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## MATERIAL SAFETY DATA SHEET

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Hazardous according to criteria of Worksafe

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Date of Issue: Jul 2008

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### 1. IDENTIFICATION

#### General

Product Name: Epoxy Mortar part A

Other Names: Epoxy Resin

UN No. : 3082

Dangerous Goods Class : 9

Subsidiary Risk : None Allocated

Hazchem Code: 2X

Pack Group: III

EPG: 47

Poisons Schedule : 5

Uses: Epoxy resin used in the manufacturing of heavily filled compositions for the building and civil engineering industries.

#### 1.1 Physical Description / Properties

1.2 Appearance: Pale-yellow liquid with slight odour.

Formula:

Boiling Point: N/A deg C

Melting Point: N/A deg C

Vapour Pressure: N/A

Specific Gravity: 1.1 (water = 1)

Flash Point: Open Cup >150

pH: N/A ()

Solubility in water: N/A g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit: N/A

Upper Explosion Limit: N/A

#### 1.3 Other Properties

Density: 1120kg/m<sup>3</sup> @ 25 deg C Auto-ignition temperature (ASTM D-1929): 400 deg C

#### 1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
BISPHENOL A / EPICHLORHYDRIN RESIN	[25068-36-6]	50 - 60
BISPHENOL F / EPICHLORHYDRIN RESIN	[28064-14-4]	20 - 30

## 2. HEALTH HAZARD INFORMATION

### 2.1 Health Effects - Acute

**Swallowed:** May be harmful if swallowed in large amounts. Ingestion may cause nausea, diarrhea, abdominal and vomiting.

**Eye:** Substance is irritating to the eyes. Contaminating of eyes will result in transient pain, lachrymation and redness.

**Skin:** Irritating to skin. Frequent and prolonged contact can cause skin sensitisation.

**Inhaled:** Inhalation of the vapours (generated at elevated temperatures) or mists can cause irritation to the nose and throat and upper respiratory tract.

### 2.2 Health Effects – Chronic

Prolonged or repeated contact may result in skin sensitisation.

### 2.3 First Aid

**Swallowed:** DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek immediate medical advice.

**Eye:** If in eye (s) wash with large amounts of water for approximately 15 minutes holding eyelid (s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.

**Skin:** If contact with skin occurs immediately remove contaminated clothing, and wash affected area with soap and water. Ensure contaminated clothing is washed before re-use. If irritation persists seek immediate medical attention.

**Inhaled:** Remove affected person from contaminated area and seek medical advice. If not breathing apply artificial respiration and seek urgent medical advice.

### First Aid Facilities

Ensure an eye bath and safety shower are available and ready for use.

### 2.5 Advice to Doctor

Treat symptomatically. If skin sensitisation has developed and a casual relationship has been confirmed, further exposure should not be allowed.

### 2.6 Toxicity Data

Oral LD50: > 2000mg/kg Dermal : > 2000mg/kg

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## 3. PRECAUTIONS FOR USE

### 3.1 Exposure Standards

No exposure standard has been established for this product by Worksafe .

### 3.2 Engineering Controls

Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or where no exposure standard is allocated, as low as is reasonably practicable.

### 3.3 Personal Protection

Avoid contact with skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list: - Eye protection - Leather gloves - Leather apron - Leather boots. If contamination occurs, change clothing taking care to avoid skin contact with the contaminated area, and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse.

### 3.4 Flammability

Combustible liquid, will not burn unless preheated. Isolate from sources of heat, naked flames or sparks. Refer to AS1940 - Storage and Handling of flammable and combustible liquids and AS2865 - Safe working in a confined space, for more specific information on these subjects.

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## SAFE HANDLING INFORMATION

### 4.1 Storage / Transport

Classified as a Class C2 combustible liquid for storage and handling purposes. Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Handling : Ensure a high level of personal hygiene is maintained when using This product. That is; always wash hands before eating, drinking, smoking or using toilet.

### 4.2 Packaging / Labeling

UN No. 3082

Class 9

Sub Risk None Allocated

Hazchem Code 2X

Pack Group III

EPG No. 47

Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

Hazard IRRITANT

### Risk Phrases

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

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of soap-suds.

S37/39 Wear suitable gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### 4.3 Spills and Disposal

#### Spills

Clean-up personnel should wear full protective clothing including breathing apparatus if there is risk of inhalation. Extinguish or remove all sources of ignition and stop leak if safe to do so.

Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed containers and hold for disposal.

Clean area with detergent and water.

**Disposal**

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility. DO NOT allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.

**4.4 FIRE AND EXPLOSION HAZARD****Fire / Explosion**

Combustible. Combustion products include oxides of carbon. Hazardous Reaction : Stable under normal conditions. Reacts with strong oxidising agents. Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperatures and above. Polymerises in contact with caustic soda. Reacts exothermically with bases (e.g caustic soda), Ammonia, primary and secondary amines, alcohols and acids.

**Extinguishing Media**

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use foam, carbon dioxide or powder type extinguishers. Keep storage tanks, pipelines, fire-exposed surfaces etc cool with water spray. Shut off any leak if safe to do so and remove all sources of re-ignition.

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**5 OTHER INFORMATION****Other Information**

Mobility: sinks in water. Not readily biodegradable. Has the potential to bioaccumulate. Acute toxicity (fish): Toxic,  $1 < LC50 < 10\text{mg/l}$ . Sewage treatment: EC > 1 - 10mg/l, to organisms in sewage treatment plants. Toxic to aquatic organisms, may cause long - term adverse effects in the aquatic environment. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.

**5.1 Contact Points**

Organisation	Location	Telephone	Ask For
Con-Treat Pty Ltd	2/58 Township Drv, Burleigh QLD 4220 Australia	0422 320 468	Technical Officer