



SAFETY DATA SHEET

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

SIROFLEX MIGHTY STRENGTH GRIP & GRAB ADHESIVE
Supersedes Date: 02-May-2023

Revision date 02-May-2023
Revision Number 1

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

1.1. Product identifier

Product Name SIROFLEX MIGHTY STRENGTH GRIP & GRAB ADHESIVE

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. 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 |
|--|-----------------------------|-----------|------------|--|------------------------------------|---------------------------|
| Trimethoxyvinylsilane | (014-049-00-0) 220-449-8 | 2768-02-7 | 1 - <2.5 | Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226) | - | 01-2119513215-52-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 tin oxide | 212-791-1 | 870-08-6 | 0.1 - <0.5 | STOT SE 2 (H371) | - | 01-2119971268-27-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 |

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

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| | | | | | | |
|--|--|---|---------------------------|--|--|--|
| | | Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225) | STOT SE 2 :: 3%<=C<10% | | | |
|--|--|---|---------------------------|--|--|--|

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. If medical advice is needed, 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. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. |
| Ingestion | Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Small amounts of toxic methanol are released by hydrolysis. |

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

| | |
|-----------------|-------------|
| Symptoms | None known. |
|-----------------|-------------|

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Water spray, carbon dioxide (CO ₂), 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 ₂). Nitrogen oxides (NO _x). Silicon dioxide. |

5.3. Advice for firefighters

| | |
|---|---|
| Special protective equipment and | Wear self contained breathing apparatus for fire fighting if necessary. |
|---|---|

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precautions for fire-fighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Protect from moisture. Keep away from food, drink and animal feedingstuffs.

Recommended storage temperature Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)
Adhesives and/or sealants.

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

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

| Chemical name | European Union | United Kingdom |
|----------------|----------------|----------------|
| Methyl alcohol | TWA: 200 ppm | TWA: 200 ppm |

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| | | |
|--------------------------------|---------------------------------|---|
| 67-56-1 | TWA: 260 mg/m ³ * | TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk* |
| Diocetyl tin oxide 870-08-6 | - | 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) | | | |
|--|----------------|--------------------------------|---------------|
| 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 | |

| 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 | |

| Diocetyl tin oxide (870-08-6) | | | |
|--|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Dermal | 0.05 mg/kg bw/d | |
| worker Long term Systemic health effects | Inhalation | 0.004 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 | Inhalation | 18,9 mg/m ³ | |

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| | | | |
|--|--------|----------------|--|
| Systemic health effects Long term | | | |
| 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 | |

| 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 | |

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

| 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 |

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

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

| | |
|---|--|
| 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. 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 | See section 1 for more information |
| Odour | Characteristic. |
| Odour threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flammability | . | |
| 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 | |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |

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| | | |
|----------------------------|--|--------------------------|
| pH | | |
| pH (as aqueous solution) | No data available | None known |
| Kinematic viscosity | > 21 mm ² /s | |
| Dynamic viscosity | No data available | No information available |
| Water solubility | No data available. Product cures with moisture | |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapour pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk Density | No data available | |
| Liquid Density | 1.54 g/cm ³ | |
| Relative vapour density | No data available | None known |
| Particle characteristics | | |
| Particle Size | No information available | |
| Particle Size Distribution | No information available | |

9.2. Other information

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

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

| | |
|------------|------------------------------|
| Reactivity | Product cures with moisture. |
|------------|------------------------------|

10.2. Chemical stability

| | |
|-----------|---------------------------------|
| Stability | Stable under normal conditions. |
|-----------|---------------------------------|

Explosion data

| | |
|----------------------------------|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |

10.3. Possibility of hazardous reactions

| | |
|------------------------------------|-------------------------------|
| Possibility of hazardous reactions | None under normal processing. |
|------------------------------------|-------------------------------|

10.4. Conditions to avoid

| | |
|---------------------|--|
| Conditions to avoid | Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition. |
|---------------------|--|

10.5. Incompatible materials

| | |
|------------------------|---|
| Incompatible materials | None known based on information supplied. |
|------------------------|---|

10.6. Hazardous decomposition products

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

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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

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) | 696.623 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|---|--|---|
| Trimethoxyvinylsilane | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401 | = 3540 mg/kg (Oryctolagus cuniculus) | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | =2295 mg/kg (Rattus) | >2000 mg/Kg (Rattus) | LC50 4H (Aerosol) 1.5 - 2.44 mg/L air |
| Diocetyl tin oxide | =2500 mg/kg (Rattus) | LD50 > 2000 mg/kg (Rattus) OECD 402 | - |
| 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.

Trimethoxyvinylsilane (2768-02-7)

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

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

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

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|----------------------|--|--|--|--|--|
| Irritation/Corrosion | | | | | |
|----------------------|--|--|--|--|--|

Serious eye damage/eye irritation 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. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | 24 hours | Non-irritant |

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

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

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

Trimethoxyvinylsilane (2768-02-7)

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

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

| Method | Species | Exposure route | Results |
|--|------------|----------------|-------------|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | | Sensitizing |

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 |

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

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

Trimethoxyvinylsilane (2768-02-7)

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

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STOT - single exposure

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

Diocetyl tin oxide (870-08-6)

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

STOT - repeated exposure

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

Trimethoxyvinylsilane (2768-02-7)

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

Diocetyl tin oxide (870-08-6)

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

Aspiration hazard

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|---|--|--|----------------------------|---|----------|----------------------|
| 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) | | |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine 1760-24-3 | - | LC50 (96H) =597 mg/L (Danio rerio)Semi-static | - | EC50 (48h) =81mg/L Daphnia magna Static | | |
| Diocetyl tin oxide 870-08-6 | EC50 (3hr) >1.000 mg/l (bacteria) (Activated Sludge, Respiration | LC50 (96hr) >0,09 mg/l (Brachydanio rerio (zebra)) (Acute Toxicity Test) | - | EC50 (48Hr) >0,21 mg/l (Daphnia magna (Daphnia magna)) (Daphnia sp. | | |

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|--|------------------|--|--|----------------------------------|--|--|
| | Inhibition Test) | | | Acute Immobilisation Test) | | |
|--|------------------|--|--|----------------------------------|--|--|

12.2. Persistence and degradability

Persistence and degradability No information available.

Trimethoxyvinylsilane (2768-02-7)

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

Diocetyl tin oxide (870-08-6)

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

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|--|-----------------------|
| Trimethoxyvinylsilane | 1.1 |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | -0.3 |
| Diocetyl tin oxide | 6 |

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 |
|--|---------------------------------|
| Trimethoxyvinylsilane | The substance is not PBT / vPvB |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine | The substance is not PBT / vPvB |
| Diocetyl tin oxide | 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.

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| | |
|--------------------------|---|
| 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 |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

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

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EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

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

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

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

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

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

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

Not applicable

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

Legend

| | |
|---------|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value |
| * | Skin designation |
| SVHC | Substance(s) of Very High Concern |
| PBT | Persistent, Bioaccumulative, and Toxic (PBT) Chemicals |
| vPvB | Very Persistent and very Bioaccumulative (vPvB) Chemicals |
| STOT RE | Specific target organ toxicity - Repeated exposure |
| STOT SE | Specific target organ toxicity - Single exposure |
| EWC | European Waste Catalogue |

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| | |
|------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| IMDG | International Maritime Dangerous Goods (IMDG) |
| IATA | International Air Transport Association (IATA) |
| RID | Regulations concerning the International Transport of Dangerous Goods by Rail |

Key literature references and sources for data

No information available

| | |
|-------------------------------------|-------------------------------------|
| Prepared By | Product Safety & Regulatory Affairs |
| Revision date | 02-May-2023 |
| <u>Indication of changes</u> | |

| | |
|----------------------------|---|
| Revision note | Not applicable. |
| Training Advice | When working with hazardous materials, regular training of operators is required by law |
| Further information | No information available |

This material safety data sheet complies with 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