

# MATERIAL SAFETY DATA SHEET

## EPOXY MORTAR LIGHTWEIGHT - PACK A

### 1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Mortar LW- Pack A  
 Product Type : Epoxy Resin  
 Application : Epoxy Resin Concrete Repair Compound.  
 Supplier : Emergency Telephone Number: (01202) 891899  
 Epoxy Products Limited, 7 Haviland Road, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ

### 2. Hazards Identification

Main Hazards	Irritant Dangerous for the environment.
Human Health Hazards	Irritating to eyes and skin. May cause sensitisation by skin contact
Safety Hazards	Not classified as flammable but will burn
Environmental Hazards	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### 3. Composition/Information on Ingredients

**Chemical Nature** Mixture of epoxy resin liquids

#### Preparation - Hazardous Ingredients (Europe)

Component	CAS/EINECS	Concentration %	Classification	Risk Phrases
Epoxy Resin Bisphenol Type A (Mol. Wt. <700)	25068-38-6	5 - 10	Xi, N	R36/38, R43, R51/53
Epoxy Resin Bisphenol Type F (Mol. Wt. =<700)	28064-14-4	2 - 5	Xi, N	R36/38, R43, R51/53
Aliphatic glycidyl ether	68609-97-2	1 - 2	Xi, N	R38, R43, R51/53

### 4. first-aid Measures

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held apart during irrigation to ensure water contact with entire surface of eyes and lids. Seek immediate medical attention.
Skin Contact	Wipe off as much as possible with a clean cloth. Wash skin thoroughly with soap and water. Solvents should not be used to clean the skin because they may increase the penetration of the material.
Ingestion	Wash out mouth with water. If accidentally swallowed, give large quantities of water or milk or dilute the effects on the stomach. Do not induce vomiting. Seek immediate medical attention.
Inhalation	Remove from exposure to fresh air. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

### 5. Fire-fighting Measures

Extinguishing Media	Use foam, water spray or carbon dioxide.
Extinguishing Media – Not suitable	Do not use water jet.
Special Hazards of Product	Combustion will produce smoke, carbon dioxide and carbon monoxide.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

### 6. Accidental Release Measures

Personal Precautions	Avoid contact with skin, eyes and clothing
Environmental Precautions and Clean-up methods	Try to prevent the material from entering the drains or water courses.
Spillages	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal

### 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing
Storage	Store in the original container securely closed.
Storage temperature	Ambient

### 8. Exposure Controls/Personal Protection

Engineering Control Measures	Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Not normally required. In confined areas a half mask respirator with organic vapour cartridge and particulate filter NPF 20 (gas only)
Hand Protection	Butyl or nitrile type gloves or any impermeable gloves must be worn. The inside of the gloves must be kept clean
Eye Protection	Safety eye glasses must be worn.
Skin and Body Protection	Standard issue work clothes.

### 9. Physical and Chemical Properties

Physical State	Wet sand
Colour	Various
Odour	Slight pine odour
Ph	ca. 7
Boiling Point	>200° C
Flash Point	>150° C
Auto Ignition Temperature	>300° C
Vapour Pressure	< 0,01 Pa at 20° C
Water Solubility	Negligible

## 10. Stability and Reactivity

Conditions to avoid	Caustic soda can induce vigorous polymerisation at temperatures around 200°C.
Materials to avoid	Strong oxidising agents. Caustic soda.
Hazardous Decomposition Products	Hazardous decomposition products are not expected to form during normal storage.
Hazardous Reactions	Stable under normal use conditions. Reacts with strong oxidising agents. Polymerises exothermically with amines, mercaptans at ambient temperatures. Polymerises in contact with caustic soda. Reacts exothermically with bases (eg. caustic soda), ammonia, primary and secondary amines, alcohols and acids.

## 11. Toxicological Information

Acute Oral Toxicity	Expected to be of low toxicity
Acute Dermal Toxicity	Expected to be of low toxicity
Eye Irritation	Expected to be slightly irritant.
Skin Irritation	Expected to be slightly irritant.
Sensitisation	Expected to be a skin sensitiser.
Carcinogenicity	Not expected to be carcinogenic.
Mutagenicity	Not considered to be a mutagenic hazard.

## 12. Ecological Information

<u>Persistence/Degradability</u>	
Biodegradable	This product is expected to be not readily biodegradable.
Bioaccumulation	Has the potential to bioaccumulate.
<u>Ecotoxicity Effects</u>	
Toxicity to fish	Expected to be very toxic. LC/EC/IC 50 > 1 mg/l
Toxicity to algae	Expected to be toxic 1. LC/EC/IC 50 > 10 mg/l
Acute toxicity to invertebrates	Expected to be toxic 1. LC/EC/IC 50 > 10 mg/l
Mobility	The product is insoluble in water and sinks in water.
Sewage treatment	Expected to be practically non toxic 1. LC/EC/IC 50 > 100 mg/l
Basis for assessment	Information given is based on knowledge of all the components and the toxicology of similar products

## 13. Disposal

Product Disposal	Recover and recycle if possible. Arrange for disposal via a licensed waste contractor.
Container Disposal	Dispose of containers with care. Empty packaging should be removed by a licensed waste contractor.
Local legislation	The recommendations given are considered appropriate for safe disposal. However, local regulations maybe more stringent and these must be complied with.

## 14. Transport Information

<u>Land Transport</u>	
ADR/RID	: Not dangerous goods
<u>Sea Transport</u>	
IMDG	: Not dangerous goods
<u>Air Transport</u>	
IATA/ DGR	: Not dangerous goods

## 15. Regulatory Information

Labelling according to EC Directives	EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700)
Classification	Irritant Dangerous for the environment

Symbol (s)



X - IRRITANT



N - DANGEROUS FOR THE ENVIRONMENT

Risk Phrases - R	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 - S	S24	Avoid contact with skin
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28A	After contact with skin, wash immediately with plenty of water.
	S37/39	Wear suitable gloves and eye/face protection.
	S46	If swallowed seek medical advice immediately and show this container or label.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

## 16. Other Information

Date Issued	01.03.2010
Reference	EMLWA/04
Product Code	Epoxy Products Epoxy Mortar LW (Resin - Pack A)
Intended Use	Concrete Repair Mortar.

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

# MATERIAL SAFETY DATA SHEET

## EPOXY MORTAR LIGHTWEIGHT - PACK B

### 1. Identification of the substance/preparation and company.

Product Name : Epoxy Mortar LW (Hardener - Pack B)  
Product Type : Epoxy Resin Curing Agent  
Application : Epoxy Resin Repair Mortar  
Supplier: Emergency Telephone Number: (01202) 891899  
Epoxy Products Limited, 7 Haviland Road, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ

### 2. Hazards Identification

Irritating to skin  
Risk of serious damage to eyes  
May cause sensitisation by skin contact  
Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### 3. Composition/Information on Ingredients

#### Chemical Nature

Polyaminoamide preparation

<u>Hazardous Components</u>	<u>CAS No</u>	<u>%</u>	<u>Symbols</u>	<u>R - Phrases</u>
Polyaminoamide adduct		> 90	Xi	R41
Tetraethylenepentamine (EC –No 203-986-2) 112-57-2	< 10		C, N	R21/22, R34, R43, R51/53

### 4. First-aid Measures

INGESTION : Immediately give plenty of water. If person vomits when lying on his back, place him in the recovery position. Oxygen or artificial respiration if needed. Do not induce vomiting

INHALATION : Move to fresh air. If symptoms persist seek medical advice.

SKIN CONTACT : Remove product and immediately flush affected area with water for at least 15 minutes.

EYE CONTACT : Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice immediately.

### 5. Fire-fighting Measures

#### Suitable Extinguishing Media

Water Spray, Carbon Dioxide (Co<sup>2</sup>), Dry Powder, Foam.

#### Extinguishing media which must not be used.

High volume water jet

#### Special Protective equipment for fire fighters

Wear self contained breathing apparatus and protective suit

#### Further information

Burning produces obnoxious, and toxic fumes, carbon oxides and nitrogen oxides.

### 6. Accidental Release Measures

Personal precautions : Keep away from sources of ignition. – No smoking.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapours/dust.

Environmental precautions : Prevent product from entering drains.  
Do not contaminate surface water and avoid subsoil penetration.

Methods of Clean up : Soak up with inert absorbent material and dispose of as hazardous waste

### 7. Handling and Storage

#### Handling

Advice on safe handling : Sensitizing  
Avoid formation of aerosol  
Ensure adequate ventilation  
Handle and open container with care  
Keep away from sources of ignition – No smoking

#### Storage

Further information : Keep away from food, drink and animal feeding stuffs.  
Keep containers tightly closed  
Keep at temperatures between 2 and 40<sup>0</sup> C

Hazard Class : 12, Liquids, not dangerous

### 8. Exposure Controls/Personal Protection

Respiratory Protection : Not required. under normal application conditions. In case of insufficient ventilation wear suitable equipment.

Hand Protection : Nitrile rubber gloves or any impermeable gloves must be worn.

Eye Protection : Protective glasses, goggles or face shield

Skin Protection : Protective long sleeved overalls must be worn. Safety shoes

Protective Measures : Do not breathe vapours/dust.  
Keep away from sources of ignition – No smoking  
Avoid contact with skin, eyes and clothing.

### 9. Physical and Chemical Properties

Appearance : Liquid of various colours  
Odour : Amine like

pH	:	11
Boiling Point	:	200°C
Flash Point	:	200°C
Vapour Pressure	:	<10@ 20°C
Relative Density	:	1.05
Water Solubility	:	Slightly

#### **10. Stability and Reactivity**

Conditions to avoid	:	Take necessary action to avoid static electricity discharge
Materials to avoid	:	Strong acids and strong bases. Strong oxidising agents
Hazardous Decomposition Products	:	Carbon oxides. Nitrogen oxides. Burning produces obnoxious and toxic fumes.

#### **11. Toxicological Information**

Acute oral toxicity	:	LD50 rat Dose: > 8,000 mg/kg
Eye irritation	:	Risk of serious damage to eyes (Rabbit)
Skin Irritation	:	Irritating (Rabbit –dermal)
Sensitization	:	Causes sensitisation (Guinee pig – dermal)

#### **12. Ecological Information**

Ecotoxicity effects	:	
Further information	:	Avoid sub soil penetration. From entering drains. Do not contaminate surface water.

#### **13. Disposal Considerations**

Product	:	Waste key Number : 55903
Container	:	Empty containers can be landfilled

#### **14. Transport Information**

<u>Land Transport</u>		
ADR/RID	:	Not dangerous goods
<u>Sea Transport</u>		
IMDG	:	Not dangerous goods
<u>Air Transport</u>		
IATA/ DGR	:	Not dangerous goods

#### **15. Regulatory Information**

##### **Labelling according to EEC Directive**

Symbols	:	Xi : Irritant
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R-Phrases	:	R38 Irritating to skin R41 Risk of serious damage to eyes R43 May cause sensitisation by skin contact R52/53 Harmful to aquatic organisms may cause long term adverse effects in the aquatic environment.
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S-Phrases	:	S24 Avoid contact with skin. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 Wear suitable gloves and eye face protection. S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
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Hazardous Components which must be Listed on the label	:	Polyaminoamide adduct (R41) Tetraethylenepentamine (EC-No. 203-986-2)
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#### **16. Other Information**

Date Issued	:	01.03.2010
Reference	:	SD/EMLW/B/04
Intended Use	:	Epoxy Curing Agent
Product Code	:	Epoxy Mortar LW (Pack B - Hardener)

The information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.