

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Polyroof**
 Product Use: Sealant
 Restriction of use: Refer to Section 15

New Zealand Supplier: **Glasscorp Limited**
 Address: **124 Bush Road
 Albany
 Auckland
 New Zealand**

Telephone: 09 415 6338
 Fax Number: 09 415 6339
 Website: www.glasscorp.co.nz

Emergency Telephone: 09 415 6338 or 0800 764 766 (National Poison Line)

Glasscorp date of issue: 15 October 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Surface Coatings and Colourants (Toxic [6.7]) – HSR0002679

Label pictograms:



Irritant



Chronic



Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.6A	H340	May cause genetic defects.	Muta. 1A
6.7A	H350	May cause cancer.	Carc. 1A
6.8A	H360	May damage fertility or the unborn child.	Repr. 1A
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

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9.3C	H433	Harmful to terrestrial vertebrates.	-
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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P362	Take off contaminated clothing and wash before re-use.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Triple rinse and dispose of according to local regulations

Section 3. Composition / Information on Ingredients

Hazardous Ingredients	Cas Number	Weight
Asphalt	8052-42-4	20-<50
Benzene, ethyl-	100-41-4	1-<5
Carbon Black	1333-86-4	0.1-<1
Distillates, petroleum, heavy thermal cracked	64741-81-7	1-<5
Ethene, homopolymer	9002-88-4	0.1-<1
Fluoranthene	206-44-0	0.01-<1
Pitch, coal tar, high temperature	65996-93-2	1-<5
Residues, petroleum, thermal cracked	64741-80-6	1-<5
Silica	7631-86-9	5-<10
Toluene	108-88-3	0.1-<1
Xylene	1330-20-7	10-<25
Ingredients determined to be Non-Hazardous		To bal

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Wash contaminated clothes before reuse. If swelling, redness, blistering or irritation occurs seek medical assistance.
If Swallowed	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a facemask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms :	
Inhalation:	Not applicable.
Swallowed:	May be harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Inhaled:	Material may be an irritant to mucous membranes and respiratory tract.
Eyes:	Causes serious eye irritation. Exposure to the dust may cause discomfort due to particulate nature.
Skin:	Causes skin irritation. May cause an allergic skin reaction.
Chronic:	May damage fertility or the unborn child. May cause genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Notes to physician: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	No flammable or combustible material.
Hazards from decomposition products	No hazardous decomposition products are known.
Suitable Extinguishing media	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
Precautions for firefighters and special protective clothing	Wear full protective gear. Not combustible, however following evaporation of aqueous component residual material can burn if ignited.
HAZCHEM CODE	2Z

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Section 6. Accidental Release Measures

Equipment and emergency procedures

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. For personal protection, see section 8 of the SDS. Clear area of all unprotected personnel. Slippery when spilt.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. Refer to Section 13 for disposal.

Section 7. Handling and Storage

Precautions for safe handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.

Precautions for safe storage:

- Store in a cool, dry, well-ventilated place and out of direct sunlight.
- Keep out of reach of children.
- Store away from foodstuffs.
- Store away from sources of heat and/or ignition.
- Store locked up.
- Keep container standing upright.
- Keep containers closed when not in use - check regularly for spills.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	mg/m ³	STEL ppm	mg/m ³
Bitumen fumes	-	5	-	-
Carbon black	-	3	-	-
Coal tar pitch volatiles (as benzene solubles)	-	0.2	-	-

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Ethyl benzene	100	434	125	543
Fumed silica (respirable dust)	-	2	-	-
Silica Amorphous - Fumed silica (respirable dust)	-	2	-	-
Toluene	50	191	150	574
Xylene	80	350	150	655

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls:

Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment



Eyes	Wear safety glasses with side shields (or goggles). Wear tight-fitting goggles or face shield.
Hands and Skin	Wear nitrile rubber gloves that are suitable for intermittent contact. Wear overalls and safety shoes.
Respiratory	Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
General	Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 Physical and Chemical Properties

Appearance	Black Paste
Odour	Slight odour
Odour Threshold	Not available
pH	Not available
Boiling Point	371°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Density	Not available
Relative Density	1.02

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(air=1)	
Specific Gravity	Not available
Soluble in water	Practically Insoluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity Dynamic	Not available
Percent Volatile	Not available
VOC/Weight	Not available
Evaporation Rate	Slower than n-Butyl Acetate (n-Butyl acetate=1)

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Elevated temperatures and sources of ignition.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	Oxides of carbon and nitrogen, smoke and other toxic fumes.

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. Mixture calculation = LD50 = 4825mg/kg
Dermal	Not applicable. = 6360mg/kg
Inhalation	Not triggered however material may be an irritant to mucous membranes and respiratory tract. = LD50 = 41.39 mg/L (vapours)
Eye	Causes severe eye irritant. Exposure to the dust may cause discomfort due to particulate nature.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	May cause cancer.
Reproductive Toxicity	May damage fertility or the unborn child.
Germ Cell Mutagenicity	May cause genetic defects.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Chemical	Oral LD50	Dermal LD50	Inhalation LC50
Benzene, ethyl- (100-41-4)	3500mg/kg (Rat)	-	9.6mg/l (vapour)
Benzene, methyl- (108-88-3)	636 mg/kg (Rat)	-	12.5-28.8mg/l (Vapour)

Section 12. Ecotoxicological Information

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HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects
9.3C = Harmful to terrestrial vertebrates.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recoverable for use if it has not come in contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Carcinogenic, Ecotoxic" and that the label also has the Chronic, Ecotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3077
Class-primary 9
Pacing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

Air Transport

UN No: 3077
Class-primary 9
Pacing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

Marine Transport

UN No: 3077
Class-primary 9
Pacing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

Limited Quantities Statement:

If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

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EPA Approval Code: Surface Coatings and Colourants (Toxic [6.7]) – HSR0002679
 HSNO Classification: 6.1E(oral), 6.3A, 6.4A, 6.5B, 6.6A, 6.7A, 6.8A, 6.9B, 9.1B, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L(9.1B)
Emergency Response Plan (Schedule 5)	1000L(9.1B)
Secondary Containment (Schedule 5)	1000L(9.1B)
Tracking (Schedule 26)	Not required
Restriction of use	Only for intended use.
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace.
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides

Section 16 Other Information

Glossary

AWC	Aggregate water capacity.
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been issued by Glasscorp Limited and serves as the product Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Glasscorp Limited by the Manufacturer and is believed to represent the current state of

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knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Glasscorp Limited have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Glasscorp Limited accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made. Please contact Glasscorp Limited, if further information is required.

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