



1. Product Identification

Trade Name: EPIBEAR

Description: Three component epoxide resin, high strength bedding mortar.

2. Composition / Information on Ingredients

Ingredient	CAS Number	Conc. (w/w)	Classification	R. Phrases
BASE COMPONENT				
Bisphenol A/F epoxy resin	40216-08-8	>95%	Xi,N	36/38,43,51/53
HARDENER COMPONENT				
Mixed Polyamines	N/A	100%	C,N	21/22,34,43,50/53,62,63
AGGREGATE COMPONENT				
Quartz Grits	None	100%	None	None
Crystalline Silica	None	Trace	Xn	20,48

3. Hazard Identification

Base: May be irritating to the eyes and skin, and may also cause sensitisation by skin contact. The product is toxic to aquatic organisms and has the potential to cause long term damage to the aquatic environment.

Hardener: Corrosive, causes burns. Harmful in contact with skin and if swallowed and may also cause sensitisation by skin contact. Very toxic to aquatic organisms and has the potential to cause long-term adverse effects in the aquatic environment. There is a possible risk of impaired fertility and a possible risk of harm to the unborn child.

Aggregate: Possibility of dust generation when handling. The low level of crystalline silica is unlikely to present a hazard during normal conditions of use.

4. First Aid Measures

Inhalation: In case of drowsiness or sickness remove to fresh air, keep patient warm and at rest. If unconscious, turn to the recovery position. Seek medical assistance.

Skin Contact: Promptly remove contaminated clothing and wash the affected area with plenty of soap and water to ensure all traces of product are removed, then rinse thoroughly. Any contaminated clothing must be thoroughly cleaned before re-using. Seek medical advice if irritation persists.

Eye Contact: Flush with copious amounts of clean water for at least 15 minutes, with the eye lids held open. Seek medical attention.

Ingestion: Wash out mouth with water. Keep patient at rest and obtain medical attention. DO NOT INDUCE VOMITING.

5. Fire Fighting Measures

Suitable Extinguisher Media:	Water spray, alcohol-resistant foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media:	Water jet.
Exposure Hazards:	May give off toxic fumes if heated or involved in a fire, including CO.
Special Protective Equipment:	Full face, positive pressure, self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions:	Wear protective equipment as specified in Section 8. Do not eat, drink or smoke. Avoid contact with skin and eyes. Eliminate all ignition sources.
Environmental Precautions:	Eliminate all ignition sources. Keep people and animals away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewerage works inform the local water company. If spillage enters rivers or watercourses inform the Environment Agency.
Spillages:	Cordon off area. Absorb/contain spillage using inert absorbent granules, sand or earth. Transfer collected material to heavy-duty plastic/steel drums and keep in a well ventilated place for subsequent safe disposal. See Section 13.

7. Handling and Storage

Handling:	No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Sections 6 and 8 if exposure to product is possible. Wash thoroughly with soap and water before eating, drinking or smoking, and after work
Storage:	Store in original containers in a well ventilated area away from heat, ignition sources or open flame. Do not store near acids.

8. Exposure Controls / Personal Protection

Occupational Exposure Standards:	Crystalline Silica - 8 hour TWA 0.3mg/m ³ (respirable) MEL. This exposure limit must not be exceeded at any time during the exposure period. General Dust - 8 hour TWA 10mg/m ³ (total inhalable), 4mg/m ³ (respirable) OES.
Engineering Control Measures:	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and may include physical containment and good ventilation.

Respiratory Protection:	An approved respirator and filter medium for dusts should be used if engineering controls are unlikely to control exposure below the relevant exposure standards when handling the aggregate component. In the unlikely event that the quoted exposure limit for benzyl alcohol is exceeded, an approved respirator fitted with an appropriate gas cartridge (organic substance) should be used. All items must conform to EN149 and should be suitable for the levels of contamination present in the workplace.
Hand Protection:	Wear Neoprene, Nitrile, PVC or Natural Rubber gloves or gauntlets. These must be manufactured to EN374. The material breakthrough time should be stated by the glove manufacturer, and must be observed at all times.
Eye Protection:	If contact is likely chemical resistant goggles conforming to BS 2092 should be worn.
Body Protection:	Wear suitable impervious, chemical resistant overalls.
Foot Protection:	Wear chemical resistant safety footwear.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance:	Base: Clear liquid. Hardener: Amber liquid.	Boiling Point:	>200 °C
Odour:	Base: Mild Hardener: Amine-type	Vapour Pressure @ 20oC:	Base: N/D Hardener: <10mm Hg
pH:	Hardener: Alkaline	Evaporation Rate (Butyl Acetate = 1):	N/A
Flash Point:	>100oC	Flammable Limits in Air:	Upper: N/D Lower: N/D
Solubility:	Insoluble in water	Autoignition Temperature:	N/D
Flammability:	Not Flammable		
Specific Gravity:	2.1 (Mixed)		

10. Stability and Reactivity

Stability:	Stable under normal conditions (see Section 7).
Materials to Avoid:	Base: Amines and catalysts Hardener: Mineral and organic acids, oxidising agents, reactive metals and sodium or calcium hypochlorite. Slowly corrodes copper, aluminium, zinc and galvanised surfaces. Reacts violently with peroxides possibly creating an explosion. Reaction with acids is accompanied by large heat release and may be

sufficient to cause vigorous boiling, creating a hazard due to splashing or splattering of hot material.

Hazardous Decomposition Products: Ammonia and aldehydes. Oxides of carbon and nitrogen. Nitrogen oxide can react with water vapours to form corrosive nitric acid. Other oxides of nitrogen emitted on decomposition are highly toxic.

11. **Toxicological Information**

There is no data available on the product itself.

The following data applies to the Epoxy component of the Base material.

Acute Toxicity:

Eye Contact: Irritant.

Skin Contact: Irritant for skin and mucous membranes. May cause sensitisation.

Ingestion: May result in irritation to the gastro intestinal tract.

The following data applies to the Amine component of the Hardener material.

Acute Toxicity:

Eye Contact: Strong caustic effect.

Skin Contact: Caustic effect on skin and mucous membranes. May cause sensitisation.

Ingestion: Swallowing will lead to a strong caustic effect on the mouth and throat, and to the danger of perforation of the esophagus and stomach.

No specific data is available on the materials within the aggregate component.

12. **Ecological Information**

There is no data available on the product itself.

The following data applies to un-mixed material only, as once the base and hardener are combined the harmful constituents will react to form an inert product.

Hazardous for water. Do not allow the product to reach ground water, water bodies or sewage systems. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into soil.

13. **Disposal Considerations**

Un-reacted materials: Dispose of used containers and un-reacted product as hazardous waste, in accordance with all applicable local and national regulations, and in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

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14. Transport Information

Base:

UN Number:	3082	Packaging Group:	III
ROAD		AIR	
ADR Class:	Limited quantity	Air Transport Number:	9
ADR Hazard No:	in compliance with chapter 3.4 LQ7 less than 5 litres per inner package	Packaging Instruction:	914

SEA

IMDG Class: 9
IMDG Page Number: 9028
Marine Pollutant: P

Proper Shipping Name: Environmentally hazardous substance, liquid, NO.S. (contains epoxy resin)

Hardener:

UN Number:	2735	Packaging Group:	III
ROAD		AIR	
ADR Class:	Limited quantity	Air Transport Number:	8
ADR Hazard No:	in compliance with chapter 3.4 LQ19 less than 3 litre per inner package	Packaging Instruction:	820

SEA

IMDG Class: 8
Marine Pollutant: P

Proper Shipping Name: Amines, liquid, corrosive, N.O.S. (Contains mixed polyamines).

15. Regulatory Information

EU Classification and Labelling Particulars:

Base:

Designated Name: EPIBEAR - BASE

Classification: Irritant & Dangerous for the Environment - Contains epoxy constituents (see information supplied by the manufacturer).

Indication(s) of Danger: Xi & N

Contains: Epoxy constituents- see information supplied by the manufacturer.

Risk and Safety 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.
S25:	Avoid contact with eyes.
S28:	After contact with skin, wash immediately with plenty of soap and water.
S37/39:	Wear suitable gloves and eye/face protection.

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S61: Avoid release to the environment. Refer to special instructions/Safety data sheet.

Hardener:

Designated Name: EPIBEAR - HARDENER

Classification: Corrosive & Dangerous for the Environment

Indication(s) of Danger: C,N

Contains: Mixed polyamines

Risk and Safety Phrases:

R21/22: Harmful in contact with skin and if swallowed.
R34: Causes burns.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.
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.
S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
S60: This material and its container must be disposed of as hazardous waste.
S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

Aggregate:

Designated Name: EPIBEAR - AGGREGATE

Classification: Not classified as hazardous

Indication(s) of Danger: N/A

UK Guidance Publications: EH40; Occupational Exposure Limits, HSE. Revised annually.
EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE.
EH44; Dust in the Workplace: General Principles of Protection, HSE.
MDHS 14; Methods for the Determination of Respirable and Total Dusts, HSE.

UK Legislation: Health and Safety at Work, etc Act, 1974, and relevant Statutory Provisions.
Control of Substances Hazardous to Health Regulations, 1999.
The Manual Handling Operations Regulations, 1992.
The Personal Protective Equipment at Work Regulations, 1992.
Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 - CHIP 3.

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16. Other Information

Full Text of R-Phrases Referred to above:

R20:	Harmful by inhalation.
R21:	Harmful in contact with skin.
R22:	Harmful if swallowed.
R34:	Causes burns.
R36/38:	Irritating to eyes and skin.
R43:	May cause sensitisation by skin contact.
R48:	Danger of serious damage to health by prolonged exposure.
R50/53:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62:	Possible risk to impaired fertility.
R63:	Possible risk of harm to the unborn child.

Training Advice: Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.

Recommended Uses: For professional use only. This product is designed for use as an epoxy bearing mortar.

Further Information: This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. Reference was also made to the above legislation and guidance publications.

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Changes in this Version: All sections to reflect a formulation amendment.

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Disclaimer: The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request.

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