

**1.00 IDENTIFICATION OF SUBSTANCE and Manufacturer**

EPO-CRACKSEAL: Twin pack epoxy resin for the repair of concrete.

Adomast Manufacturing Ltd

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**2.00 COMPOSITION/INFORMATION ON INGREDIENTS**

Resin: A Diglycidylether of Bisphenol and reactive diluent CGE.

Hardener: A blend of polyamide and modified aromatic amine.

**2.20 COMPONENTS WITH HEALTH HAZARDS/LIMIT VALUE**

Resin Component:

Chemical Name:	Composition (%w/w)	EEC No:	CAS No:
Diglycidylether of Bisphenol A	< 50	68240-06-2	

Risk Phrases:	R36/38, R43	Hazard Symbols:	Irritant
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Hardener Component:

Chemical Name:	Composition (%w/w)	EEC No:	CAS No:
Tetra ethylene pentamine	< 5	612-060-00-0	112-57-2

Risk Phrases:	R21/22, R34, R43	Hazard Symbols:	(C) Corrosive
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Chemical Name:	Composition (%w/w)	EEC No:	CAS No:
Di Amini Di Phenol Methane	< 10	101-77-9	

Risk Phrases:	R20/21/22, R43, R45, R48/20/21	Hazard Symbols:	(T) Toxic
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Chemical Name:	Composition (%w/w)	EEC No:	CAS No:
Tar Acid	< 10	84989-05-9	

Risk Phrases:	R24/25, R34	Hazard Symbols:	(T) Toxic
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**3.00 HAZARDS IDENTIFICATION**

Toxic in contact with skin and if swallowed (R24/25). Causes burns (R34). Irritating to eyes and skin (R36/38). May cause sensitisation by skin contact (R43). May cause cancer (R45).

**4.00 FIRST AID MEASURES**

Eyes: In case of contact irrigate with clean water for at least 15 minutes. Obtain medical attention. Skin Immediately remove contaminated clothing, swab skin with glycerol, polyethylene glycol 300 or a mixture of PEG/IMS 70:30 for at least 10 minutes. Use water if solvents not available. Seek medical attention. Inhalation: Remove from exposure to vapours, rest and keep warm, obtain medical advice. Ingestion:

Wash out mouth thoroughly and give water to drink in sips. Obtain medical advice. Do not induce vomiting.

### **5.00 FIRE FIGHTING MEASURES**

Special Exposure Hazards: Keep containers cool by spraying with water. Oxides of nitrogen emitted on combustion. Suitable Extinguishing Agents: Alcohol Resistant Foam, Carbon Dioxide, Dry Powder (BC Powder), Water Spray (Fog) Special Protective Equipment for Fire Fighters: Self contained breathing apparatus. Unsuitable Extinguishing Agent: Halones

### **6.00 ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Avoid skin contact, wear suitable protective clothing including impervious gloves with raw materials. Hardened material does not present a hazard. Environmental Precautions: Transfer to container for disposal and ensure all possible precautions are taken to prevent material entering drainage system, waterways. Hardened material does not present a hazard. Methods for Clearing Up: Scoop up. Absorb any residue on inert material (sand, earth) and sweep up. Place in container for disposal. Reacted material will harden.

### **7.00 HANDLING AND STORAGE**

Handling: The usual precautions for safe handling of chemicals should be observed. Avoid contact with skin and eyes (S24/25) In case of insufficient ventilation wear suitable respiratory equipment (S38) In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26) This material and/or its container must be disposed of as hazardous waste (S60) Once the material has been mixed and hardened in the correct proportion it does not present a health hazard. Storage: Store at room temperature away from direct sources of heat. Keep containers closed. Reseal containers after use to prevent hardening of resin and use within one week if not stored separated.

### **8.00 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering measures/ System design: Local exhaust ventilation in areas of poor ventilation. Hand Protection: PVC gloves Eye Protection: Wear close fitting safety goggles to BS 2092 I.C. where there is a risk of direct contact or splash. Provide an eye wash station. Skin Protection: Impervious clothing, rubber boots. Hygienic Measures: Apply skin protection cream before handling.

### **9.00 PHYSICAL AND CHEMICAL PROPERTIES**

Resin Component:

Appearance: Clear Liquid      Odour: Very slight  
Boiling Point (°C): No data      Flash Point: No Data  
Vapour Pressure (mm Hg): No data      Solubility (Water): Slight  
Freezing Point (°C): No data      Relative Density: 1.13 - 1.14  
Colour: Gardner 3 Max      pH: 7.00

Hardener Component:

Odour: Phenolic      Boiling Point (°C): > 200  
Flash Point(°C): > 150      Flash Point Method: N/A  
Vapour Pressure (mmHg): No data      Solubility (Water): Insoluble

Freezing Point (°C): No data    Relative Density : 1.05  
Colour: Dark grey            pH: No data

**10.00 STABILITY AND REACTIVITY**

Stability: Normally stable. Conditions to Avoid: Do not leave containers open when not in use. Material to Avoid: Reacts with amines and polyamides causing an exotherm (this is the hardener component). Hazardous Decomposition Products: Noxious and toxic fumes  
Hardener Component: Stability: Normally stable. Conditions to Avoid: Do not leave containers open when not in use. Material to Avoid: Acids, Epoxy Resins ( exothermic) Hazardous Decomposition Products: Phenol Homologues, formaldehyde, nitrogen oxides

**11.00 TOXICOLOGICAL INFORMATION**

Inhalation: Harmful to respiratory tract. Skin Contact: May cause sensitisation by skin contact. Ingestion: Irritation. Eye Contact: Harmful causes irritation, pain redness. Long Term Exposure: No data available.

**12.00 ECOLOGICAL INFORMATION**

The product is essentially insoluble in water, and may cause long term adverse effects in the aquatic environment as the unhardened/ unreacted components.

**13.00 DISPOSAL CONSIDERATIONS**

Dispose of unreacted/unhardened components in accordance with Local and National Regulations, consult a qualified waste disposal contractor. Wear protective clothing during disposal operations.

**14.00 TRANSPORT INFORMATION**

Resin component: Not regulated

UN No: 3082    UN Packing Group: 9    Hazard Class:    ADR/RID:

Hardener component:

UN No: 2922 UN Packing Group: II Hazard Class:    ADR/RID: 8

Transport labels: Corrosive (toxic)

**15.00 REGULATORY INFORMATION**

Risk Phrases:

R10 Flammable    R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R36/38 Irritating to eyes and skin    R43 May cause sensitisation by skin contact. R45 May cause cancer    R51 Toxic to aquatic organisms

R53 May cause long term adverse effects in the aquatic environment

Safety Phrases:

S16 Keep away from sources of ignition - No smoking. S24/25 Avoid contact with skin and eyes. S38 In case of insufficient ventilation wear suitable respiratory equipment. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S60 This material and/or its container must be disposed of as hazardous waste

**16.00 OTHER INFORMATION**

It is the responsibility of the user to carry out a full assessment of the risks associated with the use of the above product in accordance with the current C.O.S.H.H. regulations. For trade use only, not for sales to the general public.