



MATERIAL SAFETY DATA SHEET

STATEMENT OF PRODUCT HAZARDOUS NATURE FOR

BT31 Non Sag Epoxy Resin Part B Hardener

This product is classified as hazardous according to criteria of NOHSC

This product is classified as Class 8 Goods: Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

IDENTIFICATION OF SUPPLIER

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HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION:	Classified as a HAZARDOUS SUBSTANCE according to criteria of NOHSC. Classified as DANGEROUS GOODS according to criteria of ADG Code.
RISK PHRASES:	
R20/21/22:	Harmful by inhalation, in contact with skin and if swallowed.
R34:	Causes burns
R42/43:	May cause sensitisation by inhalation or skin contact.
R51/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
SAFETY PHRASES:	
S24/25:	Avoid contact with the skin and eyes.
S26:	In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre on 13 11 26 (Australia-wide).
S28:	After contact with skin, wash immediately with water (and soap if available)
S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
S61:	Avoid release to the environment.

COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:		
Chemical Name:	Proportion:	CAS Number:
Isophoronediamine	10 – 30 %	[2588-13-2]
Benzyl Alcohol	30 – 60 %	[100-51-6]
N-Amineoethylpiperazine	1 – 10 %	[140-31-8]
Triethylenetetramine	10 – 30 %	[112-24-3]



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Balance of formulation consists of ingredients below cut-off rates or ingredients determined not to be hazardous.

FIRST AID MEASURES

- INHALATION:** If inhaled, remove patient from contaminated area to fresh air – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Lay patient down in a comfortable position, keep warm and rested. Seek medical attention if further symptoms develop. If not breathing, clear airway and apply artificial respiration.
- INGESTION:** If swallowed, DO NOT induce vomiting. Rinse mouth with plenty of water. Seek immediate medical advice from a doctor or the Poisons Information Centre (13 11 26 Australia-wide).
- SKIN:** If skin or hair contact occurs, remove all contaminated clothing and wash before reuse. Flush skin and/or hair with running water and soap if available. Seek medical assistance if irritation persists.
- EYES:** If product comes into contact with eyes, hold eyelids apart and flush the eye continuously with fresh running water. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
- FIRST AID FACILITIES:**
Eye wash and normal washroom facilities.
- ADVICE TO DOCTOR:**
Treat symptomatically. **POISON INFORMATION CENTRE** – 13 11 26 Australia-wide. This product is corrosive.

FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:**
Water mist CO₂, foam or dry powder.
- HAZARDS FROM COMBUSTION PRODUCTS:**
Combustion may release toxic fumes, including carbon monoxide, amines, ammonia, and nitrogen oxides.
- SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS:**
Heating can cause expansion or decomposition leading to violent rupture of containers. Keep containers cool with water spray. Fire fighters should wear self contained breathing apparatus if risk of exposure to vapour or products of combustion. Avoid bodily contact with substance or run off.
- SPECIFIC HAZARDS:**
Liquid and vapour are flammable. Vapour forms an explosive mixture with air.

ACCIDENTAL RELEASE MEASURES

- EMERGENCY PROCEDURES:**
Product may be slippery when spilt – avoid accidents by cleaning up any spills immediately. Wear gloves, protective goggles and appropriate protective equipment to avoid eye and skin contact. Isolate and contain spill and soak up with inert material such as clay or sand. Prevent by any means possible the material from entering storm water drains, waterways, basements or workpits. Collect in suitable containers and ensure these are correctly labelled. Ensure area is thoroughly ventilated before recommencing work.



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METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:

Contain and collect spills as detailed above. Refer to State Land Waste Management Authority for disposal considerations.

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Wear protective goggles or face shield and rubber gloves and barrier cream to prevent eye and skin contamination. Contact lenses pose a special hazard as they may absorb irritants. Suitable protective clothing, PVC gloves and boots should be worn. Use in a well ventilated area, preferably outdoors. General exhaust is normally adequate. If risk of overexposure exists, wear SAA approved dust respirator.

CONDITIONS FOR SAFE STORAGE:

Store in accordance with AS 3780-1994: The storage and handling of corrosive substances; and AS1940: The storage and handling of flammable and combustible liquids.

STORAGE:

Store in a cool, dry, well-ventilated area out of direct sunlight. Store away from strong acids and oxidising agents.

INCOMPATIBILITIES:

No restrictions.

EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:

No exposure standards have been established for this product by NOHSC. No exposure limits have been established for individual constituents.

BIOLOGICAL LIMIT VALUES:

Not established for the product.

ENGINEERING CONTROLS:

If used in limited ventilation, ensure adequate ventilation to maintain exposure levels are kept below standards, by using a local exhaust. Keep containers closed when not in use.

PERSONAL PROTECTION:

Avoid unnecessary contact as good work practice. Wash contaminated clothing and protective equipment before storing and reuse. Wash hands before eating, smoking, or using the toilet.

RESPIRATORY PROTECTION:

It is usually safe not to use respiratory protection. However, where engineering controls are not effective in controlling airborne exposure, the use of a mask or other device is appropriate. For assistance in selecting suitable equipment consult AS/NZ1715.

EYE PROTECTION: Eye protective measures are normally necessary, and are suggested when using this product. Consult AS1336 and AS/NZ1337.

PROTECTIVE GLOVES:

Rubber, PVC or other protective gloves are necessary, and desirable, especially if this product is being used frequently or for lengthy periods. Consult AS2161 for guidance.

CLOTHING:

Clean overalls should be worn, preferably with an apron. Consult AS2919 for clothing guidance.

SAFETY FOOTWEAR:

Wearing safety boots is advisory. Consult AS/NZ2210 for advice on Occupational Protective Footwear.



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PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Thin amber liquid
ODOUR:	Strong amine odour
SOLUBILITY:	Insoluble
VAPOUR DENSITY:	Not available
VAPOUR PRESSURE:	Negligible
MELTING POINT:	Not applicable
BOILING POINT:	Not available
FREEZING POINT:	Not available
SPECIFIC GRAVITY:	0.92 – 0.98
FLASH POINT:	> 62°C
UPPER FLAMMABLE LIMIT:	Not established
LOWER FLAMMABLE LIMIT:	Not established
AUTOIGNITION TEMPERATURE:	Unknown
VOLATILE ORGANIC COMPOUNDS CONTENT:	Not stated

STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal conditions
CONDITIONS TO AVOID:	Keep away from strong acids and oxidising agents.
INCOMPATIBLE MATERIALS:	No restrictions
HAZARDOUS DECOMPOSITION PRODUCTS:	On burning may emit toxic fumes, including carbon monoxide, amines, ammonia and nitrogen oxides.
HAZARDOUS REACTIONS:	None

TOXICOLOGICAL INFORMATION

TOXICOLOGY INFORMATION: No toxicity data is available for this product.

HEALTH EFFECTS FROM THE LIKELY ROUTES OF EXPOSURE:

INHALATION:	Vapour or mist is irritating to the upper respiratory tract and may cause sensitisation. Inhalation of vapour may aggravate pre-existing conditions such as asthma, bronchitis or emphysema. Acute effects may be chest and nasal irritation with coughing, sneezing, headache and nausea. Hazard increases at elevated temperatures.
INGESTION:	Harmful and highly irritating if swallowed. Swallowing may result in nausea, vomiting, abdominal pain and diarrhoea. May cause chemical burns to the mouth, throat and oesophagus, with extreme discomfort and pain. Considered an unlikely route of entry in commercial and industrial environments.
SKIN:	Prolonged exposure is highly irritating and may cause drying and cracking of the skin. Material is corrosive and can cause chemical burns. Capable of causing dermatitis and sensitisation resulting in hives, rash, itching or swelling of extremities. Toxic effects may result from skin absorption. Sensitisation may appear after repeated symptom-free exposures. Open cuts,



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EYES:

abraded or irritated skin should not be exposed to this material. This material may accentuate pre-existing skin conditions.

CHRONIC EFFECTS:

Highly irritating to the eyes and is capable of causing pain and corneal burns. If not promptly treated, can lead to permanent eye injury.

May causes sensitisation in susceptible individuals by skin contact or inhalation. Repeated or prolonged skin contact may result in allergic contact dermatitis.

ECOLOGICAL INFORMATION

ECOTOXICITY:

Not available

PERSISTENCE AND DEGRADABILITY:

Not available

MOBILITY:

Not available

ENVIRONMENTAL PROTECTION:

Product is toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment. Avoid contaminating waterways.

DISPOSAL CONSIDERATIONS

DISPOSAL METHODS AND CONTAINERS:

Refer to State Land Waste Management Authority. Empty containers must be decontaminated. Normally suitable for disposal at approved land waste site.

TRANSPORT INFORMATION

This material is a Class 8:

Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 Goods are incompatible in a placard load with any of the following:

Class 1:

Explosives

Class 4.3:

Dangerous When Wet substances

Class 5.1:

Oxidising Agents

Class 5.2:

Organic Peroxides

Class 6:

Toxic Substances (where the toxic substances are cyanides and the corrosives are acids)

Class 7:

Radioactive Substances

Foods:

Incompatible with foods and food packaging in any quantity.

UN NUMBER:

1760

UN PROPER SHIPPING NAME:

Corrosive Liquids N.O.S.

DANGEROUS GOODS CLASS:

8

SUBSIDIARY RISK:

None assigned

PACKING GROUP:

III

SPECIAL PRECAUTIONS PER USER:

Keep containers tightly sealed, store in a cool, dry, well ventilated place out of direct sunlight. Keep away from strong acids and oxidising agents.

HAZCHEM CODE:

3X



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REGULATORY INFORMATION

POISON SCHEDULE:	S5
OHS:	Unregulated
ENVIRONMENTAL:	Unregulated
NATIONAL AND INTERNATIONAL REGULATORY INFORMATION:	Unregulated

OTHER INFORMATION

This MSDS is valid until 01/09/2021