

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) Name: Araldite 502. Catalogue # C041.
Other Names: Araldite M
Recommended Use: General purpose epoxy

Supplier Name: ProSciTech
Postal Address: PO Box 111, Thuringowa Central Qld. 4817 Australia
Street Address: 1/11 Carlton Street, Kirwan, Qld. 4817 Australia
Telephone Number: (07) 4773 9444
Fax Number: (07) 4773 2244
Emergency Contact: (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification: Hazardous according to criteria of NOHSC.
Risk Phrases: R61: May cause harm to unborn child. R62: Possible risk of impaired fertility. R36-38: Irritating to eyes and skin. R43: May cause sensitisation by skin contact. R51-53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrases: S28: After contact with skin wash immediately with plenty of soap and water. S37-39: Wear suitable gloves and eye/face protection. S53: Avoid exposure - obtain special instructions before use. S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

SUBSTANCE:
Chemical Identity: Araldite 502
Common Name(s): dibutyl phthalate, bisphenol A-(epichlorhydrin) epoxy resin
CAS Number(s): 84-74-2, 25068-38-6

MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Dibutyl Phthlate	84-74-2	15-21
Bisphenol A-(epichlorhydrin) epoxy resin	25068-38-6	70-82

SECTION 4 - FIRST AID MEASURES

Swallowed: Immediately give plenty of water (if possible charcoal slurry). Do not induce vomiting, seek immediate medical attention.
Eye: Rinse eyes with running water for at least 15minutes. If eye irritation persists consult an ophthalmologist.
Skin: Wash skin with soap and water, if irritation occurs or persists see a doctor.
Inhaled: Move person to fresh air. If symptoms persist see a doctor.
First Aid Facilities: Eye Bath, Safety Shower.
Medical Attention & Special Treatment: Treat symptomatically.
ADDITIONAL INFORMATION: Irritating to eyes and skin. May cause sensitisation by skin contact. Possible risk of impaired fertility. May cause harm to an unborn child.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, foam or dry powder.
Hazards from Combustion Products: Burning produces obnoxious and toxic fumes and carbon oxides.
Precautions for Fire Fighters: Do not use a high volume water jet to extinguish flames. Wear self-contained breathing apparatus and protective suit.
Hazchem Code:

SECTION 6 - ACCIDENTAL RELEASE MEASURES**Emergency Procedures:**

Containment and clean up: Soak up with absorbent material (eg. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal. Do not allow the material to contaminate ground water system. Prevent the material from entering drains.

SECTION 7 - HANDLING & STORAGE

Precautions for Safe Handling: Provide sufficient air ventilation, handle the container with care, use protective equipment to prevent contact with skin/eyes.

Conditions for Safe Storage: Keep away from food, drink and animal feed. Keep container tightly closed and store away from incompatible materials. Keep at temperatures between 2 and 40°C.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards: AU-TWA 5mg/m³.

Biological Limit Values: No biological limit allocated.

Engineering Controls: Use material only in a well ventilated area. Use appropriate protective equipment, and wash thoroughly after handling.

Personal Protective Equipment: In case of unsuitable ventilation wear suitable respiratory equipment, NIOSH/MSHA approved. Face shield or safety goggles. Butyl rubber gloves for periods over 480 minutes and Nitrile rubber gloves for a period less than 480 minutes. Protective suit and safety shoes.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance: Light yellow liquid.

Odour: Slight.

pH: Approx 7 at 20°C, 1:1 in water.

Vapour pressure: 0.02 Pa at 20°C.

Vapour density: Not available.

Boiling point/range: >200°C.

Freezing/melting point: Not available.

Solubility: at 20°C, note: practically insoluble.

Specific gravity or density: 1.1 g/cm³ at 25°C.

Flash Point: 192°C. Method: DIN 51758 (Pensky-Mertens Closed Cup).

Flammable (explosive) limits: Not available.

Ignition temperature: Not available.

Additional Information: Thermal decomposition: >200°C. Dynamic Viscosity: 1250-1600 mPa.s at 25°C. Miscibility with water: immiscible at 20°C.

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: Stable.

Conditions to avoid: Static electricity discharge.

Incompatible Materials: Strong acids, bases and oxidising agents.

Hazardous Decomposition Products: Carbon oxides. Burning produces obnoxious and toxic fumes.

Hazardous Reactions: Product as received will not present a dust explosion hazard. If cured material made using this product is to be machined or sanded, a dust explosion may be created. All dust generated should be removed as quickly as possible.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute and chronic health effects: LD50 rat >5000mg/kg. No adverse health effects expected, however large amount may cause nausea and vomiting.

Possible routes of exposure: Eye/skin contact, inhalation, ingestion.

Range of effects following exposure: Irritation, skin sensitisation, nausea, vomiting.

Dose likely to cause injury:

Delayed effects:

Relevant negative data:

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Persistence and degradability:	Not readily biodegradable.
Mobility:	
Additional Information:	Avoid subsoil penetration, prevent from entering drains, do not contaminate surface water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:	Spilt/waste material should be disposed of by incineration by an approved agent and according to local regulations. Containers should be sent to an approved agent for cleaning and recycling or incineration according to local regulations.
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Special Precautions:

SECTION 14 - TRANSPORT INFORMATION

UN Number:	UN3082
UN Proper Shipping Name:	Environmentally hazardous substance, Liquid, N.O.S.
Class and Subsidiary risk:	9
Packing Group:	III
Special Precautions for User:	
Hazchem Code:	

SECTION 15 - REGULATORY INFORMATION

Poison Schedule Number:	5
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SECTION 16 - OTHER INFORMATION

Date of preparation of MSDS:	14 September 2007
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