

SAFETY DATA SHEET – RAPP-IT PIPE REPAIR BANDAGE

Infosafe No™ LPXZ9

Issue Date: 25/08/2020

ISSUED by MARINE & INDUSTRIAL MARKETING

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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 NZ National Poisons Centre : 0800 764 766 (0800POISON) 24 hrs |
| Recommended use of the chemical and restrictions on use | Used for emergency pipe repair for all pipes. |

2. HAZARD IDENTIFICATION

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| 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) STOT Repeated Exposure: Category 2 Acute Toxicity - Inhalation: Category 4 Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2A Sensitization - Respiratory: Category 1 Sensitization - Skin: Category 1 Carcinogenicity: Category 2 STOT Single Exposure: Category 3 (respiratory tract irritation) |
| 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 contaminated 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. P285 In case of inadequate ventilation wear respiratory 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. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. 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. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P314 Get medical advice/attention if you feel unwell. |

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Precautionary Statement – Storage P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

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 (contains Isocyanate-terminated and Polyol) | 51447-37-1 | 40-<70 % |
| | Fiberglass | 65997-17-3 | 30-60 % |
| | 4,4'-methylenediphenyl diisocyanate | 101-68-8 | 1-<10 % |
| | Ingredients determined not to be hazardous | | Balance |

4. FIRST AID MEASURES

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| Inhalation | If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention. |
| Ingestion | If ingested, 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 (Phone Australia 131 126, NZ 0800 764 766) 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 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. |

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. 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

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|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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' |

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupation Exposure Limit Values | <p>In case of cutting the bandage, dust may be released. 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.</p> <p>No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:</p> <p>Isocyanates TWA: 0.02 mg/m³ STEL: 0.07 mg/m³</p> <p>4,4'-Methylenediphenyl Diisocyanate TWA: 0.02 mg/m³ STEL: 0.07 mg/m³ NOTE: Carc.2</p> <p>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.</p> <p>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.</p> <p>Carc.2: Suspected human carcinogen.</p> <p>Source: Safe Work Australia.</p> |
| 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 | Not generally required. 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 Protection | Not generally required. 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. |
| 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 | Knitted fabric coated with sticky resin. |
| Colour | White/off white |
| Odour | A unique, weak odour |
| Decomposition Temperature | Not available |
| Boiling Point | Not available |
| Solubility in Water | Reacts in water |
| Specific Gravity | 1.12 (25°C) |
| pH | Not available |
| Vapour Pressure | Not available |
| Vapour Density (Air=1) | Not available |
| Evaporation Rate | Not available |
| Odour Threshold | Not available |
| Volatile Component | Not available |
| Partition Coefficient: n-octanol/water | Not available |
| Density | Not available |
| Flash Point | >200°C |

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| | |
|---------------------------|---------------|
| Flammability | Not flammable |
| Auto-Ignition Temperature | Not available |
| Explosion Limit - Upper | Not available |
| Explosion Limit - Lower | Not available |
| Melting/Freezing Point | Not available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability | Stable under normal conditions of storage and handling. |
| Reactivity and Stability | 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. |
| Conditions to Avoid | Avoid moisture or water before use. This will cause unwanted hardening. |
| Incompatible Materials | Uncured bandage: acids and bases, amines, alcohols and strong oxidizing agents. Avoid contact with incompatible materials and condition. Avoid : accumulation of electrostatic charges, heating, flames and hot surfaces. |
| 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 | Not available. |
| 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. Inhalation of product dust can cause irritation of the nose, throat and respiratory system. May cause respiratory irritation. 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. Isocyanate is 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 are 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 | Road and Rail Transport (ADG Code): Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition). Marine Transport (IMO/IMDG): Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Air Transport (ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. |
| UN Number | None Allocated |
| UN proper shipping name | None Allocated |
| Transport hazard class(es) | None Allocated |
| IMDG Marine pollutant | No |
| Transport in Bulk | Not available |
| Special Precautions for User | 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 |

16. OTHER INFORMATION

| | |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of preparation or last revision of SDS | SDS Reviewed: August 2020 Supersedes: March 2020 |
| References | <ul style="list-style-type: none">- 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.- 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 | David Huybers Tel: +61 7 3262 3755 |

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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

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

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| 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 |

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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 $\leq 18 \mu\text{m}$) 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. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SAFETY DATA SHEET – RAPP-IT STEEL PUTTY 90MM

Infosafe No™ LQ5PY

Version No. 2.0

Issue Date: 08/05/2019

ISSUED by MARINE & INDUSTRIAL MARKETING

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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) 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...

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