

Material Safety Data Sheet

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Issued By: Smart Pipe Wrap Solutions

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Smart Pipe Wrap
Company Name Smart Pipe Wrap Solutions ABN: 65 781 946 423
Address PO Box 1859 New Farm QLD Australia 4005
Telephone +61 411 249 149
Recommended Use Used for pipe repair to fluid, gas and air control pipes.

SECTION 2. INGREDIENTS

Ingredient	% by WT
Fibrous glass	50-60 %
4.4 Diphenylmethane diisocyanate polypropylene glycol polymer	30-40 %
Diphenylmethane-diisocyanate	2-10 %
Diphenylmethane diisocyanate homopolymer	1-5 %
Dimorpholinodiethyl ether	<2
Poly(dimethylsiloxane)	<=1
Benzoyl chloride	<=1

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Odour, Colour, Grade: White liquid resin impregnated on knit fiberglass: slight odour
General Physical Form: Solid
Immediate Health, Physical and Environmental Hazards: May cause allergic skin reaction. May cause allergic respiratory reaction. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Potential Health Effects

Eye Contact Moderate eye irritation: Signs/Symptoms may include redness, swelling pain, tearing and blurred or hazy vision.
Skin Contact Mild Skin Irritation: Signs/Symptoms may include localized redness, swelling and itching. Allergic skin reaction: Signs/Symptoms may cause redness, swelling, blistering and itching.
Inhalation Respiratory Tract Irritation: Signs/Symptoms may include cough, sneezing, nasal discharge, headache, hoarseness and nose and throat pain. Allergic Respiratory Reaction: Signs/Symptoms may include difficulty breathing, wheezing, cough and tightness of chest.
Ingestion Gastrointestinal Irritation: Signs/Symptoms may cause irritation of the gastrointestinal system. Symptoms may include pain, nausea, vomiting and diarrhoea.
Target Organ Effects Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

SECTION 4. FIRST AID MEASURES

The following first aid recommendations are based on assumptions that appropriate personal and industrial hygiene practices are followed.

Eye Contact Flush eyes with large amounts of water. If symptoms persist seek medical attention.
Skin Contact Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.
Inhalation Remove person to fresh air. If signs/symptoms persist get medical attention
If Swallowed Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Flammable Properties

Auto Ignition Temperature	No data available
Flash Point	Not applicable
Flammable Limits – LEL	Not applicable
Flammable Limits – UEL	Not applicable
Extinguishing Media	DO NOT USE WATER Use fire extinguishers with class B extinguishing agents (Carbon dioxide, dry chemical or foam).
Protection of Fire Fighters	Special Fire Fighting Procedures: Wear Self-Contained Breathing Apparatus (S.C.U.B.A) and full protective clothing should be worn (bunker gear).
Note	See Section 10 for hazardous combustion and thermal decomposition information.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures	Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation and personal protective equipment. Increase ventilation with fresh air. Evacuate all unnecessary personnel. Wear protective clothing to minimize skin and eye exposure. If possible contain the spill. Place inert absorbent material onto spillage. Clean up material and place into the same container by a qualified or authorised person. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of vapour or mist in the working atmosphere must be prevented. Ensure ventilation is adequate. DO NOT enter confined spaces where vapour or mist may have collected. Keep containers closed when not in use.
Conditions for Safe Storage	Store away from heat. Store out of direct sunlight. Store between 4C and 30C (40F and 80F). Keep container in a well-ventilated area. Avoid extreme heat. Keep container tightly closed when not in use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standards have been established for this material by the National Occupational Health and Safety Commission (NOHSC). However, over-exposure to any chemical may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions. NOHSC Standard of the constituent is listed below: SUBSTANCE TWA STEL NOTICES ppm mg/m ³ ppm mg/m ³ Isocyanates, all (as -NCO) - 0.02 - 0.07 Sen As published by the New Zealand Occupational Safety and Health Service (OSH): TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. According to current knowledge these concentrations should neither impair the health of, nor cause undue discomfort to, nearly all workers. 'Sen' notice - sensitizer. The substance can cause a specific immune response in some people. An affected individual may subsequently react to exposure to minute levels of that substance. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals; they are not a measure of relative toxicity.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use only in a well ventilated area. Where vapours or dust are generated and exposure standards are exceeded, the use of respiratory protection system is recommended.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Continued...

Respiratory Protection	<p>If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants, organic vapour respirator or supplied air respirator. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision.</p> <p>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.</p>
Eye Protection	<p>Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.</p>
Hand Protection	<p>Wear gloves of impervious material, PVC or nitrile rubber. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, Use and Maintenance.</p>
Body Protection	<p>Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material.</p>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A knitted fiberglass substrate impregnated with a polyurethane resin. Slight Odour.
Decomposition Temperature	Not available.
Melting Point	No data available.
Boiling Point	Not applicable.
Solubility in Water	Nil.
Specific Gravity	Not applicable.
pH Value	Not applicable.
Vapour Pressure	Not applicable.
Flash Point	Not applicable.
Flammability	Not applicable.
Auto-Ignition Temperature	Not available.
Flammable Limits – Lower	Not available.
Flammable Limits – Upper	Not available.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Materials & Chemicals Avoid	Strong bases: Amines: Water Additional Information: Product reacts with atmospheric moisture or water and may become unusable.
Incompatible Materials	Water, strong bases, alcohols, metal compounds and surface active agents.
Hazardous Decomposition Products	Oxides of nitrogen, oxides of carbon, hydrogen cyanide.
Hazardous Polymerization	Polymerisation will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicology Information	Please contact the address listed on the first page of the MSDS for information on this material and/or its components.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available for this specific product.
Persistence / Degradability	No data available for this specific product.
Mobility	No data available for this specific product.
Environ. Protection	Prevent product from entering the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose of according to relevant local, state and federal government regulations.
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SECTION 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.
U.N Number	None allocated.
Proper Shipping Name	None allocated.
DG Class	None allocated.
Hazchem Code	None allocated.
Packing Group	None allocated.

SECTION 15. REGULATORY INFORMATION

Poisons Schedule	Not scheduled.
Hazard Category	Fire Hazard, No Pressure Hazard - No Immediate Hazard - No delayed Hazard.

SECTION 16. OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association hazard ratings are assigned for use by emergency response personnel to address the hazards that are presented by short term, acute exposure to a material under conditions of fire, spill or similar emergencies. Hazard ratings are primarily based in the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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