# PIPE REPAIR BANDAGE

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



### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product Name | RAPP-IT PIPE REPAIR BANDAGE RAP304 |
| 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. |

### 2. HAZARDS IDENTIFICATION

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| Hazard Classification | Not classified as hazardous<br>NON-HAZARDOUS SUBSTANCE.<br>NON-DANGEROUS GOODS.<br>Hazard classification according to the criteria of NOHSC.<br>Dangerous goods classification according to the Australia Dangerous Goods Code. |

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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| Information on Composition | The polyurethane component contains 65-66% 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8), 24-25% 2-Propenenitrile, polymer with ethenylbenzene, methyloxirane and oxirane (CAS 58050-75-2) an 10-11% Fatty acids, coco, polymers with benzoic acid, pentaerythritol and phthalic anhydride (CAS 68604-67-1) reacted together. The final product contains 13% isocyanate in bonded or reacted form.<br>It is not expected to contain free isocyanates. |

| Ingredients | Name | CAS | Proportion | Hazard Symbol | Risk Phrase |
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| | Polyurethane | 9009-54-5 | 51-61 % | | |
| | Glass, oxide | 65997-17-3 | 47-49 % | | |

### 4. FIRST AID MEASURES

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| Inhalation | If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention. |
| Ingestion | Unlikely to occur due to the physical state of the product. However, if ingested, rinse mouth with water. Do NOT induce vomiting. Seek medical attention. |
| Skin | Wash affected area thoroughly with soap and water. If symptoms develop 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 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. |

### 5. FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media | Use carbon dioxide, dry chemical or foam. |
| Hazards from Combustion Products | Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanates and 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. |

## 6. ACCIDENTAL RELEASE MEASURES

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| 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. Collect material avoiding dust generation - 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

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| Precautions for Safe Handling | Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. 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. 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. Avoid contact with moisture or water as product will harden. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| 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:<br>National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:<br>Substance TWA ppm mg/m³ STEL ppm mg/m³ Notice<br>Isocyanate as NCO - 0.02 - 0.07 Sen<br>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.<br>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.<br>'Sen' Notice: The substance may cause sensitisation by skin contact or by inhalation. |
| Biological Limit Values | No biological limits 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. |
| 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 disposable 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. 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. |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | A knitted fibreglass substrate with a polyurethane resin. |
| Odour | Not available |
| Freezing Point | Not available |
| Boiling Point | 200°C |
| Solubility in Water | Reacts with water. |
| Specific Gravity | 1.12 at 25°C |
| pH Value | Not available |
| Vapour Pressure | Not available |
| Vapour Density (Air=1) | Not available |
| Flash Point | 200°C |
| Flammability | Combustible |
| Auto-Ignition Temperature | Not available |
| Flammable Limits - Lower | Not available |
| Flammable Limits - Upper | Not available |

## 10. STABILITY AND REACTIVITY

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| Chemical Stability | Stable under normal conditions of storage and handling. |
| Conditions to Avoid | Avoid moisture or water before use. This will cause unwanted hardening. |
| Incompatible Materials | Strong oxidising agents. |
| Hazardous Decomposition Products | Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanates and hydrogen cyanide. |
| Hazardous Polymerization | Will not occur. |

## 11. TOXICOLOGICAL INFORMATION

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| Toxicology Information | No toxicity data available for this material. The available toxicity data for 4,4'-methylenediphenyl diisocyanate is as follows:<br>LC50(Rat, Inhalation): 178 mg/m3<br>LD50(Rat,Oral): 9200 mg/kg |
| Inhalation | Isocyanates are harmful by inhalation and irritating to respiratory system. Inhalation of isocyanates may cause sensitisation, and asthma-like symptoms in some individuals. However due to the form of the product, exposure to isocyanate vapour is not expected. |
| Ingestion | Ingestion unlikely due to form of product. Ingestion of this product may irritate the gastric tract causing nausea and vomiting. |
| Skin | May be irritating to skin. Skin contact may cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause sensitisation by skin contact. |
| Eye | May be irritating to eyes. On eye contact this product may cause tearing, stinging, blurred vision, and redness. |
| Chronic Effects | Not available |
| Carcinogenicity | 4,4'-Methylenediphenyl diisocyanate 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. |

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## 12. ECOLOGICAL INFORMATION

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| 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

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

## 14. TRANSPORT INFORMATION

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| Transport Information | Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) |

## 15. REGULATORY INFORMATION

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| Regulatory Information | Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.<br>Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). |
| Poisons Schedule | Not Scheduled |

## 16. OTHER INFORMATION

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| Date of preparation or last revision of MSDS | MSDS Reviewed: October 2011<br>Supersedes: August 2011 |

**...END OF MSDS...**