

OB1 Multi-Surface Construction Sealant & Adhesive - Sandstone  
Date: 09.08.2024Replaces: 0500.0.BB/DL  
Ref: 0500.1.BB/DL**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product Name** OB1 Multi-Surface Construction Sealant & Adhesive - Sandstone  
**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** Not to be used in production of toys or childcare articles

**1.3. Details of the supplier of the safety data sheet****Company Name**

Siroflex Limited  
Dodworth Business Park  
Dodworth, Barnsley  
South Yorkshire, S75 3SP  
Tel +44 (0)1226 771600 Fax +44 (0)1226 771601  
**Further information available from:** [www.ob1original.com](http://www.ob1original.com)

**1.4. Emergency telephone number**

**United Kingdom** +44 (1226) 771600 (Office Hours Only)  
**Ireland**

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

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 & N-(3-(trimethoxysilyl)propyl)ethylenediamine & 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- & Dioctyltinbis(acetylacetonate). May produce an allergic reaction  
EUH210 - Safety data sheet available on request

**2.3. Other hazards**

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. May be harmful in contact with skin.

**PBT & vPvB**

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no

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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     | CAS No     | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP]                          | Specific concentration limit (SCL) | REACH registration number |
|--|-----------|------------|----------|--|------------------------------------|---------------------------|
| Trimethoxyvinylsilane                                  | 220-449-8 | 2768-02-7  | 1- <2.5  | Skin Sens. 1B (H317)<br>Acute Tox. 4 (H332)<br>Flam. Liq. 3 (H226)                       |                                    | 01-2119513215-52-XXXX     |
| Titanium dioxide                                       | 236-675-5 | 13463-67-7 | 0.1 - <1 | Carc. 2 (H351i)  |                                    | 01-2119489379-17-XXXX     |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine           | 217-164-6 | 1760-24-3  | 0.1 - <1 | Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335)      |                                    | 01-2119970215-39-XXXX     |
| Diocetyl tinbis(acetylacetonate)                       | 483-270-6 | 54068-28-9 | 0.1 - <1 | STOT SE 2 (H371)<br>Skin Sens. 1 (H317)  | Skin Sens. 1 :: C $\geq$ 5%        | 01-0000020199-67-XXXX     |
| 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- | 221-336-6 | 3069-29-2  | 0.1 - <1 | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317) |                                    | 01-2119963926-21-xxxx     |

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

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)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance. If medical advice is needed,

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

**Symptoms** None known.

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

**Note to doctors** 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

**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 monoxide. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide.

### 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.

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**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.

### 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** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing

| Chemical name                      | European Union                                  | Ireland   | United Kingdom  |
|------------------------------------|---|---|---|
| Diisononyl phthalate<br>28553-12-0 | -   | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>  | TWA: 5 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>  |
| Methyl alcohol<br>67-56-1          | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>* | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 600 ppm<br>STEL: 780 mg/m <sup>3</sup><br>Sk* | 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* |

| 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)

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| 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>           |               |

| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)</b> |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Systemic health effects<br>Long term                  | Inhalation     | 35.5 mg/m <sup>3</sup>         |               |
| worker<br>Systemic health effects<br>Long term                  | Dermal         | 5 mg/kg bw/d                   |               |

| <b>Diocetyl tinbis(acetylacetonate) (54068-28-9)</b>      |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Long term<br>Systemic health effects<br>worker            | Dermal         | 0.07 mg/kg bw/d                |               |
| Long term<br>Systemic health effects<br>worker            | Inhalation     | 84 mg/m <sup>3</sup>           |               |
| Short term<br>Systemic health effects<br>worker           | Inhalation     | 84 mg/m <sup>3</sup>           |               |
| Long term<br>Short term<br>Local health effects<br>worker | Inhalation     | 0.091 mg/m <sup>3</sup>        |               |

| <b>1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)</b> |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects                            | Inhalation     | 12 mg/m <sup>3</sup>           |               |
| worker<br>Long term<br>Systemic health effects                            | Dermal         | 1.7 mg/kg bw/d                 |               |

| <b>Derived No Effect Level (DNEL)</b>            |                |                                |               |
|--|----------------|--------------------------------|---------------|
| <b>Trimethoxyvinylsilane (2768-02-7)</b>         |                |                                |               |
| 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                 |               |

| <b>Titanium dioxide (13463-67-7)</b> |                |                                |               |
|--------------------------------------|----------------|--------------------------------|---------------|
| Type                                 | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|                                      |                |                                |               |

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|  |      |                |  |
|--|------|----------------|--|
| Consumer<br>Long term<br>Systemic health effects | Oral | 700 mg/kg bw/d |  |
|--|------|----------------|--|

| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)</b> |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Systemic health effects<br>Long term                | Oral           | 2.5 mg/kg bw/d                 |               |
| Consumer<br>Systemic health effects<br>Long term                | Inhalation     | 8.7 mg/m <sup>3</sup>          |               |
| Consumer<br>Systemic health effects<br>Long term                | Dermal         | 2.5 mg/kg bw/d                 |               |

| <b>1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)</b> |                |                                |               |
|---|----------------|--------------------------------|---------------|
| Type  | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer<br>Long term<br>Systemic health effects                          | Inhalation     | 2.9 mg/m <sup>3</sup>          |               |
| Consumer<br>Long term<br>Systemic health effects                          | Dermal         | 0.83 mg/kg bw/d                |               |
| Consumer<br>Long term<br>Systemic health effects                          | Oral           | 0.83 mg/kg bw/d                |               |

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

| <b>Predicted No Effect Concentration (PNEC)</b> |  |
|---|--|
| <b>Trimethoxyvinylsilane (2768-02-7)</b>        |  |
| 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                                 |

| <b>Titanium dioxide (13463-67-7)</b> |  |
|--------------------------------------|--|
| 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                               |

| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)</b> |  |
|---|--|
| Environmental compartment                                       | Predicted No Effect Concentration (PNEC) |
| Freshwater  | 0.062 mg/l                               |
| Marine water  | 0.0062 mg/l                              |
| Sewage treatment plant  | 25 mg/l                                  |

| <b>Diocetyl tinbis(acetylacetonate) (54068-28-9)</b> |  |
|--|--|
| Environmental compartment                            | Predicted No Effect Concentration (PNEC) |
| Freshwater   | 26 µg/l                                  |
| Marine water   | 2.6 µg/l                                 |
| Freshwater - intermittent                            | 260 µg/l                                 |
| Sewage treatment plant                               | 1 mg/l                                   |

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|                     |                         |
|---------------------|-------------------------|
| Freshwater sediment | 0.155 mg/kg dry weight  |
| Marine sediment     | 0.0155 mg/kg dry weight |
| Soil                | 0.0158 mg/kg dry weight |

| <b>1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]- (3069-29-2)</b> |  |
|---|--|
| Environmental compartment   | Predicted No Effect Concentration (PNEC) |
| Freshwater  | 0.062 mg/l                               |
| Marine water  | 0.006 mg/l                               |
| Sewage treatment plant  | 25 mg/l                                  |
| Freshwater sediment   | 0.24 mg/kg dry weight                    |
| Marine sediment   | 0.024 mg/kg dry weight                   |
| Soil  | 0.01 mg/kg dry weight                    |

## 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>          | See section 1 for more information |
| <b>Odour</b>           | Characteristic                     |
| <b>Odour threshold</b> | No information available           |

| Property                                       | Values                       | Remarks • Method |
|--|------------------------------|------------------|
| <b>pH</b>                                      | .                            |                  |
| <b>pH (as aqueous solution)</b>                | No data available            |                  |
| <b>Melting point / freezing point</b>          | No data available            |                  |
| <b>Initial boiling point and boiling range</b> | No data available            |                  |
| <b>Flash point</b>                             | > 60 °C                      |                  |
| <b>Evaporation rate</b>                        | No data available            |                  |
| <b>Flammability</b>                            | Not applicable for liquids . |                  |
| <b>Flammability Limit in Air</b>               |                              |                  |
| <b>Upper flammability or explosive limits</b>  | No data available            |                  |
| <b>Lower flammability or explosive limits</b>  | No data available            |                  |
| <b>Vapour pressure</b>                         | No data available            |                  |
| <b>Relative vapour density</b>                 | No data available            |                  |
| <b>Relative density</b>                        | No data available            |                  |
| <b>Water solubility</b>                        | Product cures with moisture  |                  |
| <b>Solubility(ies)</b>                         | No data available            |                  |
| <b>Partition coefficient</b>                   | No data available            |                  |

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|                           |                         |
|---------------------------|-------------------------|
| Autoignition temperature  | No data available       |
| Decomposition temperature | No data available       |
| Kinematic viscosity       | > 21 mm <sup>2</sup> /s |
| Dynamic viscosity         | No data available       |
| Explosive properties      | No data available       |
| Oxidising properties      | No data available       |

## 9.2. Other information

|                   |                          |
|-------------------|--------------------------|
| Solid content (%) | No information available |
| VOC Content (%)   |                          |
| Density           | 1.58 g/cm <sup>3</sup>   |

## 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 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.  |
| Skin contact | Based on available data, the classification criteria are not met. May be harmful in contact with skin. May cause sensitisation in susceptible persons. |



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

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

**Symptoms** No information available.

## Numerical measures of toxicity

### Acute toxicity

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

ATEmix (dermal) 3,552.50 mg/kg

ATEmix (inhalation-vapour) 699.5098 mg/l

### Component Information

| Chemical name  | Oral LD50                                    | Dermal LD50  | Inhalation LC50                              |
|--|--|--|--|
| Trimethoxyvinylsilane<br>2768-02-7   | LD50 = 7120 -7236 mg/kg<br>(Rattus) OECD 401 | = 3360 µL/kg (Oryctolagus<br>cuniculus)              | LC50 (4hr) 16.8 mg/l (Rattus)<br>OECD TG 403 |
| Titanium dioxide<br>13463-67-7   | >10000 mg/kg (Rattus)                        | LD50 > 10000 mg/Kg                                   | >5 mg/l                                      |
| N-(3-(trimethoxysilyl)propyl)eth<br>ylenediamine<br>1760-24-3              | =2295 mg/kg (Rattus)                         | >2000 mg/Kg (Rattus)                                 | LC50 4H (Aerosol)1.5 - 2.44<br>mg/L air      |
| Diocetylbinbis(acetylacetonate)<br>54068-28-9                              | LD50 =2500 mg/kg (Rattus)                    | LD50 >2000 mg/kg (Rattus)                            |  |
| 1,2-Ethanediamine,<br>N-[3-(dimethoxymethylsilyl)pro<br>pyl]-<br>3069-29-2 | =200 - 2000 mg/Kg (Rattus)<br>(OECD 401)     | >5000 mg/Kg (Oryctolagus<br>cuniculus)<br>(OECD 402) |  |

## 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.

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

**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         | No sensitisation responses<br>were observed |
| OECD Test No. 406: Skin<br>Sensitisation | Guinea pig | Dermal         | No sensitisation responses<br>were observed |

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

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

| Chemical name                  | European Union |
|--------------------------------|----------------|
| Titanium dioxide<br>13463-67-7 | Carc. 2        |

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

**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.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

| 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        | -  | -                          | -   |          |                      |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | -  | LC50 (96H) =597 mg/L<br>(Danio rerio)Semi-static | -                          | EC50 (48h) =81mg/L<br>Daphnia magna<br>Static |          |                      |
| Diocetyl tinbis(acetylacetonate)<br>54068-28-9            | -  | LC50 (96h) =86 mg/L (Static)                     | -                          | EC50 (48h) =58.6 mg/L<br>(Daphnia magna)      |          |                      |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

#### Component Information

##### Trimethoxyvinylsilane (2768-02-7)

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

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|                              |  |  |  |
|------------------------------|--|--|--|
| Respirometry Test (TG 301 F) |  |  |  |
|------------------------------|--|--|--|

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

| Chemical name   | Partition coefficient | Bioconcentration factor (BCF) |
|---|-----------------------|-------------------------------|
| Trimethoxyvinylsilane<br>2768-02-7                        | 1.1                   | -                             |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | -0.3                  | -                             |

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

| Chemical name   | PBT and vPvB assessment  |
|---|--|
| Trimethoxyvinylsilane<br>2768-02-7                                  | The substance is not PBT / vPvB                                  |
| Titanium dioxide<br>13463-67-7                                      | The substance is not PBT / vPvB<br>PBT assessment does not apply |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3           | The substance is not PBT / vPvB                                  |
| Diocetyl tinbis(acetylacetonate)<br>54068-28-9                      | The substance is not PBT / vPvB                                  |
| 1,2-Ethanediamine, N-[3-(dimethoxymethylsilyl)propyl]-<br>3069-29-2 | The substance is not PBT / vPvB                                  |

## 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Uncured product should be disposed of as hazardous waste. 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 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

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## 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 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 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           |

## 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 |
|----------------------|------------|---|
| Diisononyl phthalate | 28553-12-0 | 52[a].                                    |

52 . Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children.

##### 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

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and of the council concerning the export and import of dangerous chemicals

| Chemical name                  | European Export/Import Restrictions per (EC) 689/2008 - Annex Number |
|--------------------------------|--|
| Diocetylindis(acetylacetonate) | I.1  |

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

Not applicable

## 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  
H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H371 - May cause damage to organs

#### 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                                  |

#### Key literature references and sources for data

No information available

Prepared By Product Safety & Regulatory Affairs

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#### Indication of changes

Revision note Not applicable.

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|                            |   |
|----------------------------|---|
| <b>Training Advice</b>     | When working with hazardous materials, regular training of operators is required by law |
| <b>Further information</b> | No information available  |

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

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**