



PIPE REPAIR BANDAGE

MATERIAL SAFETY DATA SHEET – RAPP-IT PIPE REPAIR BANDAGE

Infosafe No TM A00CG Issue Date: June 2011 ISSUED by MARININD PAGE: 1 OF 4
Product Name : RAPP-IT PIPE REPAIR BANDAGE Classified as Hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name RAPP-IT PIPE REPAIR BANDAGE
Company Name MARINE & INDUSTRIAL MARKETING (ABN 32051 014 049)
Address P.O. BOX 446 HAMILTON QUEENSLAND 4007
Telephone/Fax Number Tel: (07) 3262 3755 Fax: (07) 3262 3255
Recommended Use Used for emergency pipe repair to fluid control pipes.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous.
HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous
R36/37/38 Irritating to eyes, respiratory system and skin.
R40 Limited evidence of a carcinogenic effect.
R42/43 May cause sensitisation by inhalation and skin contact.

Safety Phrase(s) S23 Do not breathe gas/fumes/vapour/spray.
S24/25 Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S38 If insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell seek medical advice immediately.
S53 Avoid exposure - obtain special instructions before use. Refer to MSDS and application instructions before use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Fibre glass		50-52 %		
	Propylene polyol diphenyl methane diisocyanate prepolymer	9048-57-1	34.1 %		
	Diphenylmethane-di-isocyanate (MDI)	101-68-8	7.3 %	Xn, Xi	R20,R36/37/38, R42
	2,2-Dimorpholinodiethylether	6425-39-4	0.32-0.34 %	Xn, C	R20, R34

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. If symptoms develop seek medical attention.

Skin Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before re-use or discard. Seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities Eye wash fountain, 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 13 1126) or a doctor at once.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use carbon dioxide, dry chemical or foam. Only use water fog to keep undamaged containers cool.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, oxides of carbon, hydrogen cyanide.
Specific Hazards	Combustible solid. This product will burn if exposed to fire.
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. Firewater run-off, if not contained may cause environmental damage.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. 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.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia. However, the available exposure limits for ingredients are listed below: National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards: <table><tr><th>SUBSTANCE</th><th>TWA ppm mg/m3</th><th>STEL ppm mg/m3</th><th>NOTICE</th></tr><tr><td>Isocyanate as NCO</td><td>- 0.02</td><td>- 0.07</td><td>Sen</td></tr></table> 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. 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. 'Sen' Notice: The substance may cause sensitisation by skin contact or by inhalation.	SUBSTANCE	TWA ppm mg/m3	STEL ppm mg/m3	NOTICE	Isocyanate as NCO	- 0.02	- 0.07	Sen
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Isocyanate as NCO	- 0.02	- 0.07	Sen						
Biological Limit Values	No biological limit allocated.								
Engineering Controls	Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours, mists or dusts are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.								

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Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/particulate filter should be used. Reference should be made to Australian/New Zealand 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 or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	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.
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

Appearance	A knitted fibreglass substrate with a polyurethane resin.
Odour	Not available
Freezing Point	Not available
Boiling Point	200°C at 5mm Hg
Solubility in Water	Not available
Specific Gravity	Not available
pH Value	4-6
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	177°C (closed cup)
Flammability	Combustible at high temperatures
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Not available.
Incompatible Materials	Water, strong bases, alcohols, metal compounds and surface active agents.
Hazardous Decomposition Products	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of nitrogen, oxides of carbon, hydrogen cyanide.
Hazardous Polymerization	May occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Acute toxicity: LD50 (oral, rat): > 2000 mg/kg
Inhalation	Irritating to respiratory system. Inhalation of product vapours will cause irritation of the nose, throat, respiratory system, mucous membrane and upper airways, especially if the material is heated or dust are generated. Inhalation of high concentration may lead to headache, dizziness, nausea, vomiting and loss of co-ordination. Inhalation may cause sensitisation, and asthma-like symptoms in some individuals.

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Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Symptoms may include pain, nausea, vomiting and diarrhoea.
Skin	Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause sensitisation by skin contact. May cause redness, itching and irritation. Some substances such as MDI can cause a specific immune response in some people. Such substances are called sensitiser and the development of a specific immune response is termed 'sensitisation'. Exposure to a sensitiser, once sensitisation has occurred, may manifest itself as a skin rash or inflammation or as an asthmatic condition, and in some individuals this reaction can be extremely severe.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals. Prolonged or repeated exposure through inhalation of vapours/fumes may lead to sensitisation and occupational asthma.
Carcinogenicity	This substance is classified as a Category 3 Carcinogen according to National Occupational Health and Safety Commission (NOHSC). That is, there is some evidence from appropriate animal studies that human exposure to this substance may result in the development of cancer, but this evidence is insufficient to place the substance in Category 2. Category 3 Carcinogens are substances that cause concern for humans owing to possible carcinogenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data are available for this material.
Persistence / Degradability	Not available
Mobility	Not available
Environ. 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 according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
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15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled
Hazard Category	Harmful, Irritant

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: June 2011 Supercedes: May 2006 ...END OF MSDS...
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