

# Safety data sheets Ferney Group BV

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

### 1.1. Product identifier

|                           |                          |
|---------------------------|--------------------------|
| Productname               | Kelfort ® Silicone White |
| Article numbere           | 1516251-1516260          |
| Producttype               | Mixture                  |
| According Regulation (EC) | NO 1272/2008             |

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

|                      |            |
|----------------------|------------|
| Recommended use      | Sealant    |
| Uses advised against | None known |

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

Distributeur Ferney Group BV  
Postbus 24  
1700 AA Heerhugowaard – The Netherlands  
T +31 (0)72-5765000 - F +31 (0)72-5765010  
[bedrijfsbureau@ferneygroup.nl](mailto:bedrijfsbureau@ferneygroup.nl) - [www.ferney.nl](http://www.ferney.nl)

### 1.4 Emergency telephone number

Noodtelefoon : +49(0)9366-907126 (ma-do 7.15-18.00 hour) or  
: +31(0)30-2748888 (after worktime, exclusive use for doctors, pharmacists and government institutions)

| Country         | Organisation/<br>Company            | Address  | Emergency number | Comments   |
|-----------------|-------------------------------------|--|------------------|--|
| The Netherlands | National Poisons Information Center | House post number B.00.118 PO Box 85500<br>3508 GA Utrecht | +31 88 755 80 00 | For the sole purpose of informing healthcare professionals in the event of acute poisoning |

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Regulation (EC) No 1272/2008

Chronic aquatic toxicity

Category 3 - (H412)

### 2.2 Label elements

#### Hazard statements

H412 - Harmful to aquatic life with long lasting effects

#### EU Specific Hazard Statements

EUH208 - Contains 3-aminopropyltriethoxysilane & 2-octyl-2H-isothiazol-3-one [OIT]. May produce an allergic reaction

#### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3 Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing. Small amounts of 2-Pentanone oxime (CAS 623-40-5) are formed by hydrolysis and released upon curing. Harmful to aquatic life.

#### PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name  | EC No.    | CAS No.    | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|--|-----------|------------|---|------------------------------------|----------|----------------------|---------------------------|
| Silica, amorphous<br>5 - <10 %   | 231-545-4 | 7631-86-9  | [B]   | -                                  | -        | -                    | 01-2119379499-16-XXXX     |
| 2-Pentandione,<br>O,O',O''-(methylsilyldi-<br>ylidene)trioxime<br>1 - <2.5 % | 484-460-1 | 37859-55-5 | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)  | -                                  | -        | -                    | 01-2120004323-76-XXXX     |
| Titanium dioxide<br>0.1- <1 %  | 236-675-5 | 13463-67-7 | [C]   | -                                  | -        | -                    | 01-2119489379-17-XXXX     |
| 3-aminopropyltriethoxysilane<br>0.1- <1 %                                    | 213-048-4 | 919-30-2   | Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Acute Tox. 4 (H302)   | -                                  | -        | -                    | 01-2119480479-24-XXXX     |
| Octamethylcyclotetrasiloxane [D4]<br>0.01 - <0.1 %                           | 209-136-7 | 556-67-2   | Repr. 2 (H361f)<br>Aquatic Chronic 1 (H410)<br>Flam. Liq. 3 (H226)<br>[G]   | -                                  | -        | 10                   | 01-2119529238-36-XXXX     |
| 2-octyl-2H-isothiazol-3-one [OIT]<br>0.0015 - <0.01 %                        | 247-761-7 | 26530-20-1 | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 2 (H330)<br>Skin Corr. 1B (H314)<br>Eye Dam 1 (H318)<br>Skin Sens. 1A (H317)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | Skin Sens. 1A ::<br>C>=0.0015%     | 100      | 100                  | -                         |

#### Air contaminants formed when using the substance or mixture as intended

| Chemical name                 | EC No     | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | Specific concentration limit (SCL)                  | M-Factor | M-Factor (long-term) | REACH registration number |
|-------------------------------|-----------|----------|--|---|----------|----------------------|---------------------------|
| 2-Pentanone oxime<br>623-40-5 | 484-470-6 | 1 - <2.5 | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Aquatic Chronic 3 (H412)                                       | -   | -        | -                    | 01-2119980079-27-XXXX     |
| Ethanol<br>64-17-5            | 200-578-6 | 1 - <2.5 | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)   | -   | -        | -                    | 01-2119457610-43-XXXX     |
| Methyl alcohol<br>67-56-1     | 200-659-6 | 1 - <2.5 | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>STOT SE 1 (H370)<br>Flam. Liq. 2 (H225) | STOT SE 1 ::<br>C>=10%<br>STOT SE 2 ::<br>3%<=C<10% | -        | -                    | 01-2119392409-28-XXXX     |

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

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Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[B] - Substance with a Community workplace exposure limit

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

## Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name                                      | EC No     | CAS No     | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|--|-----------|------------|-----------------|-------------------|---|--|--------------------------------------|
| Silica, amorphous                                  | 231-545-4 | 7631-86-9  | -               | -                 | -   | -  | -                                    |
| 2-Pentandione, O,O',O''-(methylsilylidyne)trioxime | 484-460-1 | 37859-55-5 | 1234            | -                 | -   | -  | -                                    |
| Titanium dioxide                                   | 236-675-5 | 13463-67-7 | -               | -                 | -   | -  | -                                    |
| 3-aminopropyltriethoxy silane                      | 213-048-4 | 919-30-2   | 1490            | -                 | -   | -  | -                                    |
| Octamethylcyclotetrasiloxane [D4]                  | 209-136-7 | 556-67-2   | -               | -                 | -   | -  | -                                    |
| 2-octyl-2H-isothiazol-3-one [OIT]                  | 247-761-7 | 26530-20-1 | 125*            | 311*              | 0.27*                                       | 0.27*                                    | 0.27*                                |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## Notes

See section 16 for more information

| Chemical name                 | Notes  |
|-------------------------------|--------|
| Titanium dioxide - 13463-67-7 | V,W,10 |

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.                                       |
| <b>Inhalation</b>     | Remove to fresh air. If symptoms persist, call a doctor.   |
| <b>Eye contact</b>    | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist. |
| <b>Skin contact</b>   | In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.  |
| <b>Ingestion</b>      | Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.                     |

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

|                 |             |
|-----------------|-------------|
| <b>Symptoms</b> | None known. |
|-----------------|-------------|

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

|                        |   |
|------------------------|---|
| <b>Note to doctors</b> | Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically. |
|------------------------|---|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** Full water jet.

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

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Carbon oxides. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

## SECTION 6: Accidental release measures

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

**Personal precautions** Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2 Environmental precautions

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

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## 6.3 Methods and material for containment and cleaning up

- Methods for containment** Do not scatter spilled material with high pressure water streams.
- Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.
- Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4 Reference to other sections

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



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off all contaminated clothing and wash it before reuse.

### 7.2 Conditions for safe storage

**Storage Conditions** Protect from moisture. Keep away from food, drink and animal feedingstuffs.

**Recommended storage temperature** Keep at temperatures between 10 and 35 °C.

### 7.3 Specific end use(s)

**Specific use(s)**  
Sealant.

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

**Other information** Observe technical data sheet.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure Limits

Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

| Chemical name                  | European Union                             |
|--------------------------------|--|
| Silica, amorphous<br>7631-86-9 | TWA: 0.1 mg/m <sup>3</sup>                 |
| Methyl alcohol<br>67-56-1      | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup> |

Derived No Effect Level (DNEL) No information available

| Derived No Effect Level (DNEL)              |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Titanium dioxide (13463-67-7)               |                |                                |               |
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Local health effects | Inhalation     | 10 mg/m <sup>3</sup>           |               |

| 3-aminopropyltriethoxysilane (919-30-2)         |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects  | Inhalation     | 59 mg/m <sup>3</sup>           |               |
| worker<br>Short term<br>Systemic health effects | Inhalation     | 59 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Systemic health effects  | Dermal         | 8.3 mg/kg bw/d                 |               |
| worker<br>Short term<br>Systemic health effects | Dermal         | 8.3 mg/kg bw/d                 |               |

Octamethylcyclotetrasiloxane [D4] (556-67-2)

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| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| worker<br>Long term<br>Systemic health effects | Inhalation     | 73 mg/m <sup>3</sup>           |               |

### Derived No Effect Level (DNEL)

#### Titanium dioxide (13463-67-7)

| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Oral           | 700 mg/kg bw/d                 |               |

#### 3-aminopropyltriethoxysilane (919-30-2)

| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|---|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects  | Inhalation     | 17 mg/m <sup>3</sup>           |               |
| Consumer<br>Short term<br>Systemic health effects | Inhalation     | 17.4 mg/m <sup>3</sup>         |               |
| Consumer<br>Long term<br>Systemic health effects  | Dermal         | 5 mg/kg bw/d                   |               |
| Consumer<br>Short term<br>Systemic health effects | Dermal         | 5 mg/kg bw/d                   |               |

#### Octamethylcyclotetrasiloxane [D4] (556-67-2)

| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--|----------------|--------------------------------|---------------|
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 13 mg/m <sup>3</sup>           |               |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 3.7 mg/kg bw/d                 |               |

**Predicted No Effect Concentration** No information available.  
 (PNEC)

#### Predicted No Effect Concentration (PNEC)

##### Titanium dioxide (13463-67-7)

| Environmental compartment          | Predicted No Effect Concentration (PNEC) |
|------------------------------------|--|
| Marine water                       | 0.0184 mg/l                              |
| Freshwater sediment                | 1000 mg/kg                               |
| Freshwater                         | 0.184 mg/l                               |
| Marine sediment                    | 100 mg/kg                                |
| Soil                               | 100 mg/kg                                |
| Microorganisms in sewage treatment | 100 mg/l                                 |
| Freshwater - intermittent          | 0.193 mg/l                               |

##### 3-aminopropyltriethoxysilane (919-30-2)

| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|---------------------------|--|
| Freshwater                | 0.33 mg/l                                |
| Marine water              | 0.033 mg/l                               |

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| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|---------------------------|--|
| Freshwater                | 0.0015 mg/l                              |
| Marine water              | 0.00015 mg/l                             |
| Freshwater sediment       | 3 mg/kg                                  |
| Marine sediment           | 0.3 mg/kg                                |
| Soil                      | 0.54 mg/kg                               |
| Sewage treatment plant    | 10 mg/l                                  |

## 8.2 Exposure controls

|  |   |
|--|---|
| <b>Engineering controls</b>            | Ensure adequate ventilation, especially in confined areas.  |
| <b>Personal protective equipment</b>   |   |
| <b>Eyeface protection</b>              | Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.   |
| <b>Hand protection</b>                 | Wear suitable gloves. Recommended Use: Neoprene™. Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374 |
| <b>Skin and body protection</b>        | None under normal use conditions.   |
| <b>Respiratory protection</b>          | In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation, especially in confined areas.   |
| <b>Recommended filter type:</b>        | Organic gases and vapours filter conforming to EN 14387. White. Brown.  |
| <b>Environmental exposure controls</b> | Do not allow uncontrolled discharge of product into the environment.  |

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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                                    |                                   |
|---|------------------------------------|-----------------------------------|
| Physical state                          | Solid                              |                                   |
| Appearance                              | Paste                              |                                   |
| Colour                                  | See section 1 for more information |                                   |
| Odour                                   | Characteristic.                    |                                   |
| Odour threshold                         | No information available           |                                   |
| <b>Property</b>                         | <b>Values</b>                      | <b>Remarks • Method</b>           |
| Melting point / freezing point          | No data available                  | None known                        |
| Initial boiling point and boiling range | No data available                  | None known                        |
| Flammability                            | No data available                  | None known                        |
| Flammability Limit in Air               |                                    | None known                        |
| Upper flammability or explosive limits  | No data available                  |                                   |
| Lower flammability or explosive limits  | No data available                  |                                   |
| Flash point                             | No data available                  | None known                        |
| Autoignition temperature                | No data available                  | None known                        |
| Decomposition temperature               |                                    | None known                        |
| pH                                      | No data available                  | Not applicable Insoluble in water |
| pH (as aqueous solution)                | No data available                  | None known                        |
| Kinematic viscosity                     | > 21 mm <sup>2</sup> /s            |                                   |
| Dynamic viscosity                       | No data available                  |                                   |
| Water solubility                        | No data available                  | Product cures with moisture       |
| Solubility(ies)                         | No data available                  | None known                        |
| Partition coefficient                   | No data available                  | None known                        |
| Vapour pressure                         | No data available                  | None known                        |
| Relative density                        | No data available                  | None known                        |
| Bulk Density                            | No data available                  |                                   |
| Density                                 | 1.26                               |                                   |
| Relative vapour density                 | No data available                  | None known                        |
| Particle characteristics                |                                    |                                   |
| Particle Size                           | No information available           |                                   |
| Particle Size Distribution              | No information available           |                                   |

### 9.2 Other information

Solid content (%) No information available  
VOC Content (%) No data available

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

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## Rubriek 10: Stability and reactivity

### 10.1 Reactivity

**Reactivity** Product cures with moisture.

### 10.2 Chemical stability

**Stability** Stable under normal conditions.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3 Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4 Conditions to avoid

**Conditions to avoid** Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

**Incompatible materials** Strong oxidising agents.

### 10.6 Hazardous decompositions products

**Hazardous decomposition products** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

|             |   |
|-------------|---|
| Inhalation  | Based on available data, the classification criteria are not met. |
| Eye contact | Based on available data, the classification criteria are not met. |



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**Skin contact** May cause sensitisation in susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

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

**Symptoms** No information available.

**Acute toxicity**

**Numerical measures of toxicity**

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

ATEmix (oral) 53,572.10 mg/kg  
 ATEmix (dermal) 86,870.20 mg/kg

**Component Information**

| Chemical name                                      | Oral LD50  | Dermal LD50  | Inhalation LC50                   |
|--|--|--|-----------------------------------|
| Silica, amorphous                                  | =7900 mg/kg (Rattus)   | > 5000 mg/kg (Oryctolagus cuniculus)                       | >2.2 mg/L (Rattus) 1 h            |
| 2-Pentandione, O,O',O''-(methylsilylidine)trioxime | LD50 =1234 mg/kg bw (Rattus)(OECD guideline 425)   | LD50 > 2000 mg/kg (Rattus) EU Method B.3                   | -                                 |
| Titanium dioxide                                   | >10000 mg/kg (Rattus)  | LD50 > 5000 mg/Kg  | = 5.09 mg/L ( Rattus ) 4 h        |
| 3-aminopropyltriethoxysilane                       | LD50 = 1490 mg/kg (Rat, female) EPA OTS 798.1175<br>LD50 = 2690 mg/kg (Rat, male) EPA OTS 798.1175 | LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100 | LC50 >144 mg/L (6h) Rat (Vapour)  |
| Octamethylcyclotetrasiloxane [D4]                  | LD50 > 4800 mg/kg (Rattus) OECD 401  | LD50 > 2400 mg/kg (Rattus) OECD 402                        | =36 g/m <sup>3</sup> (Rattus) 4 h |
| 2-octyl-2H-isothiazol-3-one [OIT]                  | =125 mg/kg (Rattus)  | = 690 mg/kg (Oryctolagus cuniculus)                        | -                                 |

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results      |
|--|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  | Dermal         |                |               | Non-irritant |

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results   |
|--|---------|----------------|----------------|---------------|-----------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  | Dermal         |                |               | Corrosive |

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

| Method  | Species | Exposure route | Effective dose | Exposure time | Results      |
|---|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            |                |               | Non-irritant |



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## 2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

**Respiratory or skin sensitisation** No classification is proposed, based on conclusive negative data. OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. May cause sensitisation in susceptible persons.

| Method                                | Species    | Exposure route | Results                                  |
|---------------------------------------|------------|----------------|--|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal         | No sensitisation responses were observed |

## Titanium dioxide (13463-67-7)

| Method  | Species    | Exposure route | Results               |
|---|------------|----------------|-----------------------|
| OECD Test No. 406: Skin Sensitisation                         | Guinea pig | Dermal         | Not a skin sensitiser |
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse      | Dermal         | Not a skin sensitiser |

## 2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method  | Species | Exposure route | Results     |
|---|---------|----------------|-------------|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse   |                | sensitising |

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

| Chemical name                     | European Union |
|-----------------------------------|----------------|
| Octamethylcyclotetrasiloxane [D4] | Repr. 2        |

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

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

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

| Chemical name  | Algae/aquatic plants   | Fish  | Toxicity to microorganisms | Crustacea   | M-Factor | M-Factor (long-term) |
|--|--|---|----------------------------|---|----------|----------------------|
| Silica, amorphous<br>7631-86-9                                   | EC50: =440mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )                      | LC50: =5000mg/L (96h, <i>Brachydanio rerio</i> )  | -                          | EC50: =7600mg/L (48h, <i>Ceriodaphnia dubia</i> )                         |          |                      |
| 2-Pentandione, O,O',O''-(methylsilylidene)trioxime<br>37859-55-5 | EC50 (72h) = 88 mg/L ( <i>Pseudokirchneriella subcapitata</i> )<br>OECD 201        | LC50 (96h) >113 mg/L ( <i>Oncorhynchus mykiss</i> ) Static (OECD Guideline 203)                       | -                          | EC50 (48h) >100 mg/L ( <i>Daphnia magna</i> ) static (OECD guideline 202) |          |                      |
| Titanium dioxide<br>13463-67-7                                   | LC50 (96h) >10000 mg/l ( <i>Cyprinodon variegatus</i> )<br>OECD 203                | -   | -                          | -   |          |                      |
| 3-aminopropyltriethoxy silane<br>919-30-2                        | EC50 (72h) >1000 mg/L Green algae ( <i>desmodesmus subspicatus</i> ) (OECD TG 201) | LC50 (96h) >934 mg/L ( <i>Brachydanio rerio</i> ) (OECD TG 203)                                       | -                          | EC50 (48h) =331 mg/L <i>Daphnia magna</i> (OECD TG 202)                   |          |                      |
| Octamethylcyclotetrasiloxane [D4]<br>556-67-2                    | -  | LC50: >1000mg/L (96h, <i>Lepomis macrochirus</i> )<br>LC50: >500mg/L (96h, <i>Brachydanio rerio</i> ) | -                          | EC50: =25.2mg/L (24h, <i>Daphnia magna</i> )                              |          | 10                   |
| 2-octyl-2H-isothiazol-3-one [OIT]<br>26530-20-1                  | EC50(72h) = 0.084 mg/L ( <i>Scenedesmus subspicatus</i> ) (OECD 201)               | LC50 (96h) = 0.036 mg/L ( <i>Oncorhynchus mykiss</i> ) (OECD 203)                                     | -                          | EC50 (48h) =0.42 mg/L (OECD 202)  | 100      | 100                  |

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## 12.2 Persistence and degradability

Persistence and degradability No information available.

Silica, amorphous (7631-86-9)

| Method | Exposure time | Value | Results   |
|--------|---------------|-------|---|
|        |               |       | The methods for determining biodegradability are not applicable to inorganic substances |

Octamethylcyclotetrasiloxane [D4] (556-67-2)

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

| Method  | Exposure time | Value               | Results               |
|---|---------------|---------------------|-----------------------|
| OECD Test No. 309: Aerobic Mineralization in Surface Water - Simulation Biodegradation Test |               | Half-life 0.6-1.4 d | Readily biodegradable |

## 12.3 Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name                                     | Partition coefficient |
|---|-----------------------|
| 2-Pentandione, O,O',O''-(methylsilyldiyl)trioxime | 1.25                  |
| 3-aminopropyltriethoxysilane                      | 1.7                   |
| Octamethylcyclotetrasiloxane [D4]                 | 6.49                  |
| 2-octyl-2H-isothiazol-3-one [OIT]                 | 2.92                  |

## 12.4 Mobility in soil

Mobility in soil No information available.

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## 12.5 Result of PBT

### PBT and vPvB assessment

| Chemical name                                     | PBT and vPvB assessment                                       |
|---|---|
| Silica, amorphous                                 | The substance is not PBT / vPvB PBT assessment does not apply |
| 2-Pentandione, O,O',O''-(methylsilyldiyl)trioxime | The substance is not PBT / vPvB                               |
| Titanium dioxide                                  | The substance is not PBT / vPvB PBT assessment does not apply |
| 3-aminopropyltriethoxysilane                      | The substance is not PBT / vPvB                               |
| Octamethylcyclotetrasiloxane [D4]                 | PBT & vPvB  |
| 2-octyl-2H-isothiazol-3-one [OIT]                 | The substance is not PBT / vPvB                               |

## 12.6 Other adverse

**Endocrine disrupting properties** No information available.

| Component Information   |           |         |
|---|-----------|---------|
| Octamethylcyclotetrasiloxane [D4] (556-67-2)  |           |         |
| Method  | Results   | Species |
| Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4). | Negative. |         |

## 12.7. Other adverse effects

No information available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                                     |  |
|-------------------------------------|--|
| Waste from residues/unused products | Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable. |
| Contaminated packaging              | Handle contaminated packages in the same way as the product itself.  |
| European Waste Catalogue            | 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances                         |
| Other information                   | Waste codes should be assigned by the user based on the application for which the product was used.                      |

## SECTION 14: Transport information

### Land transport (ADR/RID)

|                                 |                |
|---------------------------------|----------------|
| 14.1 UN number or ID number     | Not regulated  |
| 14.2 Proper Shipping Name       | Not regulated  |
| 14.3 Transport hazard class(es) | Not regulated  |
| 14.4 Packing group              | Not regulated  |
| 14.5 Environmental hazards      | Not applicable |
| 14.6 Special Provisions         | None           |

### IMDG

|  |                |
|--|----------------|
| 14.1 UN number or ID number                                  | Not regulated  |
| 14.2 Proper Shipping Name                                    | Not regulated  |
| 14.3 Transport hazard class(es)                              | Not regulated  |
| 14.4 Packing group   | Not regulated  |
| 14.5 Marine pollutant  | NP             |
| 14.6 Special Provisions                                      | None           |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |

### Air transport (ICAO-TI / IATA-DGR)

|                                 |                |
|---------------------------------|----------------|
| 14.1 UN number or ID number     | Not regulated  |
| 14.2 Proper Shipping Name       | Not regulated  |
| 14.3 Transport hazard class(es) | Not regulated  |
| 14.4 Packing group              | Not regulated  |
| 14.5 Environmental hazards      | Not applicable |
| 14.6 Special Provisions         | None           |

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## SECTION 15 Regulatory Information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

##### **Substance subject to authorisation per REACH Annex XIV**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

##### **Biocidal Products Regulation (EU) No 528/2012 (BPR)**

This product contains a biocidal product for the preservation of the dry film Contains: 2-octyl-2H-isothiazol-3-one [OIT]

##### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable



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**Persistent Organic Pollutants**  
Not applicable

## National regulations

### France

Occupational Illnesses (R-463-3, France)

| Chemical name                                   | French RG number   |
|---|--|
| Silica, amorphous<br>7631-86-9                  | RG 25  |
| 2-octyl-2H-isothiazol-3-one [OIT]<br>26530-20-1 | RG 5, RG 14, RG 15, RG 15bis, RG 20bis<br>RG 2, RG 9, RG 14, RG 20, RG 34, RG 65 |

### Germany

**Ordinance on Industrial Safety and Health - Germany - BetrSichV**  
No flammable liquids in accordance with BetrSichV

**Water hazard class (WGK)** obviously hazardous to water (WGK 2)

### Netherlands

**List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)**  
Not Listed

| Chemical name                                 | Netherlands - List of Carcinogens |
|---|-----------------------------------|
| Octamethylcyclotetrasiloxane [D4]<br>556-67-2 | Fertility (Category 2)            |

### Denmark

**Registration number(s) (P-no.)** No information available

### Norway

**Registration number(s) (PRN-no.)** No information available

## 15.2 National precautions

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.



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## SECTION 16: Other information

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

#### Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
H361f - Suspected of damaging fertility  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

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## Notes assigned to an entry

**Note V:** If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied

**Note W:** It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

## Notes relating to the classification and labelling of mixtures

**Note 10:** The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

## Legend SECTION 8: Exposure controls/personal protection

|         |                                   |      |                                  |
|---------|-----------------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average)       | STEL | STEL (Short Term Exposure Limit) |
| AGW     | Occupational exposure limit value | BGW  | Biological limit value           |
| Ceiling | Maximum limit value               | *    | Skin designation                 |

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

## Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

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Organisation for Economic Co-operation and Development Screening Information Data Set

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 18-Jul-2022

**Training Advice** No information available

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.