

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Epotec High Build Epoxy Pack B Hardener

Recommended Use: Hardener for epoxy surface coating

Supplier: Hitchins Technologies Pty Ltd
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Ashmore QLD 4214

Telephone Number: +61 7 5597 6435
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Australian Poisons Centre: 13 11 26

2. HAZARDS IDENTIFICATION

Hazard Classification: ERMA GROUP STANDARD – Surface Coatings and Colourants (Flammable, Toxic[6.1])

Substance Classification: 3.1B, 6.1D, 6.3B, 6.4A, 6.5A, 6.5B, 6.8B, 6.9B, 8.1A, 8.2B, 8.3A, 9.1D, 9.2B, 9.3B

Hazard Statements: Flammable liquid, acute toxicity, skin irritant, eye irritant, respiratory sensitizer, contact sensitizer, reproductive or developmental toxicity, target organ or systemic toxicity, metal corrosive, skin corrosive, eye corrosive, aquatic ecotoxic, soil ecotoxic, vertebrate ecotoxic.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Proportion	TLV:
Propan-2-ol 1-[bis[2-[(1,3-Dimethylbutylidene)amino]ethyl]amino]-3-phenoxy	68541-07-1	>94%	-
Diethylenetriamine	111-40-0	<4%	-
Methyl iso-butyl ketone	108-10-1	<2%	-

4. FIRST AID MEASURES

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

Swallowed:	Nil by mouth. Do NOT induce vomiting. Seek medical attention IMMEDIATELY.
Skin:	Remove immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If persistent irritation occurs, seek medical attention.
Inhaled:	Remove to fresh air and keep at rest in a comfortable position. If rapid recovery does not occur, seek medical attention.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention promptly.

Prolonged contact may result in chemical burns and permanent damage. May cause allergic respiratory reaction. May cause allergic skin reaction.

5. FIRE FIGHTING MEASURES

Explosion:	Flammable liquid. Can cause explosive mixtures with air. Closed container may explode when exposed to extreme heat. Isolate from heat, electrical equipment, sparks and open flame. Carbon monoxide may be evolved if incomplete combustion occurs. May generate ammonia gas. May generate toxic nitrogen oxide gases.
Fire Extinguishing Media:	Foam, carbon dioxide or dry chemical powder.
Special Information:	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:	If contamination of land, sewers or waterways has occurred advise local emergency services.
Methods and materials for Containment and clean up:	Slippery when spilt. Extinguish all naked flames and remove ignition sources. Ventilate the area and evacuate all non-essential personnel. Avoid breathing vapours, and contact with skin, eyes or clothing. Avoid accidents, clean up immediately. Contain – prevent run off onto soil and into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Store at ambient temperatures. Keep containers tightly closed and in a well ventilated area. Keep away from direct sunlight, and other sources of heat or ignition. Keep away from water, acids and oxidizers. (See section 10 below.)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Limits:

Personal Protection:

Hands/Feet: Nitrile gloves or elbow length PVC gloves. PVC boots or PVC safety gumboots.

Eyes: Wear glasses/goggles with side shields or face shield to protect face and eyes. Contact lenses pose a special hazard: soft lenses may absorb irritants and all lenses concentrate them.

Breathing: Full face respirator with organic vapour canister NPF 400.

Other: Normal work clothes covering arms and legs. Overalls, solvent resistant apron and boots. Provide sufficient ventilation to maintain exposure at safe level.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow liquid.

Odour: Amine

Solubility:

Specific Gravity: 0.97

pH: alkaline

Boiling Point: >100 °C

Flash Point: 57 °C

Flammability Limits, % vol: no data

Vapour Pressure: (mm Hg at 21°C) <1.00

Vapour Density: no data

Autoignition Temp: no data

% Volatile by Weight: no data

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.

Conditions to avoid: Avoid exposure to heat or ignition sources. Container can be pressurized by carbon dioxide due to reaction with humid air or water.

Incompatible materials: Sodium hypochlorite, organic acids, mineral acids, peroxides, nitrous acid, reactive metals, oxidizing agents, alcohols, water.

Hazardous decomposition Products: Nitric acid, ammonia, nitrogen oxides, carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments, nitrosamine.

Product slowly corrodes copper, aluminium, zinc and galvanized surfaces.

Reaction with peroxides may result in explosion.

Reacts energetically with water.

Carcinogenic n-nitrosamines may be formed on reaction with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

11. TOXICOLOGICAL INFORMATION

Ingestion:	Acute oral LD50 (rat) > 670 mg/kg. Aspiration into lungs may cause chemical pneumonitis which can be fatal.
Eye Contact:	Severe Irritant.
Skin Contact:	Acute dermal LD50 (rabbit) > 1250 mg/kg. Contact with skin will result in irritation. Known to be a skin sensitizer. Prolonged or repeated exposure may cause defatting of skin, leading to dermatitis.
Inhalation:	Respiratory sensitizer. Acute inhalation LC50 (rat) > 10mg/l. Harmful by inhalation. Narcotic at high vapour concentrations.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Aquatic ecotoxic. Soil ecotoxic. Vertebrate ecotoxic.
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13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Resin solution, flammable
U.N No:	1866
Packing Group:	III
Hazchem:	3(Y)E
Class:	3b

15. REGULATORY INFORMATION

Classified as hazardous, the following sub classifications apply:

- 3.1B** Flammable liquid
- 6.1D** Acute toxicity
- 6.3B** Skin irritant
- 6.4A** Eye irritant
- 6.5A** Respiratory sensitizer
- 6.5B** Contact sensitizer
- 6.8B** Reproductive or developmental toxicity
- 6.9B** Target organ or systemic toxicity
- 8.1A** Metal corrosive
- 8.2B** Skin corrosive
- 8.3A** Eye corrosive
- 9.1D** Aquatic ecotoxic
- 9.2B** Soil ecotoxic.
- 9.3B** Vertebrate ecotoxic

16. OTHER INFORMATION

Date of Preparation: 7 May 2010

Product Code: 70-0000

Version: 2

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