



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

**ISR 70-03 WHITE**  
**Supersedes Date:** 25-Apr-2023

**Revision date** 25-Jul-2023  
**Revision Number** 2.08

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

### 1.1. Product identifier

**Product Name** ISR 70-03 WHITE

**Pure substance/mixture** Mixture

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

**Recommended use** Adhesives and/or sealants

**Uses advised against** Consumer use

**Reason why uses advised against** Restricted substance per REACH Annex XVII

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

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Signal word**

None

#### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **EU Specific Hazard Statements**

EUH208 - Contains Trimethoxyvinylsilane. May produce an allergic reaction

EUH210 - Safety data sheet available on request

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust

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## 2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Causes mild skin irritation.

### 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).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name                       | EC No (EU Index No)         | CAS No     | Weight-%   | Classification according to Regulation (EC) No. 1272/2008 [CLP]    | Specific concentration limit (SCL) | REACH registration number |
|-------------------------------------|-----------------------------|------------|------------|--|------------------------------------|---------------------------|
| Trimethoxyvinylsilane               | (014-049-00-0)<br>220-449-8 | 2768-02-7  | 1 - <3     | Skin Sens. 1B (H317)<br>Acute Tox. 4 (H332)<br>Flam. Liq. 3 (H226) | -                                  | 01-2119513215-52-XXXX     |
| Titanium dioxide                    | (022-006-00-2)<br>236-675-5 | 13463-67-7 | 1 - <2.5   | [C]  | -                                  | 01-2119489379-17-XXXX     |
| 1-Propanamine, 3-(trimethoxysilyl)- | 237-511-5                   | 13822-56-5 | 1 - <2.5   | Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)                          | -                                  | 01-2119510159-45-XXXX     |
| Dioctyltin oxide                    | 212-791-1                   | 870-08-6   | 0.1 - <0.5 | STOT SE 2 (H371)   | -                                  | 01-2119971268-27-xxxx     |

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

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

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

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

| Chemical name             | EC No (EU Index No)         | Classification according to Regulation (EC) No. 1272/2008 [CLP]   | Specific concentration limit (SCL)                      | M-Factor | M-Factor (long-term) | REACH registration number |
|---------------------------|-----------------------------|---|---|----------|----------------------|---------------------------|
| Methyl alcohol<br>67-56-1 | (603-001-00-X)<br>200-659-6 | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331) | STOT SE 1 ::<br>C ≥ 10%<br>STOT SE 2 ::<br>3% ≤ C < 10% | -        | -                    | 01-2119433307-44-XXXX     |

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|  |  |   |  |  |  |  |
|--|--|---|--|--|--|--|
|  |  | STOT SE 1<br>(H370)<br>Flam. Liq. 2<br>(H225) |  |  |  |  |
|--|--|---|--|--|--|--|

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 |

## 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>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                     |
| <b>Skin contact</b>   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.  |
| <b>Ingestion</b>      | Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Small amounts of toxic methanol are released by hydrolysis. |

### 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> | Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. |
|------------------------|---|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Unsuitable extinguishing media</b> | Full water jet. |
|---------------------------------------|-----------------|

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

|   |  |
|---|--|
| <b>Specific hazards arising from the chemical</b> | Thermal decomposition can lead to release of irritating gases and vapours. |
|---|--|

|                                      |   |
|--------------------------------------|---|
| <b>Hazardous combustion products</b> | Carbon oxides. Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Silicon oxides. Silicon dioxide. |
|--------------------------------------|---|

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

**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.

### 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.

## **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.

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

**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)**  
Adhesives and/or sealants.

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

**Other information** Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

**Exposure Limits** This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product Small amounts of methanol

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(CAS 67-56-1) are formed by hydrolysis and released upon curing

| Chemical name                  | European Union                                  | United Kingdom  |
|--------------------------------|---|---|
| Methyl alcohol<br>67-56-1      | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>* | TWA: 200 ppm<br>TWA: 266 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 333 mg/m <sup>3</sup><br>Sk*                 |
| Titanium dioxide<br>13463-67-7 | -   | TWA: 10 mg/m <sup>3</sup><br>TWA: 4 mg/m <sup>3</sup><br>STEL: 30 mg/m <sup>3</sup><br>STEL: 12 mg/m <sup>3</sup> |
| Diocetyl tin oxide<br>870-08-6 | -   | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup><br>Sk*  |

| Chemical name             | European Union | Ireland                                 | United Kingdom |
|---------------------------|----------------|---|----------------|
| Methyl alcohol<br>67-56-1 | -              | 15 mg/L (urine - Methanol end of shift) | -              |

**Derived No Effect Level (DNEL)** No information available

| Derived No Effect Level (DNEL)                 |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Trimethoxyvinylsilane (2768-02-7)              |                |                                |               |
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Systemic health effects<br>Long term | Inhalation     | 27,6 mg/m <sup>3</sup>         |               |
| worker<br>Systemic health effects<br>Long term | Dermal         | 3,9 mg/kg bw/d                 |               |

| 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>           |               |

| 1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5) |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects   | Inhalation     | 58 mg/m <sup>3</sup>           |               |
| worker<br>Long term                              | Dermal         | 8.3 mg/kg bw/d                 |               |
| Short term<br>worker                             | Inhalation     | 58 mg/m <sup>3</sup>           |               |
| Short term<br>worker                             | Dermal         | 8.3 mg/kg bw/d                 |               |

| Diocetyl tin oxide (870-08-6)                  |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Dermal         | 0.05 mg/kg bw/d                |               |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 0.004 mg/m <sup>3</sup>        |               |

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| Derived No Effect Level (DNEL)                   |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Trimethoxyvinylsilane (2768-02-7)                |                |                                |               |
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Systemic health effects<br>Long term | Inhalation     | 18,9 mg/m <sup>3</sup>         |               |
| Consumer<br>Systemic health effects<br>Long term | Dermal         | 7,8 mg/kg bw/d                 |               |
| Consumer<br>Systemic health effects<br>Long term | Oral           | 0,3 mg/kg bw/d                 |               |

| 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                 |               |

| Diocetyl tin oxide (870-08-6)                    |                |                                |               |
|--|----------------|--------------------------------|---------------|
| Type   | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects | Oral           | 0.0005 mg/kg bw/d              |               |
| Consumer<br>Long term<br>Systemic health effects | Dermal         | 0.025 mg/kg bw/d               |               |
| Consumer<br>Long term<br>Systemic health effects | Inhalation     | 0.0009 mg/m <sup>3</sup>       |               |

## Predicted No Effect Concentration (PNEC)

| Predicted No Effect Concentration (PNEC) |  |
|--|--|
| Trimethoxyvinylsilane (2768-02-7)        |  |
| Environmental compartment                | Predicted No Effect Concentration (PNEC) |
| Freshwater                               | 0.34 mg/l                                |
| Marine water                             | 0.034 mg/l                               |
| Microorganisms in sewage treatment       | 110 mg/l                                 |

| 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                               |

| 1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5) |  |
|--|--|
| Environmental compartment                        | Predicted No Effect Concentration (PNEC) |
| Freshwater                                       | 0.33 mg/l                                |
| Microorganisms in sewage treatment               | 13 mg/l                                  |

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|              |            |
|--------------|------------|
| Soil         | 0.04 mg/l  |
| Marine water | 0.033 mg/l |

| Diocetyl tin oxide (870-08-6)      |  |
|------------------------------------|--|
| Environmental compartment          | Predicted No Effect Concentration (PNEC) |
| Freshwater sediment                | 0.02798 mg/kg dry weight                 |
| Marine sediment                    | 0.002798 mg/kg dry weight                |
| Microorganisms in sewage treatment | 100 mg/l                                 |

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

|                                 |   |
|---------------------------------|---|
| <b>Eye/face 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.  |

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

|                        |                |
|------------------------|----------------|
| <b>Physical state</b>  | Solid          |
| <b>Appearance</b>      | Paste          |
| <b>Colour</b>          | White          |
| <b>Odour</b>           | Slight.        |
| <b>Odour threshold</b> | Not applicable |

| Property                                       | Values              | Remarks • Method |
|--|---------------------|------------------|
| <b>Melting point / freezing point</b>          | No data available   | None known       |
| <b>Initial boiling point and boiling range</b> | No data available   | None known       |
| <b>Flammability</b>                            | No data available   |                  |
| <b>Flammability Limit in Air</b>               |                     | None known       |
| <b>Upper flammability or explosive limits</b>  | No data available   |                  |
| <b>Lower flammability or explosive limits</b>  | No data available   |                  |
| <b>Flash point</b>                             | No data available   | None known       |
| <b>Autoignition temperature</b>                | 224 °C              |                  |
| <b>Decomposition temperature</b>               |                     | None known       |
| <b>pH</b>                                      | 7                   |                  |
| <b>pH (as aqueous solution)</b>                | No data available   | None known       |
| <b>Kinematic viscosity</b>                     | No data available   | None known       |
| <b>Dynamic viscosity</b>                       | 6000 - 14000 Pa.s   | @ 20 °C          |
| <b>Water solubility</b>                        | Insoluble in water. |                  |
| <b>Solubility(ies)</b>                         | No data available   | None known       |
| <b>Partition coefficient</b>                   | No data available   | None known       |
| <b>Vapour pressure</b>                         | No data available   | None known       |
| <b>Relative density</b>                        | No data available   | None known       |
| <b>Bulk Density</b>                            | No data available   |                  |
| <b>Density</b>                                 | 1.5 g/ml            |                  |

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|                            |                          |            |
|----------------------------|--------------------------|------------|
| 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

## SECTION 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 None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

## SECTION 11: Toxicological information

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

#### 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** Based on available data, the classification criteria are not met. Causes mild skin irritation. 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** Prolonged contact may cause redness and irritation.

## Acute toxicity

## Numerical measures of toxicity

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

ATEmix (oral) >5000 mg/kg  
ATEmix (dermal) >5000 mg/kg  
ATEmix (inhalation-gas) >20000 ppm  
ATEmix (inhalation-dust/mist) >5 mg/l  
ATEmix (inhalation-vapour) 630.20 mg/l

## Component Information

| Chemical name                       | Oral LD50   | Dermal LD50  | Inhalation LC50                           |
|-------------------------------------|---|--|---|
| Trimethoxyvinylsilane               | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401           | = 3540 mg/kg (Oryctolagus cuniculus)                           | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| Titanium dioxide                    | >10000 mg/kg (Rattus)                               | LD50 > 5000 mg/Kg  | = 5.09 mg/L ( Rattus ) 4 h                |
| 1-Propanamine, 3-(trimethoxysilyl)- | LD50 (Rattus) > 2000 mg/ kg (2,97 ml/kg) (OECD 401) | LD50 (Oryctolagus cuniculus) > 2000 mg/kg 11,3 ml/kg) OECD 402 | -   |
| Diocetyl tin oxide                  | =2500 mg/kg (Rattus)                                | LD50 > 2000 mg/kg (Rattus) OECD 402                            | -   |

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Exposure route | Effective dose | Exposure time | Results      |
|--------|---------|----------------|----------------|---------------|--------------|
|        | Rabbit  | Dermal         | 0.5 mL         | 24 hours      | Non-irritant |

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 |

**Serious eye damage/eye irritation** No classification is proposed, based on conclusive negative data. By analogy to another tested similar product: No irritation after contact to the eyes. (H319 is void).

| Product Information  |         |                |                |               |                               |
|--|---------|----------------|----------------|---------------|-------------------------------|
| Method   | Species | Exposure route | Effective dose | Exposure time | Results                       |
| OECD 437 Bovine Corneal Opacity and Permeability (BCOP) test | Bovine  | Corneal        | Product 100 %  | 10 minutes    | Product score <3 Non-irritant |

Trimethoxyvinylsilane (2768-02-7)

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| Method  | Species | Exposure route | Effective dose | Exposure time | Results      |
|---|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 405:<br>Acute Eye<br>Irritation/Corrosion | Rabbit  | eye            |                | 24 hours      | Non-irritant |

Titanium dioxide (13463-67-7)

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

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

| Method  | Species | Exposure route | Effective dose | Exposure time | Results  |
|---|---------|----------------|----------------|---------------|----------|
| OECD Test No. 405:<br>Acute Eye<br>Irritation/Corrosion | Rabbit  | eye            |                | 72 hours      | irritant |

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

| Product Information                      |            |                |   |
|--|------------|----------------|---|
| Method                                   | Species    | Exposure route | Results                                     |
| OECD Test No. 406: Skin<br>Sensitisation | Guinea pig | Dermal         | Not a skin sensitiser                       |
| OECD Test No. 406: Skin<br>Sensitisation | Guinea pig | Dermal         | No sensitisation responses<br>were observed |

Trimethoxyvinylsilane (2768-02-7)

| Method   | Species    | Exposure route | Results     |
|--|------------|----------------|-------------|
| OECD Test No. 406: Skin<br>Sensitisation, Buehler test | Guinea pig | Dermal         | sensitising |

Titanium dioxide (13463-67-7)

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

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

| Method                                   | Species    | Exposure route | Results  |
|--|------------|----------------|--|
| OECD Test No. 406: Skin<br>Sensitisation | Guinea pig | Dermal         | Did not cause sensitisation on<br>laboratory animals |

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

Component Information  
Trimethoxyvinylsilane (2768-02-7)

| Method  | Species  | Results       |
|---|----------|---------------|
| OECD Test No. 471: Bacterial Reverse<br>Mutation Test | in vitro | Not mutagenic |

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

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

Trimethoxyvinylsilane (2768-02-7)

| Method   | Species | Results          |
|--|---------|------------------|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat     | Not Classifiable |

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

| Method   | Species | Results          |
|--|---------|------------------|
| OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents | Rat     | Not Classifiable |

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

Diocetyl tin oxide (870-08-6)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results  |
|--|---------|----------------|----------------|---------------|--|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat     | Oral           | 5 mg/kg        | 28 days       | 0.3 - 0.5 mg/kg bw/d May cause damage to the following organs: Immune system |

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

Trimethoxyvinylsilane (2768-02-7)

| Method   | Species | Exposure route    | Effective dose | Exposure time | Results     |
|--|---------|-------------------|----------------|---------------|-------------|
| OECD Test No. 413: Sub-chronic Inhalation Toxicity: 90-day Study | Rat     | Inhalation vapour |                | 90 days       | 0.058 NOAEL |

Diocetyl tin oxide (870-08-6)

| Method | Species    | Exposure route | Effective dose | Exposure time | Results             |
|--------|------------|----------------|----------------|---------------|---------------------|
|        | Rat Rabbit |                |                | 28 days       | 0.3 -0.5 mg/kg bw/d |

**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.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

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| Chemical name                                     | Algae/aquatic plants  | Fish   | Toxicity to microorganisms | Crustacea  | M-Factor | M-Factor (long-term) |
|---|---|--|----------------------------|--|----------|----------------------|
| Trimethoxyvinylsilane<br>2768-02-7                | EC 50 (72h) > 957 mg/l<br>(Desmodesmus subspicatus)<br>EU Method C.3                            | LC50 (96h) = 191 mg/l<br>(Oncorhynchus mykiss)                                 | -                          | EC50(48hr)<br>168.7mg/l<br>(Daphnia magna)   |          |                      |
| Titanium dioxide<br>13463-67-7                    | LC50 (96h) >10000 mg/l<br>(Cyprinodon variegatus)<br>OECD 203                                   | -  | -                          | -  |          |                      |
| 1-Propanamine, 3-(trimethoxysilyl)-<br>13822-56-5 | EC50 (72h) > 1000 mg/l<br>(Desmodesmus subspicatus)<br>EU Method C.3<br>(Algal Inhibition test) | LC50 (96h) > 934 mg/L<br>(Danio rerio)<br>OECD 203                             | -                          | EC50 (48h) = 331 mg/L<br>(Daphnia magna)<br>OECD 202   |          |                      |
| Diocetyl tin oxide<br>870-08-6                    | EC50 (3hr) >1.000 mg/l<br>(bacteria)<br>(Activated Sludge, Respiration Inhibition Test)         | LC50 (96hr) >0,09 mg/l<br>(Brachydanio rerio (zebra))<br>(Acute Toxicity Test) | -                          | EC50 (48Hr) >0,21 mg/l<br>(Daphnia magna (Daphnia magna))<br>(Daphnia sp. Acute Immobilisation Test) |          |                      |

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Trimethoxyvinylsilane (2768-02-7)

| Method  | Exposure time | Value | Results                        |
|---|---------------|-------|--------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days       | BOD   | 51 % Not readily biodegradable |

1-Propanamine, 3-(trimethoxysilyl)- (13822-56-5)

| Method   | Exposure time | Value | Results                        |
|--|---------------|-------|--------------------------------|
| OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A) | 28 days       |       | 67 % Not readily biodegradable |

Diocetyl tin oxide (870-08-6)

| Method  | Exposure time | Value          | Results                       |
|---|---------------|----------------|-------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 755 hours     | biodegradation | Not readily biodegradable 2 % |

## 12.3. Bioaccumulative potential

### Bioaccumulation

#### Component Information

| Chemical name         | Partition coefficient |
|-----------------------|-----------------------|
| Trimethoxyvinylsilane | 1.1                   |
| Diocetyl tin oxide    | 6                     |

## 12.4. Mobility in soil

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**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name                       | PBT and vPvB assessment                                       |
|-------------------------------------|---|
| Trimethoxyvinylsilane               | The substance is not PBT / vPvB                               |
| Titanium dioxide                    | The substance is not PBT / vPvB PBT assessment does not apply |
| 1-Propanamine, 3-(trimethoxysilyl)- | The substance is not PBT / vPvB                               |
| Diocetyl tin oxide                  | The substance is not PBT / vPvB                               |

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## **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.

**Waste codes / waste designations according to EWC** Waste codes should be assigned by the user based on the application for which the product was used.

**European Waste Catalogue** 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**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 UN 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 precautions for user

Special Provisions None

### IMDG

14.1 UN number or ID number Not regulated

14.2 UN 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 precautions for user

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Special Provisions None  
14.7 Maritime transport in bulk according to IMO instruments  
Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

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

14.1 UN number or ID number Not regulated  
14.2 UN 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 precautions for user  
Special Provisions None

## 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 contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name      | CAS No   | Restricted substance per REACH Annex XVII |
|--------------------|----------|---|
| Diocetyl tin oxide | 870-08-6 | 20.                                       |

**20 (5)** DBT compounds not for sale to general public where concentration in mixture or article is greater than or equivalent of 0.1% by weight of tin.

##### 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)

##### Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

| Chemical name      | European Export/Import Restrictions per (EC) 649/2012 - Annex Number |
|--------------------|--|
| Diocetyl tin oxide | I.1  |

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

Not applicable

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**Persistent Organic Pollutants**  
Not applicable

## National regulations

### 15.2. Chemical safety assessment

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

## **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  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled

#### **Notes relating to the identification, classification and labelling of substances**

**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

#### **Legend**

|         |   |
|---------|---|
| TWA     | TWA (time-weighted average)   |
| STEL    | STEL (Short Term Exposure Limit)  |
| Ceiling | Ceiling Limit Value   |
| *       | Skin designation  |
| SVHC    | Substance(s) of Very High Concern   |
| 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  |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG    | International Maritime Dangerous Goods (IMDG)                                       |
| IATA    | International Air Transport Association (IATA)                                      |
| RID     | Regulations concerning the International Transport of Dangerous Goods by Rail       |

#### **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs  
**Revision date** 25-Jul-2023

#### Indication of changes

**Revision note** SDS sections updated, 1.  
**Training Advice** When working with hazardous materials, regular training of operators is required by law  
**Further information** No information available

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**This material safety data sheet complies with requirements of UK REACH Regulations (SI 2019/758 as amended)**

## **Disclaimer**

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**End of Safety Data Sheet**