



## SAFETY DATA SHEET – RAPP-IT PIPE REPAIR BANDAGE

Infosafe No™ LPXZ9

Version No. 2.1

Issue Date: 06/02/2021



ISSUED by PIPE REPAIR INTERNATIONAL

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### 1. IDENTIFICATION

GHS Product Identifier	RAPP-IT PIPE REPAIR BANDAGE
Company Name	PIPE REPAIR INTERNATIONAL
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	INFOTRAC 24/7 Emergency response contact phone numbers 1-800-535-5053 (free call from USA and Canada) 1-352-323-3500 (outside USA and Canada) 01-800-681-1530 (Mexico - local charges apply)
Recommended use of the chemical and restrictions on use	Used for temporary emergency pipe repair for all pipes.
Manufacturer Information	MARINE & INDUSTRIAL MARKETING 12/14 Argyle Street, Albion, Queensland 4010 Australia

### 2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as dangerous Goods by the criteria of the Department of Transport (DOT), International Air Transport Association (IATA) and International Maritime Dangerous Goods Code (IMDG). 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)	Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Pictogram(s)	Health hazard, Exclamation mark  
Precautionary Statement – Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.
Precautionary Statement – Response	Get medical advice/attention if you feel unwell. IF exposed or concerned: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.
Precautionary Statement – Disposal	Dispose of contents/container to an approved waste disposal plant.
Other Information	HMIS rating: Health Hazards: 2* Flammability: 1 Physical hazard: 0 Personal Protective Equipment: X

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	EINECS	Proportion
	Polyurethane Prepolymer	Proprietary		40-<70 %
	Fiberglass	65997-17-3	266-046-0	30-60 %
	Diphenylmethane 4,4'- diisocyanate	101-68-8	202-966-0	1-<10 %
	Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	265-157-1	1-<3 %
	White mineral oil, petroleum	8042-47-5		1-<3 %
	Silicon dioxide, amorphous	68611-44-9	271-893-4	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%.			

## 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 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.

## 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 Temperature	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 vapors 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.
Other Information	NFPA rating: Health Hazards: 2 Flammability: 1 Instability: 0

## 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 vapor 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.
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## 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 (oxidizing 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limit Values	Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
	Continuous filament glass fibers	ACGIH	TWA	5	mg/m3	(inhalable particulate matter), 1 f/cc (respirable fibers), A4, URT irr
	Diphenylmethane 4,4'-diisocyanate	ACGIH	TWA	0.005	ppm	Resp sens
	Diphenylmethane 4,4'-diisocyanate	OSHA	TWA	0.02	ppm	ceiling limit
	Diphenylmethane 4,4'-diisocyanate	OSHA	TWA	0.2	mg/m3	ceiling limit
	Silicon dioxide, amorphous	OSHA	TWA	80	mg/m3	/% SiO2, 20 mppcf
Biological Limit Values	No biological limits allocated.					
Appropriate 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.					
Eye 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.					
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.					
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 the mixture. As with all chemicals, exposure should be kept to the lowest possible levels. Mineral oil, excluding metal working fluids (Pure, highly and severely refined) TWA: 5 mg/m <sup>3</sup> (Inhalable particulate matter) However, the recommended exposure standards for Particles (Insoluble or Poorly soluble) not otherwise specified, Inhalable Particles is: TWA: 10 mg/m <sup>3</sup> . However, the recommended exposure standards for Particles (Insoluble or Poorly soluble) not otherwise specified, Respirable Particles is: TWA: 3 mg/m <sup>3</sup> . Source: Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). Oil mist, mineral TWA: 5 mg/m <sup>3</sup> However, the recommended exposure standards for Inert or Nuisance Dust, Total Dust is: TWA: 50 mppcf, 15 mg/m <sup>3</sup> . However, the recommended exposure standards for Inert or Nuisance Dust, Respirable Fraction is: TWA: 15 mppcf, 5 mg/m <sup>3</sup> . Source: OSHA Table Z-3 (29 CFR 1910.1000) 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.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Knitted fabric coated with sticky resin.
Color	White/off white
Odor	A unique, weak odor.
Decomposition Temperature	Not available
Freezing Point	Not available
Boiling Point	Not available
Solubility in Water	Reacts with water.
Specific Gravity	1.12 (77 °F) (25 °C)
pH	Not available
Vapor Pressure	Not available
Vapor Density (Air=1)	Not available
Evaporation Rate	Not available

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Odour Threshold	Not available
Viscosity	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity
Partition Coefficient: n-octanol/water	Not available
Flash Point	> 392 °F (> 200 °C)
Flammability	Not flammable
Auto-Ignition Temperature	Not available
Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available
Explosion Properties	Not available
Oxidizing Properties	Not available
Kinematic Viscosity	Not available
Dynamic Viscosity	Not available

## 10. STABILITY AND REACTIVITY

Reactivity	<p>Curing reaction occurs with water.</p> <p>Chemical resistance test results for the cured bandage for exposure for 1 month:</p> <ol style="list-style-type: none"><li>1. Exposure to ethanol, diesel, gasoline, pure water, toluene. No change in bandage.</li><li>2. Exposure to acetone, mineral spirits, xylene, MEK, sulfuric acid 30%. Some colour change.</li><li>3. Exposure to caustic soda 20% and caustic soda 50% - no colour change, slightly reduced hardness. Bandage maintained integrity.</li><li>4. Exposure to 50% nitric acid. Severe discoloration, slightly reduced hardness. Bandage maintained integrity.</li><li>5. Exposure to hydrochloric acid 30%. Severe discoloration, no softening of bandage.</li></ol>
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	<p>Avoid contact with incompatible materials and condition. Avoid: accumulation of electrostatic charges, heating, flames and hot surfaces.</p> <p>Avoid moisture or water before use. This will cause unwanted hardening.</p>
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.
Possibility of hazardous reactions	Reacts with incompatible materials.
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	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	<p>Suspected of causing cancer. Classified as a suspected human carcinogen.</p> <p>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).</p> <p>Continuous filament glass fibers and mineral oil, excluding metal working fluids (pure, highly and severely refined) are listed as A4 – Not Classifiable as a Human Carcinogen according to American Conference of Industrial Hygienists (ACGIH).</p>
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.

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## 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.

## 13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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## 14. TRANSPORT INFORMATION

Transport Information	Not classified as Dangerous Goods by the criteria of the Department of Transport (DOT). 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 (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
DOT UN NO	Not regulated
DOT Proper Shipping Name	Not regulated
DOT Class	Not regulated
DOT Packing Group	Not regulated
DOT Identification (DOT)	Not applicable
DOT Special Requirements (Special)	Not applicable
DOT Exceptions (Exceptions)	Not applicable
DOT Symbols (SymbolS)	Not applicable
DOT Non-Bulk Requirements (NON_BULK)	Not applicable
DOT Bulk Requirements (BULK)	Not applicable
DOT Max. Passgr. Air/Rail. (MAXAIR)	Not applicable
DOT Max. Cargo Only Air/Rail. (MAXCARGO)	Not applicable
DOT Stowage (Stowage)	Not applicable
DOT Other Requirements (OTHER)	Not applicable
Transport in Bulk	Not available
Special Precautions for User	Not available

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## 15. REGULATORY INFORMATION

California Proposition 65	Not Listed
SARA Section 302	Not Listed
SARA (311,312) Hazard Class	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
SARA (313) Chemicals	Listed
USA (TSCA)	Listed
Reportable Quantity	5000 lbs
Other Information	Canada Canada (DSL/NDSL): Listed Canadian NPRI: Listed CEPA Toxic substances: Not listed

## 16. OTHER INFORMATION

Date of preparation or last revision of SDS	SDS amendment: June 2021 1. Identification 16. Other Information SDS Reviewed: December 2020, Supersedes: September 2019
References	ANSI Z400.1/Z129.1-2010. American National Standard for Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation. Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). OSHA Table Z-1 Limits for Air Contaminants (June 30, 1993)(29 CFR 1910.1000)(1971 Permissible Exposure Limits (PELs)). OSHA Table Z-3 (29 CFR 1910.1000).
Contact Person/Point	Tel: +61 7 3262 3755

## ...END OF SDS...

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## SAFETY DATA SHEET – RAPP-IT STEEL PUTTY 90MM

Infosafe No™ LQ5PY

Version No. 3.0

Issue Date: 18/05/2022


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### 1. IDENTIFICATION

GHS Product Identifier	RAPP-IT STEEL PUTTY 90MM
Company Name	PIPE REPAIR INTERNATIONAL
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	INFOTRAC 24/7 Emergency response contact phone numbers 1-800-535-5053 (free call from USA and Canada) 1-352-323-3500 (outside USA and Canada) 01-800-681-1530 (Mexico - local charges apply)
Recommended use of the chemical and restrictions on use	Adhesives, Sealants.
Manufacturer Information	MARINE & INDUSTRIAL MARKETING 12/14 Argyle Street, Albion, Queensland 4010 Australia

### 2. HAZARD IDENTIFICATION

GHS classification of the substance / mixture	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2 Sensitization - Skin: Category 1 STOT Single Exposure: Category 3 (respiratory tract irritation)
Signal Word(s)	WARNING
Hazard Statement(s)	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.
Pictogram(s)	Exclamation mark 
Precautionary Statement – Prevention	Avoid breathing dust. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.
Precautionary Statement – Response	Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.
Precautionary Statement – Storage	Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statement – Disposal	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. Harmful to aquatic life with long lasting effects. HMIS rating: Health Hazards: 2 Flammability: 0 Physical hazard: 0 Personal Protective Equipment: X  Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	EINECS	Proportion
	Talc	14807-96-6	238-877-9	20-<50 %
	Glass, oxide, chemicals	65997-17-3	266-046-0	10-30 %
	Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro- omega.-hydroxy-, ether with 2,2- bis(hydroxymethyl)-1,3-propanediol (4:1), 2- hydroxy-3-mercaptopropyl ether	72244-98-5	615-735-8	5-<10%
	Epichlorohydrin, bisphenol A resin	25068-38-6	500-033-5	5-<10 %
	bis-[4-(2,3-epoxipropoxy)phenyl]propane	1675-54-3	216-823-5	5-<10 %
	Quartz [Silica Crystalline]	14808-60-7	238-878-4	0.1-<1 %
	Ingredients determined not to be hazardous			Balance

Other Information

Talc: Non-asbestos form  
Fiberglass type: Continuous filament glass fibers (E-type)  
Epichlorohydrin, bisphenol A resin: Average molecular weight ≤ 700  
Quartz [Silica Crystalline]: Respirable powder (< 10 microns)

bis-[4-(2,3-epoxipropoxy)phenyl]propane  
Common name: Bisphenol A, diglycidyl ether

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. 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 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. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Protection for First Aiders	No action shall be taken involving any personal risk or without suitable training. Wear appropriate personal protective equipment and clothing to prevent exposure. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Other Information	For advice in an emergency, contact a Poisons Information Centre or a doctor at once.

## 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.
Decomposition Temp.	>302°F (>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 Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapors 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.
Other Information	NFPA rating: Health Hazards: 2 Flammability: 0 Instability: 0

## 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.
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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 get this material on clothing. Do not ingest. Use only in a well ventilated area. Keep containers sealed when not in use. 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 95 °F (35 °C). Do not store below 41 °F (5 °C).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limit Values	Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
	Continuous filament glass fibers	ACGIH	TWA	5	mg/m3	(inhalable particulate matter), 1 f/cc (respirable fibers), A4, URT irr
	Quartz [Silica Crystalline]	ACGIH	TWA	0.025	mg/m3	(respirable particulate matter), A2, Pulm fibrosis; lung cancer
	Talc containing no asbestos fibres	ACGIH	TWA	2	mg/m3	(respirable, < 1% crystalline silica), A4, Pulm fibrosis; pulm func
	Quartz [Silica Crystalline]	OSHA	TWA	0.05	mg/m3	1910.1053 Respirable crystalline silica
	Quartz (Respirable)	OSHA	TWA	10	mg/m3	/(% SiO2+2), 250 mppcf/ (%SiO2+5)
Biological Limit Values	No biological limits allocated.					
Other Exposure Information	Quartz (Respirable) applies to any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or is otherwise not in effect.					
Appropriate Engineering Controls	This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust 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/vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.					
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.					
Hand Protection	Wear gloves of impervious material such as butyl rubber. 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.					
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
Color	Grey, Black [Dark]
Odor	Sulfurous. Pungent. [Strong]
Decomposition Temperature	>302°F (>150°C)
Melting Point	Not available

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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 - 2.26
pH	Not applicable
Vapor Pressure	Not available
Vapor Density (Air=1)	Not available
Evaporation Rate	Not applicable
Odor 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 applicable
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	Heat, open flames and other sources of ignition. Extremes of temperature and direct sunlight.
Incompatible Materials	Strong exothermic reaction with: oxidizing agents, strong acids and strong alkalis.
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. When exposed to high temperatures may produce hazardous decomposition products.
Hazardous Polymerization	Not available

## 11. TOXICOLOGICAL INFORMATION

Toxicology Information	Toxicity data for material given below.
Acute Toxicity - Oral	Epichlorohydrin, bisphenol A resin LD50 (rat): > 2 g/kg  bis-[4-(2,3-epoxipropoxy)phenyl]propane LD50 (rat): 15000 mg/kg
Acute Toxicity - Dermal	Epichlorohydrin, bisphenol A resin LD50 (rabbit): > 2 g/kg  bis-[4-(2,3-epoxipropoxy)phenyl]propane LD50 (rabbit): 23000 mg/kg
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	May cause respiratory irritation. Inhalation of product dust can cause irritation of the nose, throat and respiratory system. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.
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 Classification: Skin Corrosion/Irritation: Category 2  Species: Rabbit Result: Mild irritant  bis-[4-(2,3-epoxipropoxy)phenyl]propane Classification: Skin Corrosion/Irritation: Category 2

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	<p>Species: Rabbit Exposure time: 4 hours Result: Mild irritant</p> <p>Species: Rabbit Exposure time: 4 hours Score: 0.8 (Erythema/Eschar)</p> <p>Species: Rabbit Exposure time: 4 hours Score: 0.5 (Edema)</p>
Eye	<p>Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.</p> <p>Epichlorohydrin, bisphenol A resin Classification: Eye Damage/Irritation: Category 2</p> <p>Species: Rabbit Result: Mild irritant</p> <p>bis-[4-(2,3-epoxipropoxy)phenyl]propane Classification: Eye Damage/Irritation: Category 2</p> <p>Species: Rabbit Exposure time: 24 hours Result: Mild irritant</p> <p>Species: Rabbit Exposure time: 24 hours Score: 0.4 (Redness of the conjunctivae)</p>
Respiratory sensitisation	<p>Not expected to be a respiratory sensitiser.</p>
Skin Sensitisation	<p>May cause an allergic skin reaction.</p> <p>Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether Classification: Sensitization - Skin: Category 1</p> <p>Epichlorohydrin, bisphenol A resin Classification: Sensitization - Skin: Category 1</p> <p>Species: Mouse Exposure routes: Skin Result: Sensitizing</p> <p>bis-[4-(2,3-epoxipropoxy)phenyl]propane Classification: Sensitization - Skin: Category 1</p> <p>Species: Mouse Exposure routes: Skin Result: Sensitizing</p>
Germ cell mutagenicity	<p>Not considered to be a mutagenic hazard.</p>
Carcinogenicity	<p>Not considered to be a carcinogenic hazard.</p> <p>This product contains crystalline silica. No exposure to free respirable crystalline silica is anticipated during normal use of this product as silica is bound in the liquid/paste. It should be noted, however, that respirable crystalline silica has been listed as a Group 1 human carcinogen by the IARC. Inhalation of respirable silica may cause cancer, silicosis or other serious delayed lung injury. Grinding or machining of coated materials may release silica. Use approved dust respirator when grinding, sanding or machining the dried items.</p> <p>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).</p> <p>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).</p> <p>bis-[4-(2,3-epoxipropoxy)phenyl]propane is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).</p> <p>Silica, crystalline is listed as A2 – Suspected Human Carcinogen according to American Conference of Industrial Hygienists (ACGIH). Continuous filament glass fibers is listed as A4 – Not Classifiable as a Human Carcinogen according to American Conference of Industrial Hygienists (ACGIH).</p> <p>Talc containing no asbestos fibers is listed as A4 – Not Classifiable as a Human Carcinogen according to American Conference of Industrial Hygienists (ACGIH).</p> <p>Silica, Crystalline (Respirable Size) is listed under 'Known To Be Human Carcinogens' in the Report on Carcinogens, according to the National Toxicology Program (NTP).</p> <p>Quartz [Silica Crystalline] Classification: Carcinogenicity: Category 1A</p>

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Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	May cause respiratory irritation.
Talc	Classification: STOT Single Exposure: Category 3 (respiratory tract irritation)
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. Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-hydro-.omega.-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether: Classification: Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 3 Epichlorohydrin, bisphenol A resin: Classification: Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 2 bis-[4-(2,3-epoxipropoxy)phenyl]propane: Classification: Hazardous to the aquatic environment, long-term (Chronic): Category Chronic 2
Persistence and degradability	Product: Not available Epichlorohydrin, bisphenol A resin: Not readily biodegradable. Result: 5% biodegradability in 28 days Method: OECD Test Guideline 301F bis-[4-(2,3-epoxipropoxy)phenyl]propane: Not readily biodegradable.
Mobility	Not available
Bioaccumulative Potential	Product: Not available Epichlorohydrin, bisphenol A resin: Low bioaccumulation potential. Bioconcentration Factor (BCF): 31 logPow: 3
Other Adverse Effects	No known significant effects or critical hazards.
Environmental Protection	Prevent this material entering waterways, drains and sewers.
Acute Toxicity - Daphnia	Epichlorohydrin, bisphenol A resin: LC50 (Daphnia): 1.8 mg/l/48h bis-[4-(2,3-epoxipropoxy)phenyl]propane: LC50 (Daphnia magna, fresh water): 1.8 mg/l/48h
Other Information	Chronic aquatic toxicity: Epichlorohydrin, bisphenol A resin: NOEC (Daphnia): 0.3 mg/l/21d bis-[4-(2,3-epoxipropoxy)phenyl]propane: NOEC (Daphnia): 0.3 mg/l/21d

## 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. Dispose of contents/ container to a licensed waste contractor. Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. Empty containers may contain hazardous residues. Incineration or landfill should only be considered when recycling is not feasible.
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## 14. TRANSPORT INFORMATION

Transport Information	Not classified as Dangerous Goods by the criteria of the Department of Transport (DOT). 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 (Air Transport, ICAO)	Not regulated
IATA/ICAO Proper Shipping Name	Not regulated

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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
DOT UN NO	Not regulated
DOT Proper Shipping Name	Not regulated
DOT Class	Not regulated
DOT Packing Group	Not regulated
DOT Identification (DOT)	Not applicable
DOT Special Requirements (Special)	Not applicable
DOT Exceptions (Exceptions)	Not applicable
DOT Symbols (SymbolS)	Not applicable
DOT Non-Bulk Requirements (NON_BULK)	Not applicable
DOT Bulk Requirements (BULK)	Not applicable
DOT Max. Passgr. Air/Rail. (MAXAIR)	Not applicable
DOT Max. Cargo Only Air/Rail. (MAXCARGO)	Not applicable
DOT Stowage (Stowage)	Not applicable
DOT Other Requirements (OTHER)	Not applicable
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

California Proposition 65	This product contains chemical(s) known to the state of California to cause cancer and/or to cause birth defects or other reproductive harm. Silica, crystalline (airborne particles of respirable size) - Type of Toxicity: Cancer
SARA Section 302	Not Listed
SARA (311,312) Hazard Class	Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2 Sensitization - Skin: Category 1 STOT Single Exposure: Category 3 (respiratory tract irritation)
SARA (313) Chemicals	Not Listed
USA (TSCA)	All components of this product are listed on the Inventory or exempted.
Reportable Quantity	No reportable quantity
Other Information	Canada Canada (DSL/NDSL): All components are listed or exempted. Canadian NPRI: Not listed CEPA Toxic substances: Not listed

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### 16. OTHER INFORMATION

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Date of preparation or last revision of SDS	SDS Reviewed: May 2022, Supersedes: May 2019
References	ANSI Z400.1/Z129.1-2010. American National Standard for Hazardous Workplace Chemicals – Hazard Evaluation and Safety Data Sheet and Precautionary Labeling Preparation. Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH). OSHA Table Z-1 Limits for Air Contaminants (June 30, 1993)(29 CFR 1910.1000)(1971 Permissible Exposure Limits (PELs)). OSHA Table Z-3 (29 CFR 1910.1000).
Contact Person/Point	Tel: +61 7 3262 3755

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