SAFETY DATA SHEET – RAPP-IT PIPE REPAIR BANDAGE

1. IDENTIFICATION

GHS Product Identifier	RAPP-IT PIPE REPAIR BANDAGE
Company Name	MARINE & INDUSTRIAL MARKETING (ABN 32 051 014 049)
Address	12/14 Argyle Street, Albion, Queensland 4010 Australia
Telephone/Fax Number	Tel: +61 7 3262 3755 Fax: +61 7 3262 3255
Emergency Phone Number	Poisons Centre (13 11 26) 24hrs
Recommended use of the chemical and restrictions on use	Used for temporary emergency pipe repair for all pipes.

2. HAZARD IDENTIFICATION

GHS classification of the substance or mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Acute Toxicity - Inhalation: Category 4 Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2 Sensitization - Respiratory: Category 1 Sensitization - Skin: Category 1 Carcinogenicity: Category 2 STOT Single Exposure: Category 3 (respiratory tract irritation) STOT Repeated Exposure: Category 2
Signal Word(s)	DANGER
Hazard Statement(s)	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
Pictogram(s)	Health hazard, Exclamation mark 
Precautionary Statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P284 [In case of inadequate ventilation] wear respiratory protection.
Precautionary Statement – Response	P314 Get medical advice/attention if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. 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.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Polyurethane prepolymer	Proprietary	40-<70 %
	Fiberglass	65997-17-3	30-60 %
	Diphenylmethane 4,4'- diisocyanate	101-68-8	1-<10 %
	Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	1-<3 %
	White mineral oil, petroleum	8042-47-5	1-<3 %
	Silicon dioxide, amorphous	68611-44-9	0.1-<1 %
	Ingredients determined not to be hazardous		Balance

Other Information: Polyurethane prepolymer contains Isocyanate-terminated and Polyol.
DMSO extractible compounds according to IP 346: < 3%.
Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eyewash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.
Unsuitable Extinguishing Media	Avoid use of water jet for extinguishing.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific Hazards arising from the Chemical	Combustible solid. This product will burn if exposed to fire.
Decomposition Temp.	Not available.
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust. Wear respiratory protection and full protective clothing to minimise exposure. Sweep up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Avoid inhalation of dust generated when removing the product from pipes, and skin or eye contact. Use disposable gloves. Product will adhere on contact with skin or clothing, if product adheres to skin remove as soon as possible with acetone or alcohol. Prevent the build up of dust in the work atmosphere. Establish good housekeeping practices. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood. Do not use warm or hot water. Bandage may generate heat during application.
Conditions for Safe Storage including any Incompatibilities	Store in a well ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Take precautions against static electricity discharges. Use proper grounding procedures. Store away from incompatible materials such as materials that support combustion (oxidising materials). Store in suitable, labelled containers. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations. For information on the handling of Combustible dusts and grounding procedure reference should be made to Australian Standard AS/NZS 4745 - 'Code of Practice for Handling Combustible Dusts'.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limit Values	Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
	Continuous glass filament	Safe Work Australia	TWA	2	mg/m3	(inhalable dust) Synthetic mineral fibres
	Diphenylmethane 4,4'-diisocyanate	Safe Work Australia	TWA	0.02	mg/m3	Sen, Isocyanates, all (as NCO)
	Diphenylmethane 4,4'-diisocyanate	Safe Work Australia	STEL	0.07	mg/m3	Sen, Isocyanates, all (as NCO)

Biological Limit Values	No biological limits allocated.
Control Banding	Not available
Engineering Controls	None required when used as intended. This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. A flameproof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.
Respiratory Protection	None required when used as intended. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye and Face Protection	None required when used as intended. Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as disposable gloves or nitrile disposable gloves included in the packaging. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Thermal Hazards	No further relevant information available.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.
Other Information	No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. Oil mist, refined mineral TWA: 5 mg/m³ TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. Source: Safe Work Australia

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Knitted fabric coated with sticky resin
Colour	White/off white
Odour	A unique, weak odour
Freezing Point	Not available
Boiling Point	Not available
Decomposition Temperature	Not available
Solubility in Water	Reacts with water
Specific Gravity	1.12 (25°C)
pH	Not available
Vapour Pressure	Not available
Relative Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity
Partition Coefficient: n-octanol/water (log value)	Not available

Flash Point	> 200 °C
Flammability	Not flammable
Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available
Explosion Properties	Not available
Oxidising Properties	Not available
Kinematic Viscosity	Not available
Dynamic Viscosity	Not available

10. STABILITY AND REACTIVITY

Reactivity	Curing reaction occurs with water. Chemical resistance test results for the cured bandage for exposure for 1 month: 1. Exposure to ethanol, diesel, gasoline, pure water, toluene. No change in bandage. 2. Exposure to acetone, mineral spirits, xylene, MEK, sulfuric acid 30%. Some colour change. 3. Exposure to caustic soda 20% and caustic soda 50% - no colour change, slightly reduced hardness. Bandage maintained integrity. 4. Exposure to 50% nitric acid. Severe discoloration, slightly reduced hardness. Bandage maintained integrity. 5. Exposure to hydrochloric acid 30%. Severe discoloration, no softening of bandage.
Chemical Stability	Stable under normal conditions of storage and handling.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Avoid contact with incompatible materials and condition. Avoid: accumulation of electrostatic charges, heating, flames and hot surfaces. Avoid moisture or water before use. This will cause unwanted hardening.
Incompatible Materials	Uncured bandage: Acids and bases, amines, alcohols and strong oxidizing agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material.
Ingestion	Ingestion unlikely due to form of product.
Inhalation	Harmful if inhaled. May cause respiratory irritation. Inhalation of product dust can cause irritation of the nose, throat and respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.
Eye	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Respiratory Sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Suspected of causing cancer. Classified as a suspected human carcinogen. Glass filament, continuous, diphenylmethane 4,4'- diisocyanate, highly refined mineral oil and amorphous silica are listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-Single Exposure	May cause respiratory irritation.
STOT-Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data available for this material.
Persistence and Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Other Adverse Effects	Not available
Environmental Protection	Prevent this material entering waterways, drains and sewers.
Hazardous to the Ozone Layer	This product is not expected to deplete the ozone layer.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

14. TRANSPORT INFORMATION

Transport Information	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
ADG UN Number	None Allocated
ADG Proper Shipping Name	None Allocated
ADG Transport Hazard Class	None Allocated
ADG Packing Group	None Allocated
Special Precautions for User	Not available
IATA UN Number	None Allocated
IATA Proper Shipping Name	Not dangerous for conveyance under IATA code
IATA Transport Hazard Class	None Allocated
IATA Packing Group	None Allocated
IMDG UN Number	None Allocated
IMDG Proper Shipping Name	Not dangerous for conveyance under IMO/IMDG code
IMDG Transport Hazard Class	None Allocated
IMDG Packing Group	None Allocated
IMDG Marine pollutant	No
Transport in Bulk	Not available

15. REGULATORY INFORMATION

Regulatory information	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	S6
Montreal Protocol	Not Listed
Stockholm Convention	Not Listed
Rotterdam Convention	Not Listed
International Convention for the Prevention of Pollution from Ships (MARPOL)	Not available
Agricultural and Veterinary Chemicals Act 1994	Not applicable
Basel Convention	Not available

16. ANY OTHER RELEVANT INFORMATION

Date of Preparation	SDS Reviewed: May 2021, Supersedes: August 2020
Literature References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Code of Practice for Supply Diversion into Illicit Drug Manufacture. National Code of Practice for Chemicals of Security Concern. Agricultural Compounds and Veterinary Chemicals Act. International Agency for Research on Cancer (IARC) Monographs. Montreal Protocol on Substances that Deplete the Ozone Layer. Stockholm Convention on Persistent Organic Pollutants (POPs). Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal. International Air Transport Association (IATA) Dangerous Goods Regulations. International Maritime Dangerous Goods (IMDG) Code. Workplace exposure standards for airborne contaminants. Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of Classification and Labelling of Chemicals. Code of Practice: Managing Noise and Preventing Hearing Loss at Work.
Contact Person/Point	Tel: +61 7 3262 3755

...END OF SDS...

SAFETY DATA SHEET – RAPP-IT STEEL PUTTY 90MM

1. IDENTIFICATION

GHS Product Identifier	RAPP-IT STEEL PUTTY 90MM
Company Name	MARINE & INDUSTRIAL MARKETING (ABN32051 014 049)
Address	12/14 Argyle Street, Albion, Queensland 4010 Australia
Telephone/Fax Number	Tel: +61 7 3262 3755 Fax: +61 7 3262 3255
Emergency Phone Number	Poisons Centre (13 11 26) 24hrs
Recommended use of the chemical and restrictions on use	Adhesives, Sealants.

2. HAZARD IDENTIFICATION

GHS classification of the substance or mixture	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2 Sensitization - Skin: Category 1
Signal Word(s)	WARNING
Hazard Statement(s)	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Pictogram(s)	Exclamation mark 
Precautionary Statement – Prevention	P261 Avoid breathing dust. P264 Wash hands and contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. 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.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.
Other Information	No exposure to free respirable silica is anticipated during normal use of this product. During cutting or demolition operations crystalline silica may become available for breathing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	**Name**	**CAS**	**Proportion**
	Talc	14807-96-6	30-60 %
	Glass, oxide, chemicals	65997-17-3	10-30 %
	Epichlorohydrin, bisphenol A resin	25068-38-6	10-<25 %
	Quartz [Silica Crystalline]	14808-60-7	0.1-1 %
	Ingredients determined not to be hazardous		Balance

Other Information	Fibreglass type: Continuous filament glass fibers (E-type). Quartz [Silica Crystalline]: Non-respirable This product contains non-respirable crystalline silica and talc, which are embedded in an impervious polymer matrix. No exposure to free respirable silica is anticipated during normal use of this product.

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
First Aid Facilities	Eyewash, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use appropriate fire extinguisher for surrounding environment.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of sulphur, halogenated compounds, metal oxides, carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific Hazards arising from the Chemical	This product is non combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.
Hazchem Code	Not regulated
Decomposition Temp.	>150°C
Precautions in connection with Fire	Isolate the area. No action shall be taken involving any personal risk or without suitable training. Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	No action shall be taken involving any personal risk or without suitable training. Increase ventilation. Evacuate all unprotected personnel. Do not touch or walk through spilled material. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid exposure to spillage by sweeping up material avoiding dust generation - dampen spilled material with water if suitable to avoid airborne dust, OR where possible use dustless methods such as vacuum to collect the material; then transfer material in to suitable labelled containers for subsequent recycling or disposal. Keep containers tightly closed. Wash surfaces well with soap and water. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Recommended Materials - Filter type: High-efficiency particulate air (HEPA) filter

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid inhalation of dust, and skin or eye contact. Do not ingest. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Remove contaminated clothing and protective equipment before entering eating areas. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Empty containers may contain hazardous residues. Do not re-use container.
Conditions for Safe Storage including any Incompatibilities	Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Keep only in original container. Do not store in unlabelled containers. Keep containers tightly closed. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. In order to prevent spillages, always ensure that these containers are stored and transported in upright position. Ensure that storage conditions comply with applicable local and national regulations. Use appropriate containment (of product and fire fighting water) to avoid environmental contamination.
Storage Temperatures	Store below 35°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limit Values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Refractory Ceramic Fibres (RCF) (h), Special Purpose Glass Fibres(i) and High Biopersistence MMVF(l)	Safe Work Australia	TWA	2	mg/m3	(inhalable dust), 0.5 f/ml (respirable)
Glass wool, rock (stone) wool, slag wool and continuous glass filament](i)(k) and Low Biopersistence MMVF(m)	Safe Work Australia	TWA	2	mg/m3	(inhalable dust)
Quartz [Silica Crystalline]	Safe Work Australia	TWA	0.1	mg/m3	(respirable dust)
Talc	Safe Work Australia	TWA	2.5	mg/m3	(Respirable dust) (Talc, containing no asbestos fibres).

Biological Limit Values	No biological limits allocated.
Appropriate Engineering Controls	Use with good general ventilation. However, if dust formation occurs after completion of application and/or during mechanical machining for removal or refinishing (for example, sawing, drilling, grinding etc.), occupational regulations have to be considered. This substance is hazardous and should be used with a local exhaust ventilation system, drawing dust/vapour away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/vapour filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Grey, Black [Dark] solid
Colour	Grey, Black [Dark]
Odour	Sulfurous. Pungent. [Strong]
Decomposition Temperature	>150°C
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Insoluble in the following materials: cold water and hot water.
Solubility in Organic Solvents	Partially soluble in the following materials: methanol, diethyl ether, n-octanol and acetone.
Specific Gravity	2.25
pH	Not applicable
Vapor Pressure	Not available
Vapor Density (Air=1)	Not available
Evaporation Rate	Not applicable
Odour Threshold	Not available
Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity
Partition Coefficient: n-octanol/water	Not available
Flash Point	Not applicable Does not sustain combustion (Closed Cup)
Flammability	Not flammable
Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not applicable
Explosion Limit - Lower	Not available
Kinematic Viscosity	Not applicable
Dynamic Viscosity	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	Refer to Section 10: Possibility of hazardous reactions
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Not available
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including: oxides of sulphur, halogenated compounds, metal oxides, carbon monoxide and carbon dioxide.
Possibility of hazardous reactions	Reacts with incompatible materials. Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous Polymerization	Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Toxicity data for material given below.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Inhalation of dusts may irritate the respiratory system.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction. Epichlorohydrin, bisphenol A resin Result: Moderately irritating (rabbit, 500 µL/24h) Result: Severe skin irritation (rabbit, 2 mg/24h)
Eye	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness. Epichlorohydrin, bisphenol A resin Result: Mildly irritating (rabbit, 100 mg/24h)
Respiratory Sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard. This product contains crystalline silica. Crystalline Silica (respirable size <= 18 µm) has been classified by the International Agency for Research on Cancer (IARC) as Carcinogenic to Humans (Group 1). Talc not containing asbestos or asbestiform fibres is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC). Glass filament, continuous is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC). This product contains talc in a polymer matrix. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single Exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated Exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and Degradability	Not available
Mobility	Insoluble in water.
Bioaccumulative Potential	Product: Not available Epichlorohydrin, bisphenol A resin: Low bioaccumulation potential. Bioconcentration Factor (BCF): 31 logPow: 2.64-3.78
Other Adverse Effects	No known significant effects or critical hazards.
Environmental Protection	Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN Number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing Group	Not regulated
Hazchem Code	Not regulated
UN Number (Air Transport, ICAO)	Not regulated
IATA/ICAO Proper Shipping Name	Not regulated
IATA/ICAO Hazard Class	Not regulated
IATA/ICAO Packing Group	Not regulated
IMDG UN No	Not regulated
IMDG Proper Shipping Name	Not regulated
IMDG Hazard Class	Not regulated
IMDG Pack. Group	Not regulated
IMDG Marine pollutant	No
Transport in Bulk	Not available
Special Precautions for User	Closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

Regulatory information	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled
Australia (AICS)	All components of this product are listed on the Inventory or exempted.

16. OTHER INFORMATION

Date of preparation or last revision of SDS	SDS Reviewed: May 2019, Supersedes: July 2016
References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of Classification and Labelling of Chemicals.
Contact Person/Point	Tel: +61 7 3262 3755

...END OF SDS...