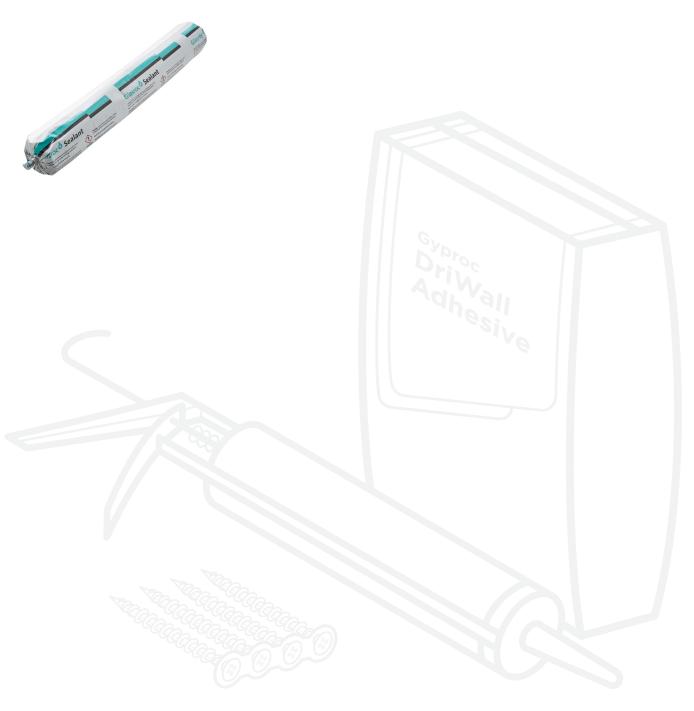


Safety Data Sheet

Glasroc® X Sealant





SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 and The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720

Issuing Date 17-Feb-2022 Revision Date 10-Mar-2022 Revision Number 2

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

1.1. Product identifier

Product Name Glasroc X Sealant

Synonyms None

Pure substance/mixture Mixture

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

Recommended use 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

For further information, please contact

E-mail address 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

Serious eye damage/eye irritation Category 2 - (H319)

2.2. Label elements



Signal word

(M)SDS Number UL-BG-005

Warning

Hazard statements

H319 - Causes serious eye irritation.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist

Precautionary statements

P102 - Keep out of reach of children.

P264 - Wash 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.

P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

Combustible liquid.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤10 µm] 13463-67-7	>= 5 - < 10	236-675-5	-	Carc. 2 (H351i)	-		-
Bis(ethyl acetoacetato-O1',O3) bis(2-methylpropan-1 -olato)titanium 83877-91-2	1 - <2.5	281-161-6	-	-	-	-	-
Methanol 67-56-1	< 1	200-659-6	-	Flam. Liq. 2 (H225) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370)	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK 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.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical attention

immediately if symptoms occur.

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. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

Skin contact Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. If vomiting occurs spontaneously,

keep head below hips to prevent aspiration. Never give anything by mouth to an

unconscious person.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing.

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

Symptoms Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause

redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness

and irritation.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. Use

extinguishing agent suitable for type of surrounding fire.

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Keep product and empty container away from heat and sources of ignition. In the event of

fire, cool tanks with water spray.

Hazardous combustion products Carbon oxides. Carbon monoxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Keep people away from and upwind of spill/leak. Do not handle until all safety precautions

have been read and understood. Wear personal protective clothing (see section 8). Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material. Avoid contact with skin, eyes or clothing.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Local authorities should be advised if significant spillages

cannot be contained. Refer to protective measures listed in Sections 7 and 8. Prevent

further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dyke

far ahead of liquid spill for later disposal.

Methods for cleaning up Clear up spills immediately and dispose of waste safely. Small spill: Wipe up with absorbent

material (eg. cloth, fleece). Large spill: Wash thoroughly after handling. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.

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 Handle in accordance with good industrial hygiene and safety practice. Wear personal

protective equipment. Read carefully and follow all instructions. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs. Keep container closed when not in use. Avoid breathing vapour or mist. Avoid contact with skin, eyes or clothing. Do not

eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store away from incompatible materials. Keep containers tightly closed in a dry, cool and

well-ventilated place.

7.3. Specific end use(s)

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

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
Titanium dioxide [in powder form containing 1 % or more of particles	TWA: 10 mg/m ³

with aerodynamic diameter ≤10 μm] 13463-67-7	TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³
Methanol 67-56-1	TWA: 200 ppm TWA: 266 mg/m³ STEL: 250 ppm STEL: 333 mg/m³ Sk*

Biological occupational exposure

limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

8.2. Exposure controls

Engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Provide extract ventilation at the points where emissions occur. Ensure the ventilation system is regularly maintained and tested.

Personal protective equipment

Eye/face protection

Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or goggles).

Hand protection

Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. 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. Wear suitable gloves.

	Gloves		
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Butyl rubber Nitrile rubber	>0.1 mm	> 30 minutes
Long term (repeated)	Viton™	0.4 mm	> 30 minutes

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. (EN 689 - Methods for determining inhalation exposure). In case of insufficient ventilation, wear suitable respiratory equipment. 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. Air purifying respirator equipped with organic gas/vapor cartridge (type A or AX). A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm.

Organic gases and vapours filter conforming to EN 14387.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Paste
Physical state Liquid
Colour Varies
Odour Characteristic

Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing pointNo data availableInitial boiling point and boilingNo data available

range

Flammability No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 93 °C No data available
Autoignition temperature No data available
Decomposition temperature No data available
pH No data available
pH (as aqueous solution) No data available

Kinematic viscosity > 20.5 mm²/s @ 40°C No data available

Dynamic viscosity No data available

Water solubility Insoluble in water No data available

Solubility(ies)No data availablePartition coefficientNo data availableVapour pressure0.01 hPaNo data availableRelative density1.35 g/cm³No data availableBulk densityNo data available

Bulk densityNo data availableLiquid DensityNo data availableVapour densityNo data available

Particle characteristics

Particle SizeNo data availableParticle Size DistributionNo data available

9.2. Other information

0.21 %

VOC No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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 None known based on information supplied.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Methanol.

SECTION 11: Toxicological information

11.1. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eye contact Causes serious eye irritation. (based on components). May cause redness, itching, and

pain.

Skin contact May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin

irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes. Prolonged contact may cause redness and

irritation.

Acute toxicity

Numerical measures of toxicity

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

 ATEmix (oral)
 9,182.70 mg/kg

 ATEmix (dermal)
 30,303.00 mg/kg

 ATEmix (inhalation-dust/mist)
 25.503 mg/l

Component Information

Component initiation			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium dioxide [in powder	> 10000 mg/kg (Rat)	-	= 5.09 mg/L (Rat) 4 h
form containing 1 % or more of			-
particles with aerodynamic			
diameter ≤10 μm]			
Methanol	= 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation May cause skin irritation. Classification based on data available for ingredients. Causes

mild skin irritation.

Component Information			
Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium (83877-91-2)			
Effective dose	0.05 mL		
Exposure time	24 hours		
Results	Irritant		

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Component Information	
Bis(ethyl acetoacetato-O1',O3)bis(2-m	ethylpropan-1-olato)titanium (83877-91-2)
Effective dose	0.1 mL
Results	Eye Damage

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product contains titanium dioxide in a non-respirable form. Inhalation of titanium

dioxide is unlikely to occur from exposure to this product.

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

Chemical name	United Kingdom
Titanium dioxide [in powder form containing 1 % or more of particles	Carc. 2
with aerodynamic diameter ≤10 μm]	

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

Other adverse effects None known based on information supplied.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)ti tanium		LC50: =1460mg/L (96h, Pimephales promelas)	-	EC50: >29mg/L (48h, Daphnia magna)
Methanol	-	LC50: =28200mg/L (96h, Pimephales promelas) LC50: >100mg/L (96h, Pimephales promelas) LC50: 19500 - 20700mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 20mL/L (96h, Oncorhynchus mykiss) LC50: 13500 - 17600mg/L (96h,	-	-

	Lepomis macrochirus)	

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Methanol	-0.77

12.4. Mobility in soil

Mobility in soil No information available.

Mobility Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Titanium dioxide [in powder form containing 1 % or more of particles	The substance is not PBT / vPvB PBT assessment does
with aerodynamic diameter ≤10 μm]	not apply
Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium	The substance is not PBT / vPvB
Methanol	The substance is not PBT / vPvB PBT assessment does
	not apply Further information relevant for the PBT
	assessment is necessary

12.6. Endocrine disrupting properties

None known based on information supplied.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products

This material and its container must be disposed of in a safe way.

Contaminated packaging

Since empty containers retain product residue, follow label warnings even after container is emptied. Recover or recycle if possible.

SECTION 14: Transport information

IMDGNot regulated14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

No information available

RID Not regulated
14.1 UN number Not regulated
14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

ADR
14.1 UN number or ID number
14.2 UN proper shipping name
14.3 Transport hazard class(es)
14.4 Packing group
14.5 Environmental hazards
Not regulated
Not regulated
Not regulated
Not regulated
Not regulated
Not applicable

14.6 Special Precautions for Users

Special Provisions None

IATANot regulated14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None Note: None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Methanol - 67-56-1	Use restricted. See item 69.	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methanol - 67-56-1	500	5000

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report Not applicable

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

H225 - Highly flammable liquid and vapour

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H331 - Toxic if inhaled

H351i - Suspected of causing cancer if inhaled

H370 - Causes damage to organs

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

+ Sensitisers

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

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

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Issuing Date 17-Feb-2022

Revision Date 10-Mar-2022

Revision Note Initial Release

This material safety data sheet complies with the requirements of UK REACH

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

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



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