



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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Unibond Anti-Mould White

SDS No. : 558615  
V002.2

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Replaces version from: 21.03.2022

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

#### 1.1. Product identifier

Unibond Anti-Mould White

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

Intended use:

Joint sealant, silicone

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

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

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

##### Classification (CLP):

Skin sensitizer

Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment

Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

4,5-Dichloro-2-octyl-2H-isothiazol-3-one

|                                 |  |
|---------------------------------|--|
| <b>Signal word:</b>             | Warning  |
| <b>Hazard statement:</b>        | H317 May cause an allergic skin reaction.<br>H411 Toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statement:</b> | P101 If medical advice is needed, have product container or label at hand.<br>P102 Keep out of reach of children.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves.<br>P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P501 Dispose of contents/container in accordance with national regulation. |

### 2.3. Other hazards

Evolves acetic acid during cure.

This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Evolves acetic acid during cure.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

|  |          |
|--|----------|
| octamethylcyclotetrasiloxane<br>556-67-2 | PBT/vPvB |
|--|----------|

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No.  | Concentration                             | Classification  | Specific Conc. Limits, M-factors and ATEs   | Add. Information |
|--|---|---|---|------------------|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2<br>01-2119827000-58 | 10- 20 %                                  | Asp. Tox. 1, H304   |   |                  |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics<br><br>01-2119457736-27                 | 5- < 10 %                                 | Asp. Tox. 1, H304   |   |                  |
| octamethylcyclotetrasiloxane<br>556-67-2<br>209-136-7<br>01-2119529238-36                                    | 0,025- < 0,25 %<br>( 0,25 %o- < 2,5 %o)   | Aquatic Chronic 1, H410<br>Repr. 2, H361f<br>Flam. Liq. 3, H226   | M chronic = 10  | SVHC<br>PBT/vPvB |
| Titanium dioxide<br>13463-67-7<br>236-675-5<br>01-2119489379-17  | 0,1- < 1 %                                | Carc. 2, Inhalation, H351   |   |                  |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5<br>264-843-8  | 0,0015- < 0,025 %<br>( 15 ppm- < 250 ppm) | Acute Tox. 4, Oral, H302<br>Aquatic Acute 1, H400<br>Acute Tox. 2, Inhalation, H330<br>Eye Dam. 1, H318<br>Aquatic Chronic 1, H410<br>Skin Sens. 1A, H317<br>Skin Corr. 1, H314 | Skin Sens. 1A; H317; C >= 0,0015 %<br>Eye Irrit. 2; H319; C 0,025 - < 3 %<br>Skin Irrit. 2; H315; C 0,025 - < 5 %<br>=====<br>M acute = 100<br>M chronic = 100<br>=====<br>oral:ATE = 567 mg/kg<br>inhalation:ATE = 0,16 mg/l;dust/mist |                  |

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of adverse health effects seek medical advice.

#### Inhalation:

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

#### Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

#### Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

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

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Wear protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Ensure adequate ventilation.

Avoid contact with skin and eyes.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

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

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure that workrooms are adequately ventilated.

Avoid skin and eye contact.

**Hygiene measures:**

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

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

Store in sealed original container protected against moisture.

Store in a cool, dry place.

Store frost-free.

Temperatures between + 5 °C and + 25 °C

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

Joint sealant, silicone

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Great Britain

| Ingredient [Regulated substance]                                       | ppm | mg/m <sup>3</sup> | Value type                        | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|-----------------------------------|--|-----------------|
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, INHALABLE DUST]  |     | 6                 | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS, RESPIRABLE DUST] |     | 2,4               | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[Dust, respirable dust]              |     | 4                 | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Silicon dioxide<br>112945-52-5<br>[Dust, inhalable dust]               |     | 10                | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                                | 10  | 25                | Time Weighted Average (TWA):      | Indicative                                   | ECLTV           |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                                | 20  | 50                | Short Term Exposure Limit (STEL): | Indicative                                   | ECLTV           |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                                | 10  | 25                | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                                | 20  | 50                | Short Term Exposure Limit (STEL): | 15 minutes                                   | EH40 WEL        |
| Titanium dioxide<br>13463-67-7<br>[TITANIUM DIOXIDE, RESPIRABLE]       |     | 4                 | Time Weighted Average (TWA):      |  | EH40 WEL        |
| Titanium dioxide<br>13463-67-7<br>[TITANIUM DIOXIDE, TOTAL INHALABLE]  |     | 10                | Time Weighted Average (TWA):      |  | EH40 WEL        |

#### Occupational Exposure Limits

Valid for  
Ireland

| Ingredient [Regulated substance]  | ppm | mg/m <sup>3</sup> | Value type                   | Short term exposure limit category / Remarks   | Regulatory list |
|---|-----|-------------------|------------------------------|--|-----------------|
| Distillates (petroleum), hydrotreated middle<br>64742-46-7<br>[MINERAL OIL PURE, HIGHLY & SEVERELY REFINED]   |     | 5                 | Time Weighted Average (TWA): |  | IR_OEL          |
| Distillates (petroleum), hydrotreated middle<br>64742-46-7<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] |     |                   |                              | Included in the regulation but with no data values. See regulation for further details | IR_OEL          |
| Distillates (petroleum), hydrotreated middle<br>64742-46-7<br>[MINERAL OILS THAT HAVE BEEN USED BEFORE IN INTERNAL COMBUSTION ENGINES TO LUBRICATE AND COOL THE MOVING PARTS WITHIN THE ENGINE] |     |                   | Skin designation:            | Can be absorbed through the skin.  | IR_OEL          |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]   | 10  | 25                | Time Weighted Average (TWA): | Indicative OELV  | IR_OEL          |

|  |    |     |                                   |                            |        |
|--|----|-----|-----------------------------------|----------------------------|--------|
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                | 10 | 25  | Time Weighted Average (TWA):      | Indicative                 | ECTLV  |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                | 20 | 50  | Short Term Exposure Limit (STEL): | Indicative                 | ECTLV  |
| Acetic acid<br>64-19-7<br>[ACETIC ACID]                | 20 | 50  | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS]  |    | 6   | Time Weighted Average (TWA):      |                            | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[SILICA, AMORPHOUS]  |    | 2,4 | Time Weighted Average (TWA):      |                            | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC] |    | 10  | Time Weighted Average (TWA):      |                            | IR_OEL |
| Silicon dioxide<br>112945-52-5<br>[DUSTS NON-SPECIFIC] |    | 4   | Time Weighted Average (TWA):      |                            | IR_OEL |
| Titanium dioxide<br>13463-67-7<br>[TITANIUM DIOXIDE]   |    | 10  | Time Weighted Average (TWA):      |                            | IR_OEL |
| Titanium dioxide<br>13463-67-7<br>[TITANIUM DIOXIDE]   |    | 4   | Time Weighted Average (TWA):      |                            | IR_OEL |

**Predicted No-Effect Concentration (PNEC):**

| Name on list                             | Environmental Compartment    | Exposure period | Value        |     |            |        | Remarks |
|--|------------------------------|-----------------|--------------|-----|------------|--------|---------|
|  |                              |                 | mg/l         | ppm | mg/kg      | others |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | aqua (freshwater)            |                 | 0,0015 mg/l  |     |            |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | aqua (marine water)          |                 | 0,00015 mg/l |     |            |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | sewage treatment plant (STP) |                 | 10 mg/l      |     |            |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | sediment (freshwater)        |                 |              |     | 3 mg/kg    |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | sediment (marine water)      |                 |              |     | 0,3 mg/kg  |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | oral                         |                 |              |     | 41 mg/kg   |        |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | Soil                         |                 |              |     | 0,54 mg/kg |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list                             | Application Area   | Route of Exposure | Health Effect                         | Exposure Time | Value                   | Remarks |
|--|--------------------|-------------------|---------------------------------------|---------------|-------------------------|---------|
| Octamethylcyclotetrasiloxane<br>556-67-2 | Workers            | inhalation        | Long term exposure - systemic effects |               | 73 mg/m <sup>3</sup>    |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | Workers            | inhalation        | Long term exposure - local effects    |               | 73 mg/m <sup>3</sup>    |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | General population | inhalation        | Long term exposure - systemic effects |               | 13 mg/m <sup>3</sup>    |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | General population | inhalation        | Long term exposure - local effects    |               | 13 mg/m <sup>3</sup>    |         |
| Octamethylcyclotetrasiloxane<br>556-67-2 | General population | oral              | Long term exposure - systemic effects |               | 3,7 mg/kg               |         |
| Titanium dioxide<br>13463-67-7           | Workers            | inhalation        | Long term exposure - local effects    |               | 0,17 mg/m <sup>3</sup>  |         |
| Titanium dioxide<br>13463-67-7           | General population | inhalation        | Long term exposure - local effects    |               | 0,028 mg/m <sup>3</sup> |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Combination filter: ABEKP (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness &gt; 0.1 mm

Perforation time &gt; 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state

solid

Delivery form

solid

Colour

varied, according to coloration

|   |   |
|---|---|
| Odor  | of acetic acid  |
| Melting point   | < -50 °C (< -58 °F) Lower limit DSC   |
| Solidification temperature                                    | Not applicable, Product is a solid.   |
| Initial boiling point   | Currently under determination   |
| Flammability  | The product is not flammable.   |
| Explosive limits  | Not applicable, Product is a solid.   |
| Flash point   | Not applicable, Product is a solid.   |
| Auto-ignition temperature                                     | Not applicable, Product is a solid.   |
| Decomposition temperature                                     | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH  | Not applicable, Product is non-soluble (in water).  |
| Viscosity (kinematic)   | Not applicable, Product is a solid.   |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water) | Insoluble   |
| Partition coefficient: n-octanol/water                        | Not applicable  |
| Vapour pressure<br>(20 °C (68 °F))                            | Mixture<br>< 0,5 Pa   |
| Density<br>(20 °C (68 °F))                                    | 0,96 - 0,97 g/cm <sup>3</sup> no method   |
| Relative vapour density:                                      | Not applicable, Product is a solid.   |
| Particle characteristics                                      | Not applicable, mixture is a paste.   |

## 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

Evolves acetic acid during cure.



## SECTION 11: Toxicological information

### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type                    | Value         | Species | Method  |
|--|-------------------------------|---------------|---------|---|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | LD50                          | > 5.000 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | LD50                          | > 5.000 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2   | LD50                          | > 4.800 mg/kg | rat     | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| Titanium dioxide<br>13463-67-7   | LD50                          | > 5.000 mg/kg | rat     | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)   |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | Acute toxicity estimate (ATE) | 567 mg/kg     |         | Expert judgement  |

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type | Value          | Species | Method  |
|--|------------|----------------|---------|---|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | LD50       | > 3.160 mg/kg  | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | LD50       | > 3.160 mg/kg  | rabbit  | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2   | LD50       | > 2.375 mg/kg  | rat     | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Titanium dioxide<br>13463-67-7   | LD50       | > 10.000 mg/kg | rabbit  | not specified   |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | LD50       | > 2.000 mg/kg  | rabbit  | OECD Guideline 402 (Acute Dermal Toxicity)                          |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Value type                    | Value        | Test atmosphere | Exposure time | Species | Method  |
|--|-------------------------------|--------------|-----------------|---------------|---------|---|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | LC50                          | > 5,266 mg/l | dust/mist       | 4 h           | rat     | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | LC50                          | > 5,266 mg/l | dust/mist       | 4 h           | rat     | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasiloxane<br>556-67-2   | LC50                          | 36 mg/l      | dust/mist       | 4 h           | rat     | OECD Guideline 403 (Acute Inhalation Toxicity)                          |
| Titanium dioxide<br>13463-67-7   | LC50                          | > 6,82 mg/l  | dust            | 4 h           | rat     | not specified   |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | Acute toxicity estimate (ATE) | 0,16 mg/l    | dust/mist       | 4 h           |         | Expert judgement  |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Result         | Exposure time | Species | Method  |
|--|----------------|---------------|---------|---|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | not irritating | 4 h           | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | not irritating | 4 h           | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |
| octamethylcyclotetrasiloxane<br>556-67-2   | not irritating |               | rabbit  | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Titanium dioxide<br>13463-67-7   | not irritating | 4 h           | rabbit  | OECD Guideline 404 (Acute Dermal Irritation / Corrosion)                          |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No.   | Result         | Exposure time | Species | Method   |
|--|----------------|---------------|---------|--|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | not irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | not irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |
| octamethylcyclotetrasiloxane<br>556-67-2   | not irritating |               | rabbit  | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Titanium dioxide<br>13463-67-7   | not irritating |               | rabbit  | OECD Guideline 405 (Acute Eye Irritation / Corrosion)                          |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result          | Test type                             | Species    | Method   |
|--|-----------------|---------------------------------------|------------|--|
| Hydrocarbons, C14-C18,<br>n-alkanes, isoalkanes,<br>cyclics, <2% aromatics | not sensitising | Guinea pig maximisation<br>test       | guinea pig | equivalent or similar to OECD Guideline<br>406 (Skin Sensitisation)                            |
| octamethylcyclotetrasilox<br>ane<br>556-67-2                               | not sensitising | Guinea pig maximisation<br>test       | guinea pig | OECD Guideline 406 (Skin Sensitisation)  |
| Titanium dioxide<br>13463-67-7   | not sensitising | Mouse local lymphnode<br>assay (LLNA) | mouse      | equivalent or similar to OECD Guideline<br>429 (Skin Sensitisation: Local Lymph<br>Node Assay) |
| Titanium dioxide<br>13463-67-7   | not sensitising | Buehler test                          | guinea pig | OECD Guideline 406 (Skin Sensitisation)  |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Result   | Type of study /<br>Route of<br>administration          | Metabolic<br>activation /<br>Exposure time | Species | Method   |
|--|----------|--|--|---------|--|
| Hydrocarbons, C14-C18,<br>n-alkanes, isoalkanes,<br>cyclics, <2% aromatics | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | equivalent or similar to OECD<br>Guideline 471 (Bacterial<br>Reverse Mutation Assay)                 |
| octamethylcyclotetrasilox<br>ane<br>556-67-2                               | negative | bacterial gene<br>mutation assay                       | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)  |
| octamethylcyclotetrasilox<br>ane<br>556-67-2                               | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | equivalent or similar to OECD<br>Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test) |
| octamethylcyclotetrasilox<br>ane<br>556-67-2                               | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | equivalent or similar to OECD<br>Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)    |
| Titanium dioxide<br>13463-67-7   | negative | bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without                           |         | OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay)  |
| Titanium dioxide<br>13463-67-7   | negative | in vitro mammalian<br>chromosome<br>aberration test    | with and without                           |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)                             |
| Titanium dioxide<br>13463-67-7   | negative | mammalian cell<br>gene mutation assay                  | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)                                |
| Titanium dioxide<br>13463-67-7   | negative | in vitro mammalian<br>cell micronucleus<br>test        | without                                    |         | equivalent or similar to OECD<br>Guideline 487 (In vitro<br>Mammalian Cell<br>Micronucleus Test)     |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components<br>CAS-No. | Result           | Route of<br>application | Exposure<br>time /<br>Frequency<br>of treatment | Species | Sex         | Method        |
|---------------------------------|------------------|-------------------------|---|---------|-------------|---------------|
| Titanium dioxide<br>13463-67-7  | not carcinogenic | oral: feed              | 103 w<br>daily                                  | rat     | male/female | not specified |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Result / Value                                    | Test type            | Route of application | Species | Method   |
|--|---|----------------------|----------------------|---------|--|
| octamethylcyclotetrasiloxane<br>556-67-2 | NOAEL P 300 ppm<br>NOAEL F1 300 ppm               | two-generation study | inhalation           | rat     | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Titanium dioxide<br>13463-67-7           | NOAEL P >= 1.000 mg/kg<br>NOAEL F1 >= 1.000 mg/kg | one-generation study | oral: feed           | rat     | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)                 |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.          | Result / Value      | Route of application | Exposure time / Frequency of treatment               | Species | Method   |
|--|---------------------|----------------------|--|---------|--|
| octamethylcyclotetrasiloxane<br>556-67-2 | LOAEL 35 ppm        | inhalation           | 6 h nose only inhalation<br>5 days/week for 13 weeks | rat     | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)                            |
| octamethylcyclotetrasiloxane<br>556-67-2 | NOAEL 960 mg/kg     | dermal               | 3 w<br>5 d/w   | rabbit  | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Titanium dioxide<br>13463-67-7           | NOAEL > 1.000 mg/kg | oral: gavage         | 92 d<br>daily  | rat     | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)                           |

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains, soil or bodies of water.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value                       | Exposure time | Species   | Method   |
|--|---------------|-----------------------------|---------------|---|--|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | LC50          | > 1.028 mg/l                | 96 h          | Scophthalmus maximus                            | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | LC50          | > 1.028 mg/l                | 96 h          | not specified                                   | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| octamethylcyclotetrasiloxane<br>556-67-2   | NOEC          | 0,0044 mg/l                 | 93 d          | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| octamethylcyclotetrasiloxane<br>556-67-2   | LC50          | Toxicity > Water solubility | 96 h          | Oncorhynchus mykiss                             | EPA OTS 797.1400 (Fish Acute Toxicity Test)              |
| Titanium dioxide<br>13463-67-7   | LC50          | Toxicity > Water solubility | 48 h          | Leuciscus idus                                  | OECD Guideline 203 (Fish, Acute Toxicity Test)           |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | NOEC          | 0,00056 mg/l                | 97 d          | Oncorhynchus mykiss                             | OECD Guideline 210 (fish early lite stage toxicity test) |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | LC50          | 0,0027 mg/l                 | 96 h          | Oncorhynchus mykiss                             | OECD Guideline 203 (Fish, Acute Toxicity Test)           |

#### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.  | Value<br>type | Value                       | Exposure time | Species       | Method   |
|--|---------------|-----------------------------|---------------|---------------|--|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | LL50          | > 3.193 mg/l                | 48 h          | Acartia tonsa | other guideline:   |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | EC50          | > 3.193 mg/l                | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| octamethylcyclotetrasiloxane<br>556-67-2   | EC50          | Toxicity > Water solubility | 48 h          | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Titanium dioxide<br>13463-67-7   | EC50          | Toxicity > Water solubility | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | EC50          | 0,0057 mg/l                 | 48 h          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)                       |

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.                                      | Value<br>type | Value    | Exposure time | Species       | Method   |
|--|---------------|----------|---------------|---------------|--|
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics | NOELR         | 5 mg/l   | 21 d          | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| octamethylcyclotetrasiloxane<br>556-67-2                             | NOEC          | 7.9 µg/l | 21 d          | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test)             |

|  |      |                                |      |               |  |
|--|------|--------------------------------|------|---------------|--|
| Titanium dioxide<br>13463-67-7                             | NOEC | Toxicity > Water<br>solubility | 21 d | Daphnia magna | OECD Guideline 202<br>(Daphnia sp. Chronic<br>Immobilisation Test) |
| 4,5-Dichloro-2-octyl-2H-<br>isothiazol-3-one<br>64359-81-5 | NOEC | 0,00063 mg/l                   | 21 d | Daphnia magna | OECD 211 (Daphnia<br>magna, Reproduction Test)                     |

### Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value                          | Exposure time | Species   | Method   |
|---|---------------|--------------------------------|---------------|---|--|
| Hydrocarbons, C15-C20, n-<br>alkanes, isoalkanes, cyclics, <<br>0.03% aromatics<br>1335203-17-2 | EL50          | > 10.000 mg/l                  | 72 h          | Skeletonema costatum  | ISO 10253 (Water quality)                            |
| Hydrocarbons, C14-C18, n-<br>alkanes, isoalkanes, cyclics,<br><2% aromatics                     | EC50          | > 3.198 mg/l                   | 72 h          | Skeletonema costatum  | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| octamethylcyclotetrasiloxane<br>556-67-2  | EC50          | Toxicity > Water<br>solubility | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | EPA OTS 797.1050 (Algal<br>Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane<br>556-67-2  | EC10          | 0,022 mg/l                     | 96 h          | Selenastrum capricornutum<br>(new name: Pseudokirchneriella<br>subcapitata) | EPA OTS 797.1050 (Algal<br>Toxicity, Tiers I and II) |
| Titanium dioxide<br>13463-67-7  | EC50          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| Titanium dioxide<br>13463-67-7  | NOEC          | Toxicity > Water<br>solubility | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |
| 4,5-Dichloro-2-octyl-2H-<br>isothiazol-3-one<br>64359-81-5                                      | EC50          | 0,077 mg/l                     | 72 h          | Pseudokirchneriella subcapitata   | OECD Guideline 201 (Alga,<br>Growth Inhibition Test) |

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No.   | Value<br>type | Value                          | Exposure time | Species  | Method  |
|---|---------------|--------------------------------|---------------|--|---|
| Hydrocarbons, C15-C20, n-<br>alkanes, isoalkanes, cyclics, <<br>0.03% aromatics<br>1335203-17-2 | EC 50         | > 100 mg/l                     | 3 h           | activated sludge of a<br>predominantly domestic sewage | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test)          |
| octamethylcyclotetrasiloxane<br>556-67-2  | EC50          | Toxicity > Water<br>solubility | 3 h           | activated sludge                                       | ISO 8192 (Test for<br>Inhibition of Oxygen<br>Consumption by Activated<br>Sludge) |
| Titanium dioxide<br>13463-67-7  | EC0           | Toxicity > Water<br>solubility | 24 h          | Pseudomonas fluorescens                                | DIN 38412, part 8<br>(Pseudomonas<br>Zellvermehrungshemm-<br>Test)                |
| 4,5-Dichloro-2-octyl-2H-<br>isothiazol-3-one<br>64359-81-5                                      | EC 50         | 5,7 mg/l                       | 3 h           | activated sludge                                       | OECD Guideline 209<br>(Activated Sludge,<br>Respiration Inhibition Test)          |

## 12.2. Persistence and degradability

| Hazardous substances<br>CAS-No.  | Result                     | Test type     | Degradability | Exposure time | Method   |
|--|----------------------------|---------------|---------------|---------------|--|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | readily biodegradable      | aerobic       | 74 %          | 28 d          | OECD Guideline 306 (Biodegradability in Seawater)  |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | readily biodegradable      | aerobic       | 74 %          | 28 d          | OECD 301 A - F   |
| octamethylcyclotetrasiloxane<br>556-67-2   | not readily biodegradable. | aerobic       | 3,7 %         | 29 d          | OECD Guideline 310 (Ready Biodegradability CO <sub>2</sub> in Sealed Vessels (Headspace Test)) |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | not readily biodegradable. | not specified | > 0 - < 60 %  | 28 d          | OECD 301 A - F   |

### 12.3. Bioaccumulative potential

| Hazardous substances<br>CAS-No.                        | Bioconcentration factor (BCF) | Exposure time | Temperature | Species             | Method  |
|--|-------------------------------|---------------|-------------|---------------------|---|
| octamethylcyclotetrasiloxane<br>556-67-2               | 12.400                        | 28 d          |             | Pimephales promelas | EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5 | < 13                          |               |             |                     | not specified   |

### 12.4. Mobility in soil

| Hazardous substances<br>CAS-No.                        | LogPow | Temperature | Method           |
|--|--------|-------------|------------------|
| octamethylcyclotetrasiloxane<br>556-67-2               | 6,98   | 21,7 °C     | other guideline: |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5 | 2,8    |             | not specified    |

### 12.5. Results of PBT and vPvB assessment

| Hazardous substances<br>CAS-No.  | PBT / vPvB  |
|--|---|
| Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics<br>1335203-17-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics                     | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |
| octamethylcyclotetrasiloxane<br>556-67-2   | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.               |
| Titanium dioxide<br>13463-67-7   | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| 4,5-Dichloro-2-octyl-2H-isothiazol-3-one<br>64359-81-5                                   | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.           |

### 12.6. Endocrine disrupting properties

not applicable

### 12.7. Other adverse effects

No data available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Product disposal:**

Dispose of waste and residues in accordance with local authority requirements.

**Disposal of uncleaned packages:**

Use packages for recycling only when totally empty.

**Waste code**

080409

**SECTION 14: Transport information****14.1. UN number or ID number**

|      |      |
|------|------|
| ADR  | 3077 |
| RID  | 3077 |
| ADN  | 3077 |
| IMDG | 3077 |
| IATA | 3077 |

**14.2. UN proper shipping name**

|      |  |
|------|--|
| ADR  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4,5-Dichloro-2-octyl-2H-isothiazol-3-one,octamethylcyclotetrasiloxane) |
| RID  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4,5-Dichloro-2-octyl-2H-isothiazol-3-one,octamethylcyclotetrasiloxane) |
| ADN  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4,5-Dichloro-2-octyl-2H-isothiazol-3-one,octamethylcyclotetrasiloxane) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (4,5-Dichloro-2-octyl-2H-isothiazol-3-one,octamethylcyclotetrasiloxane) |
| IATA | Environmentally hazardous substance, solid, n.o.s. (4,5-Dichloro-2-octyl-2H-isothiazol-3-one,octamethylcyclotetrasiloxane) |

**14.3. Transport hazard class(es)**

|      |   |
|------|---|
| ADR  | 9 |
| RID  | 9 |
| ADN  | 9 |
| IMDG | 9 |
| IATA | 9 |

**14.4. Packing group**

|      |     |
|------|-----|
| ADR  | III |
| RID  | III |
| ADN  | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

|      |                  |
|------|------------------|
| ADR  | not applicable   |
| RID  | not applicable   |
| ADN  | not applicable   |
| IMDG | Marine pollutant |
| IATA | not applicable   |

**14.6. Special precautions for user**

|     |                |
|-----|----------------|
| ADR | not applicable |
|-----|----------------|



|      |                |
|------|----------------|
|      | Tunnelcode:    |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

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

not applicable

## SECTION 15: Regulatory information

No information available:

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

|   |                |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H330 Fatal if inhaled.  
 H351 Suspected of causing cancer.  
 H361f Suspected of damaging fertility.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.

|             |   |
|-------------|---|
| ED:         | Substance identified as having endocrine disrupting properties  |
| EU OEL:     | Substance with a Union workplace exposure limit   |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148   |
| EU EXPLD 2  | Substance listed in Annex II, Reg (EC) No. 2019/1148  |
| SVHC:       | Substance of very high concern (REACH Candidate List)   |
| PBT:        | Substance fulfilling persistent, bioaccumulative and toxic criteria   |
| PBT/vPvB:   | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB:       | Substance fulfilling very persistent and very bioaccumulative criteria  |

### Further information:

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