SAFETY DATA SHEET
Glasroc X Sealant

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

1.1. Product identifier
Product name Glasroc X Sealant

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Sealant.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier British Gypsum
East Leake
Loughborough
Leicestershire
LE12 6HX
UK
T: +44 (0) 115 945 6123
E: bgtechnical.enquiries@bpb.com

1.4. Emergency telephone number
Emergency telephone +44 (0) 115 945 6123
8:30am - 5.00pm Monday - Friday (GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Eye Irrit. 2 - H319
Environmental hazards Not Classified

2.2. Label elements
Hazard pictograms

Signal word Warning
Hazard statements H319 Causes serious eye irritation.
Glascor X Sealant

Precautionary statements

P102 Keep out of reach of children.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Compound</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>1 - &lt;2.5%</td>
<td>2768-02-7</td>
<td>220-449-8</td>
<td>01-2119513215-52-XXXX</td>
</tr>
<tr>
<td>Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium</td>
<td>1 - &lt;2.5%</td>
<td>83877-91-2</td>
<td>281-161-6</td>
<td>01-2119968551-31-XXXX</td>
</tr>
<tr>
<td>Methanol</td>
<td>&lt;1%</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>01-2119433307-44-XXXX</td>
</tr>
</tbody>
</table>

Classification

Flam. Liq. 3 - H226
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335, H336

STOT SE 3 - H335, H336

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Glasroc X Sealant

Inhalation
Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

Ingestion
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. If adhesive bonding occurs, do not force skin apart.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. If adhesive bonding occurs, do not force eyelids apart.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

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

General information
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
May cause irritation. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact
Prolonged contact may cause dryness of the skin. May be slightly irritating to skin.

Eye contact
Irritating to eyes. Redness. Profuse watering of the eyes.

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

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon dioxide (CO2). Carbon monoxide (CO).
Glasroc X Sealant

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions
Immiscible with water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Keep out of the reach of children. Read and follow manufacturer's recommendations. Do not handle until all safety precautions have been read and understood. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities
Glasroc X Sealant

**Storage precautions**
Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

**Storage class**
Chemical storage.

**7.3. Specific end use(s)**
The identified uses for this product are detailed in Section 1.2.

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**SECTION 8: Exposure controls/Personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

**Methanol**

- Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³
- Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through the skin.

**Trimethoxyvinylsilane (CAS: 2768-02-7)**

- **DNEL**
  - Workers - Inhalation: Long term systemic effects: 27.6 mg/m³
  - Workers - Dermal: Long term systemic effects: 3.9 mg/kg/day
  - General population - Inhalation: Long term systemic effects: 18.9 mg/m³
  - General population - Dermal: Long term systemic effects: 7.8 mg/kg/day
  - General population - Oral: Long term systemic effects: 0.3 mg/kg/day

- **PNEC**
  - Fresh water: 0.4 mg/l
  - marine water: 0.04 mg/l
  - STP: 6.6 mg/l
  - Sediment (Freshwater): 1.5 mg/kg
  - Sediment (Marine water): 0.15 mg/kg
  - Soil: 0.06 mg/kg

**Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium (CAS: 83877-91-2)**

- **DNEL**
  - Workers - Inhalation: Long term systemic effects: 254 mg/m³
  - General population - Inhalation: Long term systemic effects: 303 mg/m³
  - General population - Dermal: Long term systemic effects: 220 mg/kg/day
  - General population - Oral: Long term systemic effects: 22 mg/kg/day

- **PNEC**
  - Fresh water: 0.1 mg/l
  - Fresh water, Intermittent release: 1 mg/l
  - marine water: 0.01 mg/l
  - STP: 28 mg/l
  - Sediment (Freshwater): 0.082 mg/kg
  - Sediment (Marine water): 0.008 mg/kg
  - Soil: 0.019 mg/kg

**Methanol (CAS: 67-56-1)**

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Glasroc X Sealant

DNEL

- **Workers - Inhalation; Long term systemic effects, local effects:** 130 mg/m³
- **Workers - Inhalation; Short term systemic effects, local effects:** 130 mg/m³
- **Workers - Dermal; Long term systemic effects:** 20 mg/kg/day
- **Workers - Dermal; Short term systemic effects:** 20 mg/kg/day
- **General population - Inhalation; Long term systemic effects, local effects:** 26 mg/m³
- **General population - Inhalation; Short term systemic effects, local effects:** 26 mg/m³
- **General population - Dermal; Long term systemic effects:** 4 mg/kg/day
- **General population - Dermal; Short term systemic effects:** 4 mg/kg/day
- **General population - Oral; Long term systemic effects:** 4 mg/kg/day
- **General population - Oral; Short term systemic effects:** 4 mg/kg/day

PNEC

- **Fresh water:** 20.8 mg/l
- **Fresh water, Intermittent release:** 1540 mg/l
- **marine water:** 2.08 mg/l
- **STP:** 100 mg/l
- **Sediment (Freshwater):** 77 mg/kg
- **Sediment (Marine water):** 7.7 mg/kg
- **Soil:** 100 mg/kg

### 8.2. Exposure controls

**Appropriate engineering controls**

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. For work of short duration or where a high degree of manual dexterity is needed, use protective gloves made of: Butyl rubber. Nitrile rubber. For work of long duration or where mechanical processes present a risk, use protective gloves made of: Viton rubber (fluoro rubber). The selected gloves should have a breakthrough time of at least 0.5 hours. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

**Other skin and body protection**

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

**Hygiene measures**

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
**Glasroc X Sealant**

**Respiratory protection**  
Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls**  
Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Paste</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Various colours.</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Characteristic.</td>
</tr>
<tr>
<td><strong>Odour threshold</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>&gt; 93°C</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>0.01 hPa</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>1.35 g/cm³</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>&gt; 20.5 mm²/s @ 40°C</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Does not meet the criteria for classification as oxidising.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Volatile organic compound</strong></td>
<td>0.21%</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**  
See the other subsections of this section for further details.
Glasroc X Sealant

10.2. Chemical stability

Stability
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products
Methanol. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral
Summary
Based on available data the classification criteria are not met.
ATE oral (mg/kg) 10,101.01

Acute toxicity - dermal
Summary
Based on available data the classification criteria are not met.
ATE dermal (mg/kg) 30,303.03

Acute toxicity - inhalation
Summary
Based on available data the classification criteria are not met.
ATE inhalation (vapours mg/l) 209.11

Skin corrosion/irritation
Summary
Based on available data the classification criteria are not met.

Serious eye damage/irritation
Summary
Causes serious eye irritation.

Respiratory sensitisation
Summary
Based on available data the classification criteria are not met.

Skin sensitisation
Summary
Based on available data the classification criteria are not met.

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

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

IARC carcinogenicity
None of the ingredients are listed or exempt.

Reproductive toxicity
Glasroc X Sealant

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

Specific target organ toxicity - single exposure
Summary
Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure
Summary
Based on available data the classification criteria are not met.

Aspiration hazard
Summary
Based on available data the classification criteria are not met.

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Prolonged inhalation of high concentrations may damage respiratory system. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.

Ingestion
Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact
Prolonged contact may cause dryness of the skin. May be slightly irritating to skin.

Eye contact
Irritating to eyes. Redness. Profuse watering of the eyes.

Route of exposure
Ingestion Inhalation Skin and/or eye contact

Target organs
No specific target organs known.

Toxicological information on ingredients.

Trimethoxyvinylsilane

Acute toxicity - oral
Notes (oral LD₅₀)
LD₅₀ 7120-7236 mg/kg, Oral, Rat

Acute toxicity - dermal
Notes (dermal LD₅₀)
LD₅₀ 3259-3880 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation
Acute toxicity inhalation (LC₅₀ vapours mg/l)
16.8

Species
Rat

Notes (inhalation LC₅₀)
Harmful if inhaled.

ATE inhalation (vapours mg/l)
16.8

Skin corrosion/irritation
Animal data
Dose: 0.5ml, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

Serious eye damage/irritation
Dose: 0.1 mL, 24 hours, Rabbit Not irritating.

Skin sensitisation
## Glasroc X Sealant

### Skin sensitisation
- Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

### Germ cell mutagenicity
- Gene mutation: Negative.

### Genotoxicity - In vitro
- Chromosome aberration: Negative.

### Reproductive toxicity
- Screening - NOAEL 250 mg/kg/day, Oral, Rat P
- Maternal toxicity: - NOAEL: 25 ppm, Inhalation, Rat

### Specific target organ toxicity - repeated exposure
- STOT - repeated exposure NOAEL 62.5 mg/kg/day, Oral, Rat

### Acute toxicity - oral
- Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

### Acute toxicity - inhalation
- Notes (inhalation LC₅₀) LC₅₀ 18180 mg/m³, Inhalation, Rat

### Skin corrosion/irritation
- Irritating to skin.

### Serious eye damage/irritation
- Causes serious eye damage.

### Skin sensitisation
- Not sensitising.

### Germ cell mutagenicity
- Gene mutation: Negative.

### Reproductive toxicity - development
- Maternal toxicity: - NOAEC: 2510 mg/m³, Inhalation, Rabbit Weight of evidence.

### Specific target organ toxicity - single exposure
- STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

### Specific target organ toxicity - repeated exposure
- STOT - repeated exposure NOAEC 3030 mg/m³, Inhalation, Rat Weight of evidence. Read-across data.

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**SECTION 12: Ecological Information**

### Ecotoxicity
- Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Acute aquatic toxicity**
- Summary Based on available data the classification criteria are not met.
Glasroc X Sealant

Chronic aquatic toxicity

Summary

Based on available data the classification criteria are not met.

Ecological information on ingredients.

Trimethoxyvinylsilane

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - fish</td>
<td>LC₅₀, 96 hours: 191 mg/l, Oncorhynchus mykiss (Rainbow trout)</td>
</tr>
<tr>
<td>Acute toxicity - aquatic invertebrates</td>
<td>EC₅₀, 48 hours: 168.7 mg/l, Daphnia magna</td>
</tr>
<tr>
<td>Acute toxicity - aquatic plants</td>
<td>EC₅₀, 72 hours: &gt;89 mg/l, Pseudokirchneriella subcapitata</td>
</tr>
<tr>
<td>Acute toxicity - microorganisms</td>
<td>EC₅₀, 3 hours: &gt;100 mg/l, Activated sludge</td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity

| Chronic toxicity - aquatic invertebrates | NOEC, 21 days: 28.1 mg/l, Daphnia magna |

Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - fish</td>
<td>LC₅₀, 96 hours: 1460 mg/l, Pimephales promelas (Fat-head Minnow)</td>
</tr>
<tr>
<td>Weight of evidence.</td>
<td>Read-across data.</td>
</tr>
<tr>
<td>Acute toxicity - aquatic invertebrates</td>
<td>EC₅₀, 48 hours: &gt;29 mg/l, Daphnia magna</td>
</tr>
<tr>
<td>Acute toxicity - aquatic plants</td>
<td>EC₅₀, 72 hours: &gt;4 mg/l, Pseudokirchneriella subcapitata</td>
</tr>
</tbody>
</table>

Chronic aquatic toxicity

| Chronic toxicity - aquatic invertebrates | EC₅₀, 24 hours: 1250 mg/l, Daphnia magna |
| NOEC, 21 days: 4 mg/l, Daphnia magna | Weight of evidence. |
| Read-across data. |          |

12.2. Persistence and degradability

Persistence and degradability

The degradability of the product is not known.

Ecological information on ingredients.

Trimethoxyvinylsilane

<table>
<thead>
<tr>
<th>Biodegradation</th>
<th>Water - Degradation 51%: 28 days</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not readily biodegradable.</td>
</tr>
</tbody>
</table>

Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium

| Stability (hydrolysis) | pH4, pH7, pH9 - Half-life : ≤ 10 minutes @ 25°C |

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.
Glasroc X Sealant

Partition coefficient  Not available.

Ecological information on ingredients.

**Trimethoxyvinylsilane**

- **Bioaccumulative potential**: Bioaccumulation is unlikely.
- **Partition coefficient**: log Pow: 1.1 Estimated value.

**Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium**

- **Bioaccumulative potential**: No data available on bioaccumulation.

12.4. Mobility in soil

**Mobility**: The product is insoluble in water.

Ecological information on ingredients.

**Trimethoxyvinylsilane**

- **Mobility**: Soluble in water.

**Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium**

- **Mobility**: No data available.

12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**: This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

**Trimethoxyvinylsilane**

- **Results of PBT and vPvB assessment**: This substance is not classified as PBT or vPvB according to current EU criteria.

**Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium**

- **Results of PBT and vPvB assessment**: This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

**Other adverse effects**: None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

**General information**: The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should be handled in accordance with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Glasroc X Sealant

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information
Glasroc X Sealant

Abbreviations and acronyms used in the safety data sheet

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- CAS: Chemical Abstracts Service.
- ATE: Acute Toxicity Estimate.
- LC₅₀: Lethal Concentration to 50% of a test population.
- LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
- EC₅₀: 50% of maximal Effective Concentration.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms

- Eye Irrit. = Eye irritation

Classification procedures according to Regulation (EC) 1272/2008

- Eye Irrit. 2 - H319: Calculation method.

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

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Revision comments

This is the first issue.

Revision date

08/01/2020

Revision

01

SDS number

9115

Hazard statements in full

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H370 Causes damage to organs.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.