



MSDS

MATERIAL SAFETY DATA SHEET – RAPP-IT PIPE REPAIR BANDAGE

Infosafe No™ LPXZ9 Issue Date: April 2014 ISSUED by MARININD PAGE: 1 OF 5
Product Name : RAPP-IT PIPE REPAIR BANDAGE Classified as Hazardous

1. IDENTIFICATION

GHS Product RAPP-IT PIPE REPAIR BANDAGE
Identifier Company Name MARINE & INDUSTRIAL MARKETING (ABN 32051 014 049)
Address 12/14 Argyle Street, Albion, Queensland 4010
Telephone/Fax Number Tel: (07) 3262 3755 Fax: (07) 3262 3255
Emergency Phone Number Poisons Centre – 13 11 26 – 24 hours
Recommended use of the chemical and restrictions on use Used for emergency pipe repair to fluid control pipes.

2. HAZARD IDENTIFICATION


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)
Classification:
Acute Toxicity - Inhalation: Category 4
Sensitization - Respiratory: Category 1
Sensitization - Skin: Category 1
Carcinogenicity: Category 2
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 2A
STOT Repeated Exposure 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 by inhalation

General P101 If medical advice is needed, have product container or label at hand.

Precautionary Statement(s) P102 Keep out of reach of children.
P103 Read label before use.

Pictogram(s) Exclamation mark, Health hazard  

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 P308+P313 IF exposed or concerned: Get medical advice/ attention.
P314 Get medical advice/attention if you feel unwell.
P331 Do NOT induce vomiting.
P304+P340 IF INHALED: Remove 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.

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| | |
|------------------------------------|---|
| | P337+P313 If eye irritation persists: Get medical advice/attention. 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 re-use. |
| Precautionary Statement – Storage | P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. |
| Precautionary Statement – Disposal | P501 Dispose of contents/container to an approved waste disposal plant. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition The dry product is not classified as hazardous. When the product is used to repair pipes it reacts with water and hardens. This hardening process can generate some heat and may generate 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) which is hazardous. After hardening, exposure to isocyanates is not expected.

| Ingredients | Name | CAS | Proportion |
|-------------|---|--------------------------|-------------------|
| | Polyester polyol | | 0-70 % |
| | Propylene Oxide, Polymer with Ethylene Oxide and Glycerol | 9082-00-2 | 0-70 % |
| | 1,3-Di[4-[(p-isocyanatophenyl)methyl] Glass, oxide | 31107-36-5 65997-17-3 | 0-70 % 30-60 % |

4. FIRST AID MEASURES

| | |
|----------------------|--|
| Inhalation | If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. 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 | Exposure to wet product: Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. If product adheres to skin remove as soon as possible with acetone or alcohol. Wash contaminated clothing before reuse or discard. Seek medical attention. |
| Eye contact | Exposure to wet product: 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

| | |
|--|---|
| 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 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 heat-exposed containers. Fight fire from safe location. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust or vapour. 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. |
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7. HANDLING AND STORAGE

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. If product adheres to skin remove as soon as possible with acetone or alcohol. 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.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and including an Incompatibilities 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

Occupation Exposure Limit Values No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:
Safe Work, Australia Exposure Standards:

| Substance | TWA | | STEL | | NOTICES |
|---------------------------|-----|-------------------|------|-------------------|---------|
| | ppm | mg/m ³ | ppm | mg/m ³ | |
| Isocyanates, all (as NCO) | - | 0.02 | - | 0.07 | Sen |

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.

Biological Limit Values No biological limit allocated.

Appropriate 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance A knitted fibreglass substrate with a polyurethane resin

Odour Characteristic faint odour

Decomposition Not available

Temperature Freezing Point Not available

Boiling Point Not available

Solubility in Water Reacts with water.

Specific Gravity 1.12 at 25°C

pH Not available

Vapour Pressure Not available

Vapour Density (Air=1) Not available

Evaporation Rate Not available

Odour Threshold Not available

Partition Coefficient: n-octanol/water Not available

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Product Name : RAPP-IT PIPE REPAIR BANDAGE Classified as Hazardous

Flash Point >200°C
Flammability Not flammable
Auto-Ignition Temperature Not available
Flammable Limits - Lower Not available
Flammable Limits - Upper Not available

10. STABILITY AND REACTIVITY

Reactivity Curing reaction occurs with water.
Chemical resistance test results for the cured bandage for exposure for 1 month:
1. Exposure to ethyl alcohol, acetone, toluene, xylene, gasoline, mineral spirits, 20% sodium hydroxide, distilled water: No change in bandage.
2. Exposure to 30% hydrochloric acid and 50% caustic soda: No softening of bandage. Some colour change.
3. Exposure to 50% nitric acid: Blistering.

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 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, oxides of nitrogen, isocyanates and hydrogen cyanide.

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. Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation Isocyanates are harmful by inhalation and irritating to respiratory system. Inhalation of isocyanates may cause sensitisation, and asthma-like symptoms in some individuals. Exposure to isocyanates can occur when the product reacts with water.

Skin Exposure to isocyanates can occur when the product reacts with water. Isocyanates are irritating to the skin and 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 Exposure to isocyanates can occur when the product reacts with water. Isocyanates are irritating to eyes and on eye contact, can 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 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.

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 by inhalation.

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

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 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.

IMDG Marine Pollutant No

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

AICS (Australia) All components of this product are listed on the Inventory or exempted.

16. OTHER INFORMATION

Date of preparation or last revision of SDS SDS Amendment: July 2014
1. Identification of the Material and Supplier
SDS Reviewed: April 2014
Supersedes: October 2011

Literature 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.
American Conference of Industrial Hygienists (ACGIH)
Globally Harmonised System of classification and labelling of chemicals.

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MATERIAL SAFETY DATA SHEET – RAPP-IT STEEL PUTTY

Infosafe No™ A00AV Issue Date: August 2011 ISSUED by MARININD PAGE: 1 OF 3

Product Name : RAPP-IT STEEL PUTTY Not classified as hazardous

1. IDENTIFICATION

Product Name RAPP-IT STEEL PUTTY
Product Code RAPSTP001
Company Name MARINE & INDUSTRIAL MARKETING (ABN 32051 014 049)
Address 12/14 Argyle Street, Albion, Queensland 4010
Telephone/Fax Number Tel: (07) 3262 3755 Fax: (07) 3262 3255
Emergency Phone Number Poisons Centre – 13 11 26 – 24 hours
Recommended Use Not available

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Not Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | Name | CAS | Proportion |
|-------------|---|------------|------------|
| | Diglycidyl ether of bisphenol A | 25036-25-3 | 7-13 % |
| | Diglycidyl ether of bisphenol A | 25085-99-8 | 5-10 % |
| | 2,4,6-Tri(dimethyl aminomethyl) phenol | 90-72-2 | 0.5-1.5 % |
| | Ingredients determined not to be hazardous. | | Balance |

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop 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. If symptoms develop and persist seek medical attention.
First Aid Facilities Eye wash and normal washroom facilities.
Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, foam and dry chemicals.
Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur.
Specific Hazards Combustible paste. This product will readily burn under fire conditions.
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.

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 authorities and EPA in accordance with local regulations.

MATERIAL SAFETY DATA SHEET – RAPP-IT STEEL PUTTY

Infosafe No™ A00AV Issue Date: August 2011 ISSUED by MARININD PAGE: 2 OF 3

Product Name : RAPP-IT STEEL PUTTY Not classified as hazardous

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 mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. 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. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material. As with all chemicals, exposure should be kept to the lowest possible levels.

Biological Limit Values No biological limits allocated.

Engineering Controls Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 2004 - The storage and handling of flammable and combustible liquids for further information concerning ventilation requirements.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/dust 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, 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.

Hand Protection Wear nitrile gloves . 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 Putty

Odour Mercaptan/sulfur

Melting Point Not available

Boiling Point Not applicable

Solubility in Water Insoluble

Specific Gravity 2.25

pH Value Not available

Vapour Pressure Not available

Vapour Density (Air=1) Not available

Volatile Component Volatile organic compounds (VOC): <0.1%

Flash Point >60°C

Flammability Combustible

Auto-Ignition Temperature Not applicable

Flammable Limits - Lower Not applicable

Flammable Limits - Upper Not applicable

MATERIAL SAFETY DATA SHEET – RAPP-IT STEEL PUTTY

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Product Name : RAPP-IT STEEL PUTTY Not classified as hazardous

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of storage and handling.
Conditions to Avoid Heat and other sources of ignition.
Incompatible Materials Strong oxidising agent
Hazardous Decomposition Products Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide, carbon dioxide, oxides of nitrogen and sulfur.
Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data available for this product.
Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin May be irritating to skin. The symptoms may include redness, itching and swelling.
Eye May be irritating to eyes. The symptoms may include redness, itching and tearing.
Chronic Effects Not available

12. ECOLOGICAL INFORMATION

Ecological Information No ecological data are available for this material.
Ecotoxicity Not available
Persistence / Degradability Not available
Mobility Not available
Environ. Protection Do not discharge this material into 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.

14. TRANSPORT INFORMATION

Transport Information Not classified as a Dangerous Good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

15. REGULATORY INFORMATION

Regulatory Information Not classified as Hazardous
Not 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
AICS (Australia) All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Date of preparation or last revision of MSDS SDS Amendment: July 2014
1. Identification of the Material and Supplier
MSDS Reviewed: August 2011
Supersedes: June 2011
Contact David Huybers
Person/Point Tel: (07) 3262 3755

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