

SAFETY DATA SHEET


Epoxy Bind - Part B



SECTION 1: Identification Of The Substance And Supplier

Product Name:	Epoxy Bind - Part B
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	 Signal Word: WARNING Skin sensitisation Category 1, Aquatic toxicity (chronic) Category 3 EPA Approval: HSR002670. Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020 6.5B, 9.1C
Hazard Classification:	GHS classification of the substance/mixture: Classified as Hazardous according to Hazardous Substances (Hazard Classification) Notice 2020 Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.
Hazard Statements:	Hazard Statements: H317: May cause an allergic skin reaction. H412: Harmful to aquatic life with long lasting effects.

SECTION 2: Hazards Identification

Precautionary Statements – Prevention:	P103: Read label before use. P261: Avoid breathing vapours. P103: Read label before use. P261: Avoid breathing vapours. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/eye protection.
Precautionary Statements – Response:	P302+P352: IF ON SKIN: Wash with plenty of soap and water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P363: Wash contaminated clothing before reuse.
Precautionary Statements – Storage:	P403: Store in well ventilated area.
Precautionary Statements – Disposal:	P501: 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 A and allowed to cure. Once cure this can be disposed of. Check with your local council first.

SECTION 3: Composition/Information On Ingredients

Chemical Identity	Content %	Cas Number
Bitumen	40-60%	8052-42-4
Fatty acids, C18 Unsaturated	20-40%	68937-90-6
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	< 2	41556-26-7
Nonylphenol, ethoxylated	< 0.5	127087-87-0

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. Immediately rinse mouth with water. Seek medical attention.

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: May emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

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: Carbon dioxide, dry chemical or foam.

Hazchem Code: N/A

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. For Petroleum Hydrocarbons (Bitumen fumes) TWA 5mg/m³.

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

SECTION 9: Physical and Chemical Properties

Physical state:	Very viscous liquid
Solubility in water:	Insoluble
Specific Gravity:	No available
Flash Point (°C):	Not available
Flammability Limits (%):	Not available
Boiling Point/Range (°C):	Not available
Colour	Dark

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions.

Incompatible materials: Incompatible with strong oxidizing agents.

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: May cause 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:

Fatty acids, C18 Unsaturated: Oral LD50 (rat) > 9000mg/kg

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate: Oral LD50 (rat) 3230 mg/kg

Nonylphenol, ethoxylated: Oral LD50 500 mg/kg, Dermal LD50 (rabbit) > 3160 mg/kg

SECTION 12: Ecotoxicity Information

Avoid release to the environment.

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate: LC50 (fish *Lepomis macrochirus*) 0.97 mg/l, 96hr

(*Oncorhynchus mykiss*) 7.9 mg/l, 96hr. EC50 (*Daphnia magna*) 20 mg/l, 24hr.

Nonylphenol, ethoxylated: Toxicity to fish: LC50(*Lepomis macrochirus* (Bluegill sunfish)): 2.4 -2.8 mg/l

Exposure time: 96 h

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.

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 A and allowed to cure. Once cured this can be disposed of. Check with your local council first.

SECTION 14: Transport Information

Not regulated as dangerous goods for transportation

SECTION 15: Regulatory Information

DG classes:

EPA Approval: HSR002670.

Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017

SECTION 16: Other Information

Revision Indicator: V.2

Issued: 21 August 2024

The information contained in this document is, to the best of our knowledge, true and accurate, but since the conditions of use are beyond our control, any recommendations or suggestions which may be made are without guarantee and no warranty, expressed or implied, is given. We reserve the right to change this document at any time.