

SAFETY DATA SHEET (Australia & New Zealand)

Product Name: Fixapipe Bandage

SDS Number: 003 Version of SDS: 3.0

SECTION 1. PRODUCT IDENTIFIER AND IDENTITY FOR THE CHEMICAL

<i>Product Name/s:</i>	FIXAPIPE BANDAGE
<i>Product Material Name:</i>	Not applicable
<i>Recommended Use:</i>	Component of FIXAPIPE pipe repair kit

SECTION 1A. SUPPLIER IN AUSTRALIA

<i>Supplier Name:</i>	BSN medical Australia Pty Ltd
<i>Address:</i>	Level 6, 211 Wellington Road Mulgrave 3170
<i>Telephone:</i>	1300 276 633
<i>Emergency Telephone:</i>	000

SECTION 1A. SUPPLIER IN NEW ZEALAND

<i>Supplier Name:</i>	BSN medical Limited
<i>Address:</i>	103 Carlton Gore Road Newmarket Auckland 1023
<i>Telephone:</i>	0508 276 111
<i>Emergency Telephone:</i>	111

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Product Name: FIXAPIPE BANDAGE

SDS Number: 003 Version of SDS: 2.0

SECTION 2. HAZARD IDENTIFICATION

<i>Hazard Classification (including a statement of overall hazardous or dangerous nature):</i>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOOD Contains a water-activated polyurethane resin with isocyanate end groups. Excessive exposure may cause irritation of the respiratory tract and lungs and pulmonary edema. May cause sensitisation by inhalation. May cause asthmatic signs and symptoms in hypersensitive people.	
<i>Risk phrases:</i>	Hazard Category	Harmful, Irritant
	R36/37/38 R42/43	Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.
<i>Safety phrases:</i>	S23	Do not breathe vapour.
	S24/25	Avoid contact with skin and eyes.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S26	In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
	S46	If swallowed, seek medical advice immediately and show the container or label.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substances:

Ingredient	CAS No.	Proportion (%)
Polyurethane prepolymer	Proprietary	51
Fibreglass	Not applicable	49
The polyurethane prepolymer contains the following components:		
Diphenylmethane Diisocyanate (M.D.I.)	26447-40-5	6.9 - 7.5
Dimorpholinodiethylether (DMDEE Catalyst)	6425-39-4	< 0.14

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SECTION 4. FIRST AID MEASURES

Swallowed	Do not induce vomiting. Seek immediate medical attention.
Eye	Rinse eye with water for 15 minutes, whilst lifting eyelid. Get medical attention if effects persist.
Skin	Remove material from skin immediately by washing with soap and warm water. Seek medical attention if irritation persists.
Inhaled	Move individual to fresh air. Give oxygen in the event of breathing difficulty. Apply artificial respiration if necessary. Seek medical attention if effects persist.
First-Aid Facilities	Eye wash plus normal washroom facilities nearby.
Advice to Doctor	Treat symptomatically. May cause respiratory sensitisation or asthma-like symptoms.

SECTION 5. FIRE FIGHTING MEASURES

<i>Hazards from Combustion Products:</i>	The product is not readily combustible but will burn under fire conditions and give off toxic fumes, mainly carbon monoxide and carbon dioxide and with a possibility of hydrogen cyanide and nitrogen oxides (dependent upon combustion conditions).
<i>Suitable Extinguishing Media:</i>	Carbon dioxide, dry chemical, foam.
<i>Fire-fighting Procedures</i>	Vapours are extremely irritating when inhaled. Fire fighters should wear protective clothing and self-contained breathing apparatus where decomposition fumes may be formed.

SECTION 6. ACCIDENTIAL RELEASE MEASURES

<i>Spill / Leak Procedure</i>	Ventilate the area thoroughly. Avoid skin contact. Wear impervious gloves (e.g. vinyl, latex, nitrile). Absorb the spilled compound in sawdust or other absorbent. Store temporarily in an open container. Absorbed material should be treated
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SECTION 7. HANDLING & STORAGE

<i>Handling Advice</i>	Wear gloves (provided with kit) when handling the product. Refer to instructions for use provided with the product.
<i>Storage Advice</i>	Store in a cool, dry, well-ventilated area away from strong oxidising agents. During storage, avoid contact with water, alcohols, strong bases, metal compounds or surface-active materials.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<i>Exposure Standards</i>	<p>Isocyanates, all (as-NCO) (whilst the product is being cured, present as the polymer functional end groups).</p> <p>TWA 0.02 mg/m³ STEL 0.07 mg/ m³ Sensitiser</p> <p>In the event that the product requires removal using a method which generates dust, please note that dusts containing cured isocyanate material may cause a reaction in sensitised individuals. For Nuisance Dust: TWA 10 mg/m³.</p>
<i>Engineering Controls</i>	<p>Provide good dilution ventilation when applying the bandage and activating the resin to set. In the event that the product must be removed, provide good dilution ventilation if using oscillating saws for product removal. The use of shears offers an effective method to remove the product without dust generation.</p>
<i>Personal Protection</i>	<p>Avoid prolonged skin contact. Impervious gloves (e.g. vinyl, latex, nitrile) should be worn to prevent skin contact with the unset resin. Eye protection (safety glasses or goggles) should be worn. Wear rubber or plastic apron to protect skin and clothing.</p> <p>Respiratory protection is not needed in normal applications. In case of need, use air supply mask or respirator with canister for organic vapours/ isocyanates.</p>

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SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance and Odour	Tacky resin-coated fibreglass, covered with felted polypropylene. Very slight odour. When activated by water, the polyurethane resin crosslinks to give a rigid material releasing carbon dioxide in small amounts. A small exotherm is evident when the recommended water temperatures are used.
Melting Point / Boiling Point	MP: Resin only <15°C BP: Resin decomposes at above 200°C
Vapour Pressure	0.0002 mmHg at 24°C
Vapour Density (Air=1)	Not available
Specific Gravity	S.G. of resin approx. 1.2
Flashpoint	Resin: flash point 218°C
Flammability Limits (FL) (%)	Lower FL: Not available Upper FL: Not available
Autoignition Temperature	Not available
Solubility in Water (g/L)	Insoluble. Resin reacts with water with evolution of CO ₂ .
Percent volatile by volume	A small amount of carbon dioxide is released on cure.

SECTION 10. STABILITY & REACTIVITY

<i>Stability:</i>	Stable at room temperature. Polymerisation may occur if product is heated for long periods.
<i>Conditions to Avoid:</i>	Heat sources and contact with water. Moisture contamination may form CO ₂ gas pressure. Ensure water temperature is within recommended guidelines.
<i>Incompatible Materials:</i>	Avoid contact with water, alcohols, strong bases, metal compounds or surface-active materials.

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<i>Hazardous Decomposition Products:</i>	Carbon monoxide, carbon dioxide, nitrogen oxides, and the possibility of hydrogen cyanide. Moisture contamination may form CO ₂ gas pressure.
<i>Hazardous Polymerisation:</i>	May occur.
SECTION 11. TOXICOLOGY INFORMATION	
<i>Acute Effects</i>	
<i>Swallowed</i>	Not a likely route of exposure. Single dose oral toxicity is considered to be extremely low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury.
<i>Eye</i>	The unset resin system is potentially an irritant in direct contact with eyes. May cause very slight, temporary corneal damage. The resin vapour level at room temperature will not be sufficient to cause any health problems.
<i>Skin</i>	MDI LD ₅₀ for skin absorption in rabbits is >2000 mg/kg. DMDEE dermal toxicity in rabbits: LD ₅₀ 3058mg/kg. The unset resin system may cause skin sensitisation. It is potentially irritant in direct contact with skin. May stick to skin and cause irritation on removal. Prolonged skin contact or repeated exposure symptoms may include redness and a rash.

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<i>Inhaled</i>	<p>At temperatures higher than recommended (greater than 50°C), isocyanate-containing fumes may be generated. At room temperatures, vapours are minimal. May cause sensitisation by inhalation. Very low concentrations may cause asthmatic signs and symptoms in hypersensitive people. Short-term effects of exposures above the exposure standard may include breathing difficulties and sensitisation.</p> <p>In the event that the cured product requires removal, note the following:</p> <ul style="list-style-type: none"> • Removal using oscillating saws causes a potentially irritant dust, from the set isocyanate resin, to be released into the atmosphere. • The fibreglass present in this dust may cause respiratory mechanical irritation.
<i>Chronic Effects</i>	Chronic or repeated exposure may cause skin irritation and sensitisation.
SECTION 12. ECOLOGICAL INFORMATION	
<i>Environmental Issues</i>	The material is not considered to be dangerous to aquatic organisms.
<i>Persistence & Degradability</i>	In aqueous media, formation of insoluble and chemically inert polyureas will occur. No appreciable volatilisation from water to air is expected.
<i>Mobility</i>	Movement in the environment is expected to be limited due to the formation of insoluble polymers.
SECTION 13. DISPOSAL CONSIDERATIONS	
<i>Method of Disposal</i>	In accordance with local waste regulations. Hardened material is not classified as a hazardous waste. Allow to cure and then send to standard industrial landfill. May be incinerated in an approved facility.
SECTION 14. TRANSPORT INFORMATION	
<i>Classification</i>	Not classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Goods by Road and Rail.

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<i>UN No.</i>	Not applicable
<i>Class</i>	Not applicable
<i>Subsidiary Risk(s)</i>	Not applicable
<i>Packing Group</i>	Not applicable
<i>Hazchem Code</i>	Not applicable
<i>Shipping Name</i>	Not applicable
<i>Other</i>	Not applicable
SECTION 15. REGULATORY INFORMATION	
Poison Schedule:	Not a scheduled poison.
SECTION 16. OTHER INFORMATION	
<i>Date of Preparation or Review</i>	The revision details are included at the end of this document.
<i>Source(s) of Data:</i>	Based on MSDS No. 192 (issued 16 April 2013).

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

REVISION RECORD

Version	Date	Description of Change
1.0	3 Sept 2019	Updated to BSN medical template.
2.0	23 July 2024	Document review period. Updated BSN NZ address. No change to the rest of the document contents.

SAFETY DATA SHEET (Australia & New Zealand)

Product Name: Fixapipe Steel Putty

SDS Number: 004 Version of SDS: 2.0

SECTION 1. PRODUCT IDENTIFIER AND IDENTITY FOR THE CHEMICAL

<i>Product Name/s:</i>	FIXAPIPE STEEL PUTTY
<i>Product Material Name:</i>	Not applicable
<i>Recommended Use:</i>	Component of FIXAPIPE pipe repair kit

SECTION 1A. SUPPLIER IN AUSTRALIA

<i>Supplier Name:</i>	BSN medical Australia Pty Ltd
<i>Address:</i>	Level 6, 211 Wellington Road Mulgrave 3170
<i>Telephone:</i>	1300 276 633
<i>Emergency Telephone:</i>	000

SECTION 1A. SUPPLIER IN NEW ZEALAND

<i>Supplier Name:</i>	BSN medical Limited
<i>Address:</i>	103 Carlton Gore Road Newmarket Auckland 1023
<i>Telephone:</i>	0508 276 111
<i>Emergency Telephone:</i>	111

SAFETY DATA SHEET (Australia & New Zealand)

Product Name: FIXAPIPE STEEL PUTTY

SDS Number: 004 Version of SDS: 2.0

SECTION 2. HAZARD IDENTIFICATION

<i>Hazard Classification (including a statement of overall hazardous or dangerous nature):</i>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOOD Irritating to skin and eyes. May cause sensitisation by skin contact.	
<i>Risk phrases:</i>	Hazard Category	Irritant
	R36/38 R43	Irritating to eyes and skin. May cause sensitization by skin contact.
<i>Safety phrases:</i>	S24/25 S37/39 S26	Avoid contact with skin and eyes. Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
	S28	After contact with skin, wipe off, then wash immediately with plenty of soap and water.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Pure Substances:

Ingredient	Proportion (%)	CAS-No:
Diglycidyl Ether of Bisphenol A	7% to 13%	25036-25-3
Diglycidyl Ether of Bisphenol A	5% to 10%	25068-38-6
2,4,6-Tris(Dimethylamino)methyl phenol	0.5% to 1.5%	90-72-2

SECTION 4. FIRST AID MEASURES

Swallowed	Do NOT induce vomiting. Rinse mouth with water. Seek medical assistance if symptoms develop.
Eye	Flush eyes thoroughly with water for several minutes. If symptoms develop, consult a physician, preferable an ophthalmologist.
Skin	Wash skin thoroughly with plenty of soap and water. If symptoms develop, seek medical assistance.

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Inhaled	N/A, vapours are unlikely.
First-Aid Facilities	Eye wash plus normal washroom facilities nearby.
Advice to Doctor	Consider additional thorough skin wash with mild, non-abrasive soap and plenty of warm water for at least fifteen minutes.
SECTION 5. FIRE FIGHTING MEASURES	
<i>Suitable Extinguishing Media:</i>	Foam, alcohol foam, CO2, dry chemical, water fog.
<i>Hazards from Combustion Products:</i>	Combustible. On burning, the product may emit toxic fumes including carbon monoxide, carbon dioxide and oxides and nitrogen and sulphur.
<i>Fire-fighting Procedures</i>	Respiratory equipment should be worn to avoid inhalation of concentrated vapours. Water should not be used, except as fog to keep nearby containers cool. Fire fighters and others who may be exposed to the products of combustion should be equipped with NISOH approved positive pressure self-contained breathing apparatus and full protective clothing.
SECTION 6. ACCIDENTIAL RELEASE MEASURES	
<i>Spill / Leak Procedure</i>	Ventilate the area. Wear protective equipment to prevent skin and eye contact. Dispose of in normal manner in accordance with local regulations. Not a hazardous waste.
SECTION 7. HANDLING & STORAGE	
<i>Handling Advice</i>	No special precautions needed. Always wear gloves (provided with kit) when handling the product. Refer to instructions for use provided with the product. Keep out of reach of children.
<i>Storage Advice</i>	Store in a cool, dry, well-ventilated area, away from ignition sources.
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
<i>Exposure Standards</i>	No exposure standards established.
<i>Engineering Controls</i>	Use in a well-ventilated area. Provide local exhaust if the material is used at temperatures above 38°C.

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<i>Personal Protection</i>	<p>Wear appropriate impervious gloves.</p> <p>Wear safety glasses or goggles.</p> <p>Respiratory protection is not needed when used in a well-ventilated area.</p>
SECTION 9. PHYSICAL & CHEMICAL PROPERTIES	
Appearance and Odour	Putty. Mercaptan/sulphur odour
Melting Point / Boiling Point	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Specific Gravity	S.G. approx. 2.2
Flashpoint	> 60°C
Flammability Limits (FL) (%)	<p>Lower FL: Not available</p> <p>Upper FL: Not available</p>
Autoignition Temperature	Not available
Solubility in Water (g/L)	Insoluble
Percent volatile by volume	< 0.1%
SECTION 10. STABILITY & REACTIVITY	
<i>Stability:</i>	Stable under normal conditions of use.
<i>Conditions to Avoid:</i>	Avoid exposure to heat and sources of ignition.
<i>Incompatible Materials:</i>	None known.
<i>Hazardous Decomposition Products:</i>	Carbon dioxide, aldehydes, acids, oxides of nitrogen and sulphur.
<i>Hazardous Polymerisation:</i>	Will not occur.
SECTION 11. TOXICOLOGY INFORMATION	
<i>Acute Effects</i>	

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<i>Swallowed</i>	May result in nausea, vomiting and irritation of the gastric tract.
<i>Eye</i>	May cause moderate eye irritation.
<i>Skin</i>	Has caused allergic skin reactions in humans. A single exposure is not likely to cause skin irritation. Prolonged and repeated contact may cause skin irritation with local redness.
<i>Inhaled</i>	Vapours are unlikely due to physical properties of the product.
<i>Chronic Effects</i>	No data available
SECTION 12. ECOLOGICAL INFORMATION	
<i>Environmental Issues</i>	No data available. Avoid contamination of sewers and waterways.
<i>Persistence & Degradability</i>	No data available
<i>Mobility</i>	No data available
SECTION 13. DISPOSAL CONSIDERATIONS	
<i>Method of Disposal</i>	In accordance with local waste regulations. May be sent to standard industrial landfill or incinerated in an approved facility Not classified as hazardous waste.
SECTION 14. TRANSPORT INFORMATION	
<i>Classification</i>	Not classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Goods by Road and Rail.
<i>UN No.</i>	Not applicable
<i>Class</i>	Not applicable
<i>Subsidiary Risk(s)</i>	Not applicable
<i>Packing Group</i>	Not applicable

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Product Name: FIXAPIPE STEEL PUTTY

SDS Number: 004 Version of SDS: 2.0

<i>Hazchem Code</i>	Not applicable
<i>Shipping Name</i>	Not applicable
<i>Other</i>	Not applicable
SECTION 15. REGULATORY INFORMATION	
Poison Schedule:	Not a scheduled poison.
SECTION 16. OTHER INFORMATION	
<i>Date of Preparation or Review</i>	The revision details are included at the end of this document.
<i>Source(s) of Data:</i>	Based on MSDS No. 193 (issued 16 April 2013).

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REVISION RECORD

Version	Date	Description of Change
1.0	3 Sept 2019	Updated to BSN medical template.
2.0	23 July 2024	Document review period. Updated BSN NZ address. No change to the rest of the document contents.