



SAFETY DATA SHEET

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

OB1 MULTI-SURFACE SEALANT AND ADHESIVE WHITE
Supersedes Date: 26-Feb-2024

Revision date 05-Mar-2024
Revision Number 3.03

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

1.1. Product identifier

Product Name OB1 MULTI-SURFACE SEALANT AND ADHESIVE WHITE

Pure substance/mixture Mixture

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

Recommended use Adhesives and/or sealants

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

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

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

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

2.2. Label elements

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

Signal word

None

Hazard statements

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

EU Specific Hazard Statements

EUH208 - Contains Trimethoxyvinylsilane & N-(3-(trimethoxysilyl)propyl)ethylenediamine & N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine & Dioctyltinbis(acetylacetonate). May produce an allergic reaction
EUH210 - Safety data sheet available on request

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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).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | EC No (EU Index No) | CAS No. | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | REACH registration number |
|--|-----------------------------|------------|------------|--|------------------------------------|---------------------------|
| Diisononyl phthalate | 249-079-5 | 28553-12-0 | 10 - <20 | [I] | - | 01-2119430798-28-XXXX |
| Trimethoxyvinylsilane | 220-449-8 (014-049-00-0) | 2768-02-7 | 1 - <2.5 | Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226) | - | 01-2119513215-52-XXXX |
| Titanium dioxide | 236-675-5 (022-006-00-2) | 13463-67-7 | 0.1- <1 | [C] | - | 01-2119489379-17-XXXX |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | 217-164-6 | 1760-24-3 | 0.1- <1 | Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H332) STOT SE 3 (H335) | - | 01-2119970215-39-XXXX |
| Diocetyl tinbis(acetylacetonate) | 483-270-6 | 54068-28-9 | 0.1 - <0.5 | STOT SE 2 (H371) Skin Sens. 1 (H317) | Skin Sens. 1 :: C>=5% | 01-0000020199-67-XXXX |
| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine | 221-336-6 | 3069-29-2 | 0.1 - <0.5 | Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) | - | 01-2119963926-21-xxxx |

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

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

[I] - Restricted substance per REACH Annex XVII

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

Air contaminants formed when using the substance or mixture as intended

| Chemical name | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|---------------------------|-----------------------------|---|---|----------|----------------------|---------------------------|
| Methyl alcohol 67-56-1 | 200-659-6 (603-001-00-X) | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225) | STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10% | - | - | 01-2119433307-44-XXXX |

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

Notes

See section 16 for more information

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | If medical advice is needed, have product container or label at hand. |
| Inhalation | Remove to fresh air. If symptoms persist, call a doctor. |
| Eye contact | 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. Consult an ophthalmologist. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. |
| Ingestion | Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately. Small amounts of toxic methanol are released by hydrolysis. |

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

| | |
|----------------------------|---------------------------|
| 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. Treat symptomatically. |
|------------------------|---|

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), 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 monoxide. Carbon dioxide (CO₂).

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 Ensure adequate ventilation. Use personal protective equipment as required. 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 Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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. Use personal protection equipment. Avoid contact with skin, eyes or clothing.

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs.

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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 This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

| Chemical name | European Union | United Kingdom |
|--|---|---|
| Diisononyl phthalate 28553-12-0 | - | TWA: 5 mg/m ³ STEL: 15 mg/m ³ |
| Methyl alcohol 67-56-1 | TWA: 200 ppm TWA: 260 mg/m ³ * | TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk* |
| Titanium dioxide 13463-67-7 | - | TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³ |
| Dioctyltinbis(acetylacetonate) 54068-28-9 | - | TWA: 0.1 mg/m ³ STEL: 0.2 mg/m ³ Sk* |

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

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 Long term Systemic health effects | Inhalation | 51.72 mg/m ³ | |
| worker Long term Systemic health effects | Dermal | 366 mg/kg bw/d | |

Trimethoxyvinylsilane (2768-02-7)

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

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

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

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

| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Inhalation | 12 mg/m ³ | |
| worker Long term 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 Systemic health effects Long term | Inhalation | 18,9 mg/m ³ | |
| Consumer Systemic health effects Long term | Dermal | 7,8 mg/kg bw/d | |
| Consumer Systemic health effects Long term | Oral | 0,3 mg/kg bw/d | |

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| Titanium dioxide (13463-67-7) | | | |
|--|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Long term Systemic health effects | Oral | 700 mg/kg bw/d | |

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

| N-[3-(Dimethoxymethylsilyl)propyl]-ethylenediamine (3069-29-2) | | | |
|---|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| Consumer Long term Systemic health effects | Inhalation | 2.9 mg/m ³ | |
| Consumer Long term Systemic health effects | Dermal | 0.83 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Oral | 0.83 mg/kg bw/d | |

Predicted No Effect Concentration (PNEC)

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

| Titanium dioxide (13463-67-7) | |
|--------------------------------------|--|
| Environmental compartment | Predicted No Effect Concentration (PNEC) |
| Marine water | 0.0184 mg/l |
| Freshwater sediment | 1000 mg/kg |
| Freshwater | 0.184 mg/l |
| Marine sediment | 100 mg/kg |
| Soil | 100 mg/kg |
| Microorganisms in sewage treatment | 100 mg/l |
| Freshwater - intermittent | 0.193 mg/l |

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

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

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| 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 |

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

- 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. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 480 min. Gloves must conform to standard EN 374
- Skin and body protection** Wear suitable protective clothing.
- 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 | White |
| Odour | Characteristic. |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-------------------------|------------------------------------|
| 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 ² /s | @ 40°C |

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| | |
|-------------------------------|--|
| 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 |
| Liquid Density | 1.58 g/cm ³ |
| 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

Minimum Ignition Temperature 420
(°C)

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 Protect from moisture. Product cures with moisture.

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

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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

| | |
|-------------------------------|-------------|
| ATEmix (oral) | >5000 mg/kg |
| ATEmix (dermal) | >5000 mg/kg |
| ATEmix (inhalation-gas) | >20000 ppm |
| ATEmix (inhalation-dust/mist) | >5 mg/l |
| ATEmix (inhalation-vapour) | >20 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 |
| Titanium dioxide | >10000 mg/kg (Rattus) | LD50 > 5000 mg/Kg | = 5.09 mg/L (Rattus) 4 h |
| 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.

Titanium dioxide (13463-67-7)

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

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

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

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| | | | | | |
|-----------------------------------|--|--|--|--|--|
| Acute Dermal Irritation/Corrosion | | | | | |
|-----------------------------------|--|--|--|--|--|

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

Titanium dioxide (13463-67-7)

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

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 May produce an allergic reaction. OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data.

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

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

Component Information
Trimethoxyvinylsilane (2768-02-7)

| Method | Species | Results |
|--|----------|---------------|
| OECD Test No. 471: Bacterial Reverse 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.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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 | Rat Oral | NOAEL >500 mg/Kg |

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| | | |
|------|--|--|
| Test | | |
|------|--|--|

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

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|------------------------------------|--|---|----------------------------|---|----------|----------------------|
| Diisononyl phthalate 28553-12-0 | EC50: >500mg/L (72h, Desmodesmus subspicatus) EC50: >1.8mg/L (96h, Pseudokirchneriella subcapitata) | LC50 96 h > 100 mg/L (Brachydanio rerio semi-static) | - | EC50: >500mg/L (48h, Daphnia magna) EC50: >0.06mg/L (48h, Daphnia magna) | | |
| Trimethoxyvinylsilane 2768-02-7 | EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3 | LC50 (96h) = 191 mg/l (Oncorhynchus mykiss) | - | EC50(48hr) 168.7mg/l (Daphnia magna) | | |
| Titanium dioxide 13463-67-7 | LC50 (96h) >10000 mg/l (Cyprinodon) | - | - | - | | |

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| | variegatus) OECD 203 | | | | | |
|---|-------------------------|---|---|--|--|--|
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | - | LC50 (96H) =597 mg/L (Danio rerio)Semi-static | - | EC50 (48h) =81mg/L Daphnia magna Static | | |
| Diocetylbinbis(acetylacetonate) 54068-28-9 | - | LC50 (96h) =86 mg/L (Static) | - | EC50 (48h) =58.6 mg/L (Daphnia magna) | | |

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.

| Chemical name | PBT and vPvB assessment |
|--|---------------------------------|
| Diisononyl phthalate | The substance is not PBT / vPvB |
| Trimethoxyvinylsilane | The substance is not PBT / vPvB |
| Titanium dioxide | The substance is not PBT / vPvB |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | The substance is not PBT / vPvB |
| Diocetylbinbis(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

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| | |
|--|--|
| 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 | - |
| 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 |
| 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:

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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

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

Notes relating to the identification, classification and labelling of substances

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

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

Notes relating to the classification and labelling of mixtures

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$

Legend

| | |
|---------|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| Sk* | Skin designation |
| SVHC | Substance(s) of Very High Concern |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| vPvB | Very Persistent and very Bioaccumulative (vPvB) Chemicals |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| EWC | European Waste Catalogue |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG | International Maritime Dangerous Goods (IMDG) |
| IATA | International Air Transport Association (IATA) |
| RID | Regulations concerning the International Transport of Dangerous Goods by Rail |

Key literature references and sources for data

No information available

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Indication of changes

Revision note SDS sections updated, 1, 11.
Training Advice No information available
Further information No information available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

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