| CAS number: 541-02-6                                                                                                    | EC number: 208-764-9 | REACH registration number: 01-2119511367-43-XXXX |
| <b>Classification</b><br>Not Classified                                                                                 |                      |                                                  |
| <b>DODECAMETHYLCYCLOHEXASILOXANE</b> <span style="float: right;"><b>&gt;=0.9 - &lt;=1.2%</b></span>                     |                      |                                                  |
| CAS number: 540-97-6                                                                                                    | EC number: 208-762-8 | REACH registration number: 01-2119517435-42-XXXX |
| <b>Classification</b><br>Not Classified                                                                                 |                      |                                                  |
| <b>OCTAMETHYLCYCLOTETRASILOXANE</b> <span style="float: right;"><b>&gt;=0.47 - &lt;=0.63%</b></span>                    |                      |                                                  |
| CAS number: 556-67-2                                                                                                    | EC number: 209-136-7 | REACH registration number: 01-2119529238-36-XXXX |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Repr. 2 - H361f<br>Aquatic Chronic 4 - H413                             |                      |                                                  |

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

**Product name** XIAMETER RBG 0910 GUM

**REACH registration notes** This product is not classified as hazardous, the information in this datasheet is given for guidance only.

**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 mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.                                                                                                               |
| <b>Skin contact</b>        | Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues. |

## XIAMETER RBG 0910 GUM

**Eye contact** Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

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

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

**Notes for the doctor** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **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. 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** Eliminate all sources of ignition. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.

### **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** Stop leak if safe to do so. 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. Avoid the spillage or runoff entering drains, sewers or watercourses.

### **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**

## XIAMETER RBG 0910 GUM

### Usage precautions

Avoid contact with eyes and prolonged skin contact. Avoid spilling. Avoid release to the environment. Observe good chemical hygiene practices. 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.

### 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. Store away from the following materials: Strong oxidising agents.

### 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

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

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

#### DECAMETHYLCYCLOPENTASILOXANE

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

#### OCTAMETHYLCYCLOTETRAHILOXANE

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

WEL = Workplace Exposure Limit

#### Ingredient comments

Observe any occupational exposure limits for the product or ingredients.

#### 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

#### 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

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

## XIAMETER RBG 0910 GUM

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

### PNEC

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

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

### DNEL

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

### PNEC

- Fresh water; 0.00044 mg/l  
 - marine water; 0.00044 mg/l  
 - Sediment (Freshwater); 0.64 mg/kg  
 - Sediment (Marinewater); 0.064 mg/kg  
 - Soil; 0.13 mg/kg  
 - STP; > 10 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.

### Hand protection

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. The selected gloves should have a breakthrough time of at least 1 hours. Butyl rubber. Neoprene. Nitrile rubber. Polyvinyl alcohol (PVA). Polyvinyl chloride (PVC). Viton rubber (fluoro rubber). Rubber (natural, latex). Thickness: 0.35 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

## XIAMETER RBG 0910 GUM

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other skin and body protection</b> | Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.                                                                                                                                                                                                                                                                                                |
| <b>Hygiene measures</b>               | Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Take off immediately all contaminated clothing and wash it before reuse.                                                                                                                                                                                                             |
| <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>                                   | Solid                                                       |
| <b>Colour</b>                                       | Colourless.                                                 |
| <b>Odour</b>                                        | Acetic acid.                                                |
| <b>Odour threshold</b>                              | No information available.                                   |
| <b>pH</b>                                           | No information available.                                   |
| <b>Melting point</b>                                | No information available.                                   |
| <b>Initial boiling point and range</b>              | No information available.                                   |
| <b>Flash point</b>                                  | No information available.                                   |
| <b>Evaporation rate</b>                             | No information available.                                   |
| <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>                              | No information available.                                   |
| <b>Vapour density</b>                               | No information available.                                   |
| <b>Relative density</b>                             | 1                                                           |
| <b>Bulk density</b>                                 | No information available.                                   |
| <b>Solubility(ies)</b>                              | No information available.                                   |
| <b>Partition coefficient</b>                        | No information available.                                   |
| <b>Auto-ignition temperature</b>                    | No information available.                                   |
| <b>Decomposition Temperature</b>                    | No information available.                                   |
| <b>Viscosity</b>                                    | No information available.                                   |
| <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. |

## XIAMETER RBG 0910 GUM

### 9.2. Other information

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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Reactivity | There are no known reactivity hazards associated with this product. |
|------------|---------------------------------------------------------------------|

### 10.2. Chemical stability

|           |                                        |
|-----------|----------------------------------------|
| Stability | Stable at normal ambient temperatures. |
|-----------|----------------------------------------|

### 10.3. Possibility of hazardous reactions

|                                    |                                                                                                                                                                                                  |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Possibility of hazardous reactions | The following materials may react with the product: Strong oxidising agents. When heated, vapours/gases hazardous to health may be formed. Keep at temperature not exceeding 150°C. Formaldehyde |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 10.4. Conditions to avoid

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. |
|---------------------|-----------------------------------------------------|

### 10.5. Incompatible materials

|                    |                          |
|--------------------|--------------------------|
| Materials to avoid | Strong oxidising agents. |
|--------------------|--------------------------|

### 10.6. Hazardous decomposition products

|                                  |                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous decomposition products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Formaldehyde Oxides of the following substances: Carbon. Silicon. |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                       |                           |
|-----------------------|---------------------------|
| Toxicological effects | No information available. |
|-----------------------|---------------------------|

#### Acute toxicity - oral

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

#### Acute toxicity - dermal

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

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

|             |                 |
|-------------|-----------------|
| Animal data | Not irritating. |
|-------------|-----------------|

#### Serious eye damage/irritation

|                               |                                     |
|-------------------------------|-------------------------------------|
| Serious eye damage/irritation | May cause temporary eye irritation. |
|-------------------------------|-------------------------------------|

#### Respiratory sensitisation

## XIAMETER RBG 0910 GUM

**Respiratory sensitisation** No information available.

### Skin sensitisation

**Skin sensitisation** Not sensitising. Guinea pig

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

### 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** 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.

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

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause temporary irritation.

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

### Toxicological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

##### 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.

## XIAMETER RBG 0910 GUM

### Specific target organ toxicity - single exposure

STOT - single exposure No information available.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

### Aspiration hazard

Aspiration hazard No information available.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach.

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

Eye contact Particles in the eyes may cause irritation and smarting.

### 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, Inhalation, Dust/Mist, Rat

ATE inhalation (dusts/mists mg/l) 8.67

### Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo DNA damage and/or repair: 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.

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.

## XIAMETER RBG 0910 GUM

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 200 mg/kg, Dermal, NOAEL 100 mg/kg, Oral, LOAEL 125 mg/kg, ,

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| <b>Inhalation</b>   | Gas or vapour in high concentrations may irritate 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>  | Vapour or spray in the eyes may cause irritation and smarting.            |

### 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

### 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> > 2.5 mg/kg, Dermal, Rabbit

#### Acute toxicity - inhalation

**Acute toxicity inhalation** 2,975.0  
(LC<sub>50</sub> vapours mg/l)

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> 2975 ppm, Inhalation, Vapour, Rat  
LD<sub>50</sub> (4h) 36 mg/l, Inhalation, Dust/Mist, Rat OECD 403

**ATE inhalation (vapours** 2,975.0  
**mg/l)**

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating. Rabbit

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Ames test: Negative. Gene mutation: Negative. Chromosome aberration: Negative.  
DNA damage and/or repair: Negative.

## XIAMETER RBG 0910 GUM

**Genotoxicity - in vivo** Gene mutation: Negative. Rat Inhalation Vapour Gene mutation: Negative. Rat Oral

### Carcinogenicity

**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** No information available.

### 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** Not classified.

**Inhalation** May cause respiratory system irritation.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Prolonged skin contact may cause temporary irritation.

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

## XIAMETER RBG 0910 GUM

### 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.

## 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.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

### Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### DECAMETHYLCYCLOPENTASILOXANE

### Ecotoxicity

The product components are not classified as environmentally hazardous. 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.

#### OCTAMETHYLCYCLOTETRAILOXANE

### Ecotoxicity

The product contains a substance which may cause long-term adverse effects in the environment.

### 12.1. Toxicity

#### Acute aquatic toxicity

#### Acute toxicity - fish

No information available.

### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

### Toxicity

Not considered toxic to fish.

**XIAMETER RBG 0910 GUM****Acute aquatic toxicity**

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 493 mg/l, Daphnia magna  
OECD 202

**Chronic aquatic toxicity**

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 2320 mg/l, Daphnia magna

**DECAMETHYLCYCLOPENTASILOXANE**

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

**Acute aquatic toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >16 µg/l, Oncorhynchus mykiss (Rainbow trout)  
Not toxic at limit of water solubility.

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >2.9 mg/l, Daphnia magna  
OECD 202  
Not toxic at limit of water solubility.

**Acute toxicity - aquatic plants** ErC50, 96 hours: > 0.012 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.

NOEC, 96 hours: 0.012 mg/l, Pseudokirchneriella subcapitata  
Not toxic at limit of water solubility.

**Acute toxicity - terrestrial** NOEC, : >= 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: >= 0.017 mg/l, Oncorhynchus mykiss (Rainbow trout)  
  
Not toxic at limit of water solubility.  
NOEC, 90 day: >= 0.014 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.015 mg/l, Daphnia magna  
OECD 211

**DODECAMETHYLCYCLOHEXASILOXANE****Acute aquatic toxicity**

**Acute toxicity - aquatic plants** ErC50, 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.

**OCTAMETHYLCYCLOTETRASILOXANE****Acute aquatic toxicity**

## XIAMETER RBG 0910 GUM

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute toxicity - fish</b>                    | <p>LC<sub>50</sub>, 96 hours: &gt; 0.022 mg/l, Oncorhynchus mykiss (Rainbow trout)<br/>           Not toxic at limit of water solubility.<br/>           LC<sub>50</sub>, 14 day: &gt; 0.0063 mg/l, Cyprinodon variegatus (Sheepshead minnow)<br/>           Not toxic at limit of water solubility.<br/>           LC<sub>50</sub>, 14 day: 0.0063 mg/l, Cyprinodon variegatus (Sheepshead minnow)<br/>           Not toxic at limit of water solubility.</p> |
| <b>Acute toxicity - aquatic invertebrates</b>   | <p>EC<sub>50</sub>, 48 hours: &gt; 0.015 mg/l, Daphnia magna<br/>           Not toxic at limit of water solubility.<br/>           EC<sub>50</sub>, 96 hour: &gt;0.0091 mg/l, Marinewater invertebrates (Mysidopsis bahia)<br/>           Not toxic at limit of water solubility.</p>                                                                                                                                                                          |
| <b>Acute toxicity - aquatic plants</b>          | <p>EC<sub>50</sub>, 72 hours: 0.022 mg/l, Pseudokirchneriella subcapitata<br/>           Not toxic at limit of water solubility.</p>                                                                                                                                                                                                                                                                                                                           |
| <b><u>Chronic aquatic toxicity</u></b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Chronic toxicity - fish early life stage</b> | <p>NOEC, 93 day: &gt; 0.0044 mg/l, Oncorhynchus mykiss (Rainbow trout)<br/>           Not toxic at limit of water solubility.</p>                                                                                                                                                                                                                                                                                                                              |
| <b>Chronic toxicity - aquatic invertebrates</b> | <p>NOEC, 21 day: &gt; 0.0079 mg/l, Daphnia magna<br/>           Not toxic at limit of water solubility.</p>                                                                                                                                                                                                                                                                                                                                                    |

### 12.2. Persistence and degradability

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

#### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| <b>Persistence and degradability</b> | The product is degraded completely by hydrolysis. |
|--------------------------------------|---------------------------------------------------|

#### DECAMETHYLCYCLOPENTASILOXANE

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Persistence and degradability</b> | Not readily biodegradable. |
|--------------------------------------|----------------------------|

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

#### DODECAMETHYLCYCLOHEXASILOXANE

|                                      |                                           |
|--------------------------------------|-------------------------------------------|
| <b>Persistence and degradability</b> | The product is not readily biodegradable. |
|--------------------------------------|-------------------------------------------|

|                       |                                         |
|-----------------------|-----------------------------------------|
| <b>Biodegradation</b> | - Degradation 57%: 28 days<br>OCED 301B |
|-----------------------|-----------------------------------------|

#### OCTAMETHYLCYCLOTETRAASILOXANE

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Persistence and degradability</b> | Not readily biodegradable. |
|--------------------------------------|----------------------------|

|                               |                                            |
|-------------------------------|--------------------------------------------|
| <b>Stability (hydrolysis)</b> | pH7 - Half-life : 69.3 - 144 hour @ 24.6°C |
|-------------------------------|--------------------------------------------|

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

## XIAMETER RBG 0910 GUM

### 12.3. Bioaccumulative potential

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

**Partition coefficient** No information available.

### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

**Bioaccumulative potential** BCF: < 5.8, Cyprinus carpio (Common carp)

**Partition coefficient** log Pow: 0.63

#### DECAMETHYLCYCLOPENTASILOXANE

**Bioaccumulative potential** BCF: > 500, Pimephales promelas (Fat-head Minnow) BCF: 2010, Fish Estimated value.

**Partition coefficient** log Pow: 5.2

#### DODECAMETHYLCYCLOHEXASILOXANE

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 8.87

#### OCTAMETHYLCYCLOTETRAASILOXANE

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

**Partition coefficient** log Pow: 6.48

### 12.4. Mobility in soil

**Mobility** No information available.

### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

**Mobility** Not determined.

#### DECAMETHYLCYCLOPENTASILOXANE

**Mobility** Not considered mobile.

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

#### DODECAMETHYLCYCLOHEXASILOXANE

**Mobility** Mobile.

#### OCTAMETHYLCYCLOTETRAASILOXANE

**Mobility** Not considered mobile.

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

### 12.5. Results of PBT and vPvB assessment

## XIAMETER RBG 0910 GUM

### Results of PBT and vPvB assessment

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

### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

### 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".

#### 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.

#### OCTAMETHYLCYCLOTETRAASILOXANE

### Results of PBT and vPvB assessment

Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PtT 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.

### 12.6. Other adverse effects

#### Other adverse effects

None known.

### Ecological information on ingredients.

#### SILOXANE AND SILICONE DI ME HYDROXY-TERMINATED

#### Other adverse effects

Not determined.

#### DECAMETHYLCYCLOPENTASILOXANE

**XIAMETER RBG 0910 GUM**

Other adverse effects      Not determined.

**OCTAMETHYLCYCLOTETRASILOXANE**

Other adverse effects      Not available.

**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**      Not applicable.

**Annex II of MARPOL 73/78**

**and the IBC Code**

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**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.

## XIAMETER RBG 0910 GUM

### 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

### Abbreviations and acronyms used in the safety data sheet

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

**XIAMETER RBG 0910 GUM**

|                                                       |                                                                                                                                                                 |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification abbreviations and acronyms</b>      | Acute Tox. = Acute toxicity<br>Aquatic Acute = Hazardous to the aquatic environment (acute)<br>Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
| <b>Key literature references and sources for data</b> | Supplier's information.                                                                                                                                         |
| <b>Revision comments</b>                              | NOTE: Lines within the margin indicate significant changes from the previous revision.                                                                          |
| <b>Revision date</b>                                  | 22/03/2019                                                                                                                                                      |
| <b>Version number</b>                                 | 1.000                                                                                                                                                           |
| <b>SDS number</b>                                     | 57429                                                                                                                                                           |
| <b>SDS status</b>                                     | Approved.                                                                                                                                                       |
| <b>Hazard statements in full</b>                      | H226 Flammable liquid and vapour.<br>H361f Suspected of damaging fertility.<br>H413 May cause long lasting harmful effects to aquatic life.                     |
| <b>Signature</b>                                      | Lisa Bland                                                                                                                                                      |