



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**OB1 MULTI-SURFACE SEALANT AND ADHESIVE BLACK**  
**Supersedes Date:** 03-Oct-2022

**Revision date** 03-Jan-2024  
**Revision Number** 4

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

### 1.1. Product identifier

**Product Name** OB1 MULTI-SURFACE SEALANT AND ADHESIVE BLACK

**Form** This substance/ mixture contains nanoforms

### Other means of identification

**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 articles intended for direct or prolonged skin contact Not to be used in production of toys or childcare articles Fabrics, textiles and apparel: bedding and clothing  
Gloves Footwear (shoes, boots) Paper products: tissue, towels, disposable dinnerware, nappies, feminine hygiene products, adult incontinence products, writing paper

**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 Benelux B.V.  
Denariusstraat 11  
4903 RC Oosterhout  
The Netherlands  
Tel: + 31 162 491 000

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

### 1.4. Emergency telephone number

**Emergency Telephone**  
**Ireland**

**NPIC - National Poison Information Centre**

Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)

Healthcare Professionals: +353 (01) 8092566 (24 hour service)

**United Kingdom**  
**Europe**

Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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]

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## 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 & N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine & 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.

## 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).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name                                                      | EC No (EU Index No).        | CAS No..   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                          | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|--------------------------------------------------------------------|-----------------------------|------------|------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|---------------------------|
| Diisononyl phthalate<br>10 - <20 %                                 | 249-079-5                   | 28553-12-0 | [I]                                                                                      | -                                  | -        | -                    | 01-2119430798-28-XXXX     |
| Trimethoxyvinylsilane<br>1 - <2.5 %                                | 220-449-8<br>(014-049-00-0) | 2768-02-7  | Skin Sens. 1B (H317)<br>Acute Tox. 4 (H332)<br>Flam. Liq. 3 (H226)                       | -                                  | -        | -                    | 01-2119513215-52-XXXX     |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>0.1 - <1 %         | 217-164-6                   | 1760-24-3  | Eye Dam. 1 (H318)<br>Skin Sens. 1 (H317)<br>Acute Tox. 4 (H332)<br>STOT SE 3 (H335)      | -                                  | -        | -                    | 01-2119970215-39-XXXX     |
| Dioctyltinbis(acetylacetonate)<br>0.1 - <0.5 %                     | 483-270-6                   | 54068-28-9 | STOT SE 2 (H371)<br>Skin Sens. 1 (H317)                                                  | Skin Sens. 1 :: C>=5%              | -        | -                    | 01-0000020199-67-XXXX     |
| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine<br>0.1 - <0.5 % | 221-336-6                   | 3069-29-2  | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317) | -                                  | -        | -                    | 01-2119963926-21-xxxx     |

### 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 | 200-659-6<br>(603-001-00-X) | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)                      | STOT SE 1 :: C>=10%<br>STOT SE 2 :: 3%<=C<10% | -        | -                    | 01-2119433307-44-XXXX     |

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|  |  |                                                                         |  |  |  |  |
|--|--|-------------------------------------------------------------------------|--|--|--|--|
|  |  | Acute Tox. 3<br>(H331)<br>STOT SE 1<br>(H370)<br>Flam. Liq. 2<br>(H225) |  |  |  |  |
|--|--|-------------------------------------------------------------------------|--|--|--|--|

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

*Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes*  
[I] - Restricted substance per REACH Annex XVII

## Acute Toxicity Estimate

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

| Chemical name                                      | EC No (EU Index No)         | CAS No.    | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|----------------------------------------------------|-----------------------------|------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Diisononyl phthalate                               | 249-079-5                   | 28553-12-0 | -               | -                 | -                                           | -                                        | -                                    |
| Trimethoxyvinylsilane                              | 220-449-8<br>(014-049-00-0) | 2768-02-7  | -               | -                 | -                                           | 11                                       | -                                    |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine       | 217-164-6                   | 1760-24-3  | -               | -                 | 1.5                                         | -                                        | -                                    |
| Dioctyltinbis(acetylacetonate)                     | 483-270-6                   | 54068-28-9 | -               | -                 | -                                           | -                                        | -                                    |
| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine | 221-336-6                   | 3069-29-2  | 500             | -                 | -                                           | -                                        | -                                    |

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

|                       |                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>    | Consult an ophthalmologist. 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>      | Small amounts of toxic methanol are released by hydrolysis. Small amounts of toxic methanol are released by hydrolysis. Call a doctor immediately. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. |

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

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Symptoms None known.

Effects of Exposure No information available.

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

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

### **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.

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.

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**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** Keep containers tightly closed in a cool, well-ventilated place. 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** 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* |
| Carbon black<br>1333-86-4                    | -                                               | TWA: 3 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>                                            | TWA: 3.5 mg/m <sup>3</sup><br>STEL: 7 mg/m <sup>3</sup>                                           |
| Diocetyltnbis(acetylacetonate)<br>54068-28-9 | -                                               | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup>                                         | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup><br>Sk*                                  |

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

| Derived No Effect Level (DNEL)                 |                |                                |               |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Diisononyl phthalate (28553-12-0)              |                |                                |               |
| Type                                           | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker<br>Long term<br>Systemic health effects | Inhalation     | 51.72 mg/m <sup>3</sup>        |               |
| worker<br>Long term<br>Systemic health effects | Dermal         | 366 mg/kg bw/d                 |               |

| 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                                         | Dermal         | 3,9 mg/kg bw/d                 |               |

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|--------------------------------------|--|--|--|
| Systemic health effects<br>Long term |  |  |  |
|--------------------------------------|--|--|--|

| N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3) |                |                                |               |
|----------------------------------------------------------|----------------|--------------------------------|---------------|
| 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                   |               |

| Diocetyl tinbis(acetylacetonate) (54068-28-9)             |                |                                |               |
|-----------------------------------------------------------|----------------|--------------------------------|---------------|
| 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>        |               |

| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2) |                |                                |               |
|----------------------------------------------------------------|----------------|--------------------------------|---------------|
| 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                 |               |

| 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                 |               |

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

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|--------------------------------------------------|------------|-----------------------|--|
| Long term                                        |            |                       |  |
| 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>N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (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)

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

| <b>N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (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

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|                          |                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection      | Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166                                                                                                                                                                                                                                                                                                    |
| Hand protection          | 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 |
| Skin and body protection | None under normal use conditions.                                                                                                                                                                                                                                                                                                                                                                     |
| Respiratory protection   | 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.                                                                                                                                                                                                     |
| Recommended filter type: | 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

|                |                 |
|----------------|-----------------|
| Physical state | Solid           |
| Appearance     | Paste           |
| Colour         | Black           |
| Odour          | Characteristic. |

| Property                                | Values                                         | Remarks • Method                   |
|-----------------------------------------|------------------------------------------------|------------------------------------|
| Melting point / freezing point          | No data available                              |                                    |
| Initial boiling point and boiling range | No data available                              |                                    |
| Flammability                            | No data available                              |                                    |
| Flammability Limit in Air               |                                                | None known                         |
| Upper flammability or explosive limits  | No data available                              |                                    |
| Lower flammability or explosive limits  | No data available                              |                                    |
| Flash point                             | > 60 °C                                        | CC (closed cup)                    |
| Autoignition temperature                | No data available                              |                                    |
| Decomposition temperature               |                                                | None known                         |
| pH                                      | .                                              | Not applicable. Reacts with water. |
| pH (as aqueous solution)                | No data available                              |                                    |
| Kinematic viscosity                     | > 21 mm <sup>2</sup> /s                        | @ 40 °C                            |
| Dynamic viscosity                       | No data available                              |                                    |
| Water solubility                        | Reacts with water. Product cures with moisture |                                    |
| Solubility(ies)                         | No data available                              |                                    |
| Partition coefficient                   | No data available                              |                                    |
| Vapour pressure                         | No data available                              |                                    |
| Relative density                        | No data available                              |                                    |
| Bulk Density                            | No data available                              |                                    |
| Density                                 | 1.58 g/cm <sup>3</sup>                         |                                    |
| Relative vapour density                 | No data available                              |                                    |
| Particle characteristics                |                                                |                                    |
| Particle Size                           | No information available                       |                                    |
| Particle Size Distribution              | No information available                       |                                    |

### 9.2. Other information

|                   |                          |
|-------------------|--------------------------|
| Solid content (%) | No information available |
| VOC content       | No data available        |

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available



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## 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.

Skin contact Based on available data, the classification criteria are not met. May cause sensitisation in susceptible persons.

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

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

Symptoms No information available.

#### Acute toxicity

#### Numerical measures of toxicity

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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) 722.00 mg/l

## Component Information

| Chemical name                                      | Oral LD50                                 | Dermal LD50                                    | Inhalation LC50                           |
|----------------------------------------------------|-------------------------------------------|------------------------------------------------|-------------------------------------------|
| Diisononyl phthalate                               | >9750 mg/kg (Rattus)                      | >3160 mg/Kg (Oryctolagus cuniculus)            | >4.4 mg/L (Rattus) 4 h                    |
| Trimethoxyvinylsilane                              | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401 | = 3540 mg/kg (Oryctolagus cuniculus)           | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine       | =2295 mg/kg (Rattus)                      | >2000 mg/Kg (Rattus)                           | LC50 4H (Aerosol)1.5 - 2.44 mg/L air      |
| Diocetyltnbis(acetylacetonate)                     | LD50 =2500 mg/kg (Rattus)                 | LD50 >2000 mg/kg (Rattus)                      | = 5.1 mg/L ( Rat ) 4 h                    |
| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine | =200 - 2000 mg/Kg (Rattus) (OECD 401)     | >5000 mg/Kg (Oryctolagus cuniculus) (OECD 402) | > 5.2 mg/L ( Rattus ) 4 h (OECD 403)      |

## 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.

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

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

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

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

**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 Sensitisation | Guinea pig | Dermal         | No sensitisation responses were observed |

Diocetyltnbis(acetylacetonate) (54068-28-9)

| Method                                                        | Species | Exposure route | Results           |
|---------------------------------------------------------------|---------|----------------|-------------------|
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay |         | Dermal         | > 5 % sensitising |

N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2)

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

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## Component Information

Trimethoxyvinylsilane (2768-02-7)

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method                                                        | Species                  | Results  |
|---------------------------------------------------------------|--------------------------|----------|
| OECD Test No. 471: Bacterial Reverse Mutation Test            | Mammalian cells in vitro | Negative |
| OECD Test No. 476: In vitro Mammalian Cell Gene Mutation Test | Mammalian cells in vitro | Negative |

## Carcinogenicity

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

## Reproductive toxicity

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

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| Method                                                                                                               | Species  | Results          |
|----------------------------------------------------------------------------------------------------------------------|----------|------------------|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat Oral | NOAEL >500 mg/Kg |

## 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.

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 |

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)

| 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     | Subacute oral toxicity gavage |                | 28 days       | NOAEL >500 mg/kg |

## 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

### 11.2.2. Other information

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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) |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|----------|----------------------|
| Diisononyl phthalate<br>28553-12-0                        | EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i> )<br>EC50: >1.8mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) | LC50 96 h > 100 mg/L (Brachydanio rerio semi-static)   | -                          | EC50: >500mg/L (48h, <i>Daphnia magna</i> )<br>EC50: >0.06mg/L (48h, <i>Daphnia magna</i> ) |          |                      |
| Trimethoxyvinylsilane<br>2768-02-7                        | EC 50 (72h) > 957 mg/l ( <i>Desmodesmus subspicatus</i> )<br>EU Method C.3                                             | LC50 (96h) = 191 mg/l ( <i>Oncorhynchus mykiss</i> )   | -                          | EC50(48hr) 168.7mg/l ( <i>Daphnia magna</i> )                                               |          |                      |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine<br>1760-24-3 | -                                                                                                                      | LC50 (96H) =597 mg/L ( <i>Danio rerio</i> )Semi-static | -                          | EC50 (48h) =81mg/L <i>Daphnia magna</i> Static                                              |          |                      |
| Dioctyltinbis(acetylacetonate)<br>54068-28-9              | -                                                                                                                      | LC50 (96h) =86 mg/L (Static)                           | -                          | EC50 (48h) =58.6 mg/L ( <i>Daphnia magna</i> )                                              |          |                      |

### 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 |

### 12.3. Bioaccumulative potential

#### Bioaccumulation

##### Component Information

| Chemical name                                | Partition coefficient |
|----------------------------------------------|-----------------------|
| Diisononyl phthalate                         | 9.7                   |
| Trimethoxyvinylsilane                        | 1.1                   |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | -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 The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

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| Chemical name                                      | PBT and vPvB assessment         |
|----------------------------------------------------|---------------------------------|
| Diisononyl phthalate                               | The substance is not PBT / vPvB |
| Trimethoxyvinylsilane                              | The substance is not PBT / vPvB |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine       | The substance is not PBT / vPvB |
| Dioctyltinbis(acetylacetonate)                     | The substance is not PBT / vPvB |
| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine | 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.                                                      |
| 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                                  |                |
| 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 |

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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, Authorisation, 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].                                    |
| Diocetylbinbis(acetylacetonate) | 54068-28-9 | 20.                                       |

**20 (6) DOT. 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 and of the council concerning the export and import of dangerous chemicals

| Chemical name                   | European Export/Import Restrictions per (EC) 649/2012 - Annex Number |
|---------------------------------|----------------------------------------------------------------------|
| Diocetylbinbis(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

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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

SVHC: Substances of Very High Concern for Authorisation:

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

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

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

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

IATA: International Air Transport Association

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

IMDG: International Maritime Dangerous Goods

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

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

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

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

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

European Food Safety Authority (EFSA)

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

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European Chemicals Agency (ECHA) (ECHA\_API)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
NIOSH (National Institute for Occupational Safety and Health)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 03-Jan-2024

**Revision note** SDS sections updated 3 8 11 12 16

**Training Advice** No information available

**Further information** No information available

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**

Regulation (EC) No. 1272/2008 and Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878

**Disclaimer**

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**End of Safety Data Sheet**