SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product:	**Glasscorp Small Joint Sealer Black**
Product Code:	FB781-BL/ FB781A-BL
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:	16 April 2020

Section 2. Hazards Identification

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

EPA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

Pictograms:

Flammable Irritant Chronic Ecotoxic

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Flam. Liq. 2
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9A	H372	Causes damage to organs through prolonged or repeated exposure.	STOT RE 1
6.9N	H336	May cause drowsiness or dizziness.	STOT SE 3
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2

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.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe fumes, mist, vapours and spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P370 + P378	In case of fire: Use CO2, dry chemical, or foam for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

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
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene	64742-82-1	20- <40
Toluene	108-88-3	10 - <20
Benzene, 1,2,4-trimethyl-	95-63-6	1 - <3
Zinc, bis(dibutylcarbamodithioato-S,S)-, (T-4)-	136-23-2	0.1- <1
2-Benzotriazolyl-4-methylphenol	2440-22-4	0.1- <1
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	0.1- <1

Non hazardous	Proprietary	To bal

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	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. Call a physician immediately.
If on Skin	Take off contaminated clothing and wash before re-use. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/ attention.
If Swallowed	DO NOT induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Seek medical attention if needed.
If Inhaled	Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

Most important symptoms and effects, both acute and delayed

Symptoms:

Swallowed:	May be fatal if swallowed and enters airways.
Inhaled:	May cause drowsiness or dizziness.
Eyes:	Not applicable.
Skin:	Causes skin irritation. May cause an allergic skin reaction.
Chronic:	Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Highly Flammable Liquid.
Hazards from combustion products	Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).
Suitable Extinguishing media	Carbon dioxide (CO2). Extinguishing powder. Water spray or fog. Alcohol resistant foam.
Precautions for firefighters and special protective clothing	In case of fire: Wear self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses
HAZCHEM CODE	**3YE**

Section 6. Accidental Release Measures

Equipment and emergency procedures

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid breathing vapors or mists.

Environmental precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Methods and materials for containment and cleaning up
Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up with sand or other non-combustible absorbent material and place in container for disposal according to local regulations (see Section 13).

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.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not eat, drink or smoke when using this product.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe fumes, mist, vapours and spray.
- Wash hands thoroughly after handling.
- Avoid contact with skin, eyes or clothing.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- 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 locked up.
- Keep out of reach of children.
- Store away from oxidising substances, strong acids and strong bases.
- Keep away from food, drink and animal feeding stuffs.
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Protect from sunlight.
- Store at temperatures not exceeding 30 °C.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³
Toluene (skin) (Toluol) [108-88-3]	50	188		

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 2019 11TH EDITION

Engineering Controls:
Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. in the case of spray application.

Personal Protection Equipment

Eyes	Wear safety glasses with side shields (or goggles).
Hands and Skin	Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers. Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.
Respiratory	No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
General	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.

Section 9 Physical and Chemical Properties

Appearance	Black Paste
Odour	Aromatic Solvent
Odour Threshold	Not available
pH	Not available
Boiling Point	Approx. 110°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	Approx 4 °C
Flammability	Not available
Upper and Lower Explosive Limits	1.1 to 6.0
Vapour Pressure	Not available
Density	0.94 g/cm
Relative Density	Not applicable
Specific Gravity	Not applicable
Soluble in water	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Solid content (%)	Approx. 59
VOC	>300 g/L

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions:	Product reacts / cures under exposure of light. Keep container tightly closed in a dry and well-ventilated place.
Conditions to Avoid	UV-radiation/sunlight. Keep away from heat, sparks and flames. Hazardous polymerization may occur.
Incompatible Materials	Exothermic reaction with. radical initiators. organic peroxide. Bases. Finely powdered metals. Hazardous polymerization may occur.
Hazardous Decomposition Products	Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Carbon monoxide. Carbon dioxide (CO_2). Nitrogen oxides (NO_x).

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	May cause drowsiness or dizziness.
Eye	Not applicable.
Skin	Causes skin irritation. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
25.81404 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
25.81404 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
24.34555 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene 64742-82-	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-
Toluene 108-	= 5580 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	> 20 mg/L (Rat) 4 h
Benzene, 1,2,4-trimethyl- 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Zinc, bis(dibutylcarbamodithioato-S,S)-, (T-4)-	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
2-Benzotriazolyl-4-methylphenol	LD50 >10000 mg/kg (Rat)(OECD 423)	LC50 >2000 mg/kg (Rat) (OECD 402)	> 1420 mg/m³ (Rat) 4 h
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-	LD50 (rat)> 2000 mg/kg OECD 423	LD50 (rat) > 3 170 mg/kg OECD 402	= 500 mg/m³ (Rat) 4 h

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

Naphtha, petroleum, hydrodesulfurized heavy <0.1% w/w Benzene 64742-82-1	-	96 Hr 4.5-23 mg/L (Pimephales promelas) OECD guideline 203	LC50 96 h = 2.6 mg/L (Chaetogammarus marinus) 4.5mg/L (Daphnia magna) OECD guideline 202
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 48 h 5.46 - 9.83 mg/L (Daphnia magna Static) EC50 48 h = 11.5 mg/L (Daphnia magna)
Benzene, 1,2,4-trimethyl- 95-63-6	-	LC50 96 h 7.19 - 8.28 mg/L (Pimephales promelas flow-through)	EC50 48 h = 6.14 mg/L (Daphnia magna)
Zinc, bis(dibutylcarbamodithioato-S,S)-, (T-4)-	-	LC50 96 h = 880 mg/L (Lepomis macrochirus) LC50 96 h = 520 mg/L (Oncorhynchus mykiss)	EC50 48 h = 0.74 mg/L (Daphnia magna)

136-23-2			
2-Benzotriazolyl-4-methylphenol 2440-22-4	-	LC50 (96h) >0.17 mg/L (Oncorhynchus mykiss) Semi-static (OECD 203)	EC50 (24h) >1000 mg/L (Daphnia magna) Static (OECD 202)
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9	EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata)	LC50 (96h) = 5.29 mg/l (Oryzias latipes)	LC50 48Hr 8.58 mg/l (Daphnia magna)

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

Persistence and degradability (components)

Component Information			
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)			
Method	**Exposure time**	**Value**	**Results**
OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment -- A: Activated Sludge Units; B: Biofilms	28 days	Total organic carbon (TOC)	24 % Moderate

Bioaccumulative potential (components)

Chemical name		Partition coefficient	
Toluene 108-88-3		2.7	
Benzene, 1,2,4-trimethyl- 95-63-6		3.63	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9		0.35	

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 recovered 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 –Flammable, Chronic, Ecotoxic" and that the label also has the Flammable, Chronic and 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, Rail, Sea and Air Transport

UN No	1133

Class - Primary	3
Packing Group	II
Proper Shipping Name	Adhesives containing flammable liquid (Zinc, bis(dibutylcarbamodithioato-S,S) -, (T-4)-
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5L/kg, 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

EPA Approval Code: Surface Coatings and Colourants (Flammable) – HSR002662

HSNO Classification: 3.1B, 6.1E(asp), 6.3A, 6.5B, 6.8B, 6.9A, 6.9N, 9.1B

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	100L(>5L), 250L(<5L), 50L open
Signage Trigger Quantities (Schedule 3)	250L (3.1B)
Emergency Response Plan (Schedule 5)	1000L(3.1B)
Secondary Containment (Schedule 5)	1000L(3.1B)
Tracking (Schedule 26)	Not required
Fire Extinguishers	250L = 2 x required
Restriction of use	Only for intended use.

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 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.

Issue Date: 16 April 2020 Review Date: 16 April 2025