

SAFETY DATA SHEET




Epoxy Bind - Part A



SECTION 1: Identification Of The Substance And Supplier

Product Name:	Epoxy Bind - Part A
Other Name:	Epoxy Resin
Recommended Use:	Product is designed for use in the manufacture of polymer modified asphalt. The addition of these products significantly increase the performance of Asphalt Mixes.
Company Details:	Road Science
Address:	9 Owens Place, Mt Maunganui
Telephone Number:	07 575 1150
Emergency Telephone Number:	07 575 1150 24hr / 7 days or National Poisons Centre 0800 POISON (0800 764 766)

SECTION 2: Hazards Identification

Warning	
Hazard Classification:	DG classes: 6.3A, 6.4A, 6.5B, 9.1B
EPA Approval Number:	HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 Classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land
Hazard Statements:	H315 Causes skin irritation H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Prevention Statements	P103 Read label before use P261 Avoid breathing fume/vapours. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/eye protection. P273 Avoid release to the environment.

SECTION 3: Composition/Information On Ingredients

Chemical Identity	Content %	Cas Number
Bisphenol A/ epichlorohydrin epoxy resin	70 – 90%	25068-38-6
Propylene Carbonate	10 – 25%	108-32-7

SECTION 4: First Aid Measures

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

FIRST AID INSTRUCTIONS:

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical assistance.

Eyes Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.

Inhaled: Remove victim from area of exposure. Remove

contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.

Skin Contact: If skin contact occurs, immediately remove contaminated clothing and wash skin thoroughly using soap if available. If irritation occurs seek medical advice.

Notes to physician: Treat symptomatically. If skin sensitization has developed and causal relationship has been confirmed, further exposure should not be allowed.

SECTION 5: Fire-Fighting Measures

Hazards from combustion: Not classified as flammable but will burn. On burning may emit toxic fumes, including those of hydrogen chloride and oxides of carbon.

Fire-fighting advice: Fire fighters to wear self-contained breathing apparatus and suitable protective clothing. Keep

adjacent containers cool by spraying with water.

Suitable Extinguishing Media: Use dry chemical powder, alcohol foam, water spray or fog

Hazchem Code 2X

SECTION 6: Accidental Release Measures

Emergency procedures: If contamination of sewers or waterways has occurred advise local emergency services.

Methods for containment & clean up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin & eye contact. Wipe up with rag or absorbent paper

For large spills: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain - prevent runoff into drains and waterways. Use absorbent material (sand or earth). Collect and seal in properly labelled containers for disposal.

SECTION 7: Handling and Storage

Handling advice: Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage advice: Store below 60°C

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits: Not value assigned for this specific material by Worksafe NZ.

Engineering Control Measures: Use local exhaust ventilation. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protective Equipment: Wear an approved/certified respirator or equivalent. Gloves, protective clothing and safety glasses should be worn.

SECTION 9: Physical and Chemical Properties

Physical state:	Viscous liquid
Solubility in water:	Slightly soluble
Specific Gravity:	1.10 – 1.20
Flash Point (°C):	Not available
Flammability Limits (%):	Not available
Boiling Point/Range (°C):	Not available
Colour	Water white

SECTION 10: Stability and Reactivity

Stability: The product is stable.

Incompatible materials: Reactive with acids, alkalis.

Conditions to avoid: Not available

SECTION 11: Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Low toxicity if swallowed.

Eye contact: May cause eye irritation.

Skin contact: Slightly irritating to skin. Has caused allergic skin reaction in humans.

Inhalation: Vapour may be irritating to the nose, throat and lungs.

Long Term Effects: Prolonged or repeated exposure may cause skin sensitization.

Toxicological Data: No LD50 data available for the product. However, for constituent: Bisphenol A/ epichlorohydrin epoxy resin: Oral LD50 (rat) >11400 mg/kg, Dermal LD50 (rabbit) 23000 mg/kg

Propylene carbonate: Oral LD50 (rat) 29100 mg/kg, Dermal LD50 (rabbit) >20ml/kg

SECTION 12: Ecotoxicity Information

Avoid contaminating waterways. Not readily biodegradable. Has the potential to bio-accumulate. If product enters soil, it will be mobile and may contaminate groundwater.

Acute toxicity LC50 (rainbow trout) 2 mg/l, 96h. EC50 (water flea) 1.8mg/l, 72h, static test

Potential for mobility in soil is low. Bio-accumulation is moderate.

SECTION 13: Disposal Considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

Once cured this can be disposed of. Check with your local council first.

Empty container: Do not contaminate storm water with product or product washing. Do not pour product down the drain. Unwanted product should be reacted with appropriate amount of Part B and allowed to cure.

SECTION 14: Transport Information

Road and Rail Transport	Classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land
UNNo.	3082
Class:	9
Proper Shipping Method:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)
Hazchem Code:	2X
Packing Group:	III
Marine Transport	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UNNo.	3082
Class:	9
Proper Shipping Method:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)
Hazchem Code:	2X
Packing Group:	III
Air Transport	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UNNo.	3082
Class:	9
Proper Shipping Method:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)
Hazchem Code:	2X
Packing Group:	III

SECTION 15: Regulatory Information

DG classes:	6.3A, 6.4A, 6.5B, 9.1B Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017. The HSNO Approval Number for this Group Standard is HSR002670.
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SECTION 16: Other Information

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