

# MATERIAL SAFETY DATA SHEET

## EPOXY MORTAR FAST CURE GRADE - PACK A

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

Product Name : Epoxy Products Epoxy Mortar FC- Pack A  
Product Type : Epoxy Resin  
Application : Epoxy Resin Floor Screed.  
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	60-70	Xi, N	R36/38, R43, R51/53
Epoxy Resin Bisphenol Type F (Mol. Wt.=<700)	28064-14-4	30-40	Xi, N	R36/38, R43, R51/53
Aliphatic glycidyl ether	68609-97-2	2.50 - 10.00	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 Liquid  
Colour Various  
Odour Slight  
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  
Density 1.80g/cm<sup>3</sup> at 20° C  
Viscosity Not applicable

### 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  
Acute Dermal Toxicity  
Eye Irritation  
Skin Irritation  
Sensitisation  
Carcinogenicity  
Mutagenicity

Expected to be of low toxicity. LD50 > 2000 mg/kg  
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Expected to be slightly irritant.  
Expected to be slightly irritant.  
Expected to be a skin sensitiser.  
Not expected to be carcinogenic.  
Not considered to be a mutagenic hazard.

## 12. Ecological Information

### Persistence/Degradability

Biodegradable  
Bioaccumulation

This product is expected to be not readily biodegradable.  
Has the potential to bioaccumulate.

### Ecotoxicity Effects

Toxicity to fish  
Toxicity to algae  
Acute toxicity to invertebrates  
Mobility  
Sewage treatment  
Basis for assessment

Expected to be very toxic. LC/EC/IC 50 > 1 mg/l  
Expected to be toxic 1. LC/EC/IC 50 > 10 mg/l  
Expected to be toxic 1. LC/EC/IC 50 > 10 mg/l  
The product is insoluble in water and sinks in water.  
Expected to be practically non toxic 1. LC/EC/IC 50 > 100 mg/l  
Information given is based on knowledge of all the components and the toxicology of similar products

## 13. Disposal

Product Disposal  
Container Disposal  
Local legislation

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

## 14. Transport Information

This product is not covered by international regulation on the transport of dangerous goods. (IMDG, IATA, ADR/RID)

## 15. Regulatory Information

Labelling according to EC Directives  
Classification

EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT < 700)  
Irritant  
Dangerous for the environment

Symbol (s)



X – IRRITANT



N - DANGEROUS FOR THE ENVIRONMENT

Risk Phrases - R

R36/38  
R43  
R51/53

Irritating to eyes and skin  
May cause sensitisation by skin contact.  
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

Safety Phrases - S

S24  
S26  
  
S28A  
S37/39  
S46  
S61

Avoid contact with skin  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
After contact with skin, wash immediately with plenty of water.  
Wear suitable gloves and eye/face protection.  
If swallowed seek medical advice immediately and show this container or label.  
Avoid release to the environment. Refer to special instructions/safety data sheet.

## Notification Status

TSCA  
AICS  
DSL  
IECSC  
EINECS  
KECI (KR)  
PICCS (PH)

All components listed  
All components listed  
All components listed  
All components listed  
All components listed or polymer exempt  
All components listed  
All components listed

## 16. Other Information

Date Issued  
Reference  
Product Code  
Intended Use

07.12.2008  
EMA/03  
Epoxy Products Epoxy Mortar FC (Resin - Pack A)  
Epoxy Resin floor screed.

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 FAST CURE - PACK B

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

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

### **2. Hazards Identification**

Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Classification Xn R21/22 Rep 3; R62, R63, C; R34, R43. N; R50/53

### **3. Composition/Information on Ingredients**

	%	Classification
2-PIPERAZINE-1-YLETHLAMINE	>30	C: R34, Xn R21/22, R43, R52/53
NONYLPHENOL	<30	Repr. Cat. 3; R62, R63 C: R34, Xn: R22 N: R50/53

### **4. First-aid Measures**

#### **(a) INHALATION:**

When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops provide artificial respiration. Move the patient at once to fresh air. Get medical attention..

#### **(b) INGESTION**

Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit does not enter the lungs.

#### **(b) SKIN CONTACT**

Remove contaminated clothing immediately and wash skin with soap and water. Important to remove the substance from the skin immediately. Rinse with water. Contact physician if discomfort continues.

#### **(c) EYE CONTACT**

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice, preferably an eye specialist.

### **5. Fire-fighting Measures**

#### **SUITABLE EXTINGUISHING MEDIA**

Ignition will give rise to a Class B fire. In case of fire use : Water Spray, Carbon Dioxide (Co<sup>2</sup>), Dry Chemical Alcohol Foam.

#### **SPECIAL EXPOSURE HAZARDS (FIRE FIGHTING)**

May generate toxic gases. Carbon Monoxide (CO). Carbon Dioxide (CO<sub>2</sub>) Nitrous gases.

#### **SPECIAL FIRE FIGHTING PROCEDURES**

Keep upwind to avoid fumes. Keep run off water out of sewers and water sources. Dike for water control.

### **6. Accidental Release Measures**

#### **PERSONAL PRECAUTIONS**

Wear protective clothing, boots, gloves and eye protection.

#### **ENVIRONMENTAL PRECAUTIONS**

Do not discharge into drains, water courses or into the ground. Contain spillages with sand, dry earth or any other suitable absorbent material.

#### **SPILL CLEAN UP METHODS**

Stop leak if possible without risk. Place into containers.

### **7. Handling and Storage**

#### **USEAGE PRECAUTIONS**

Avoid inhalation of vapours and contact with skin and eyes.

#### **STORAGE PRECAUTIONS**

Store in tightly closed original containers in a dry, cool and well ventilated place. Store away from acids

### **8. Exposure Controls/Personal Protection**

- a) Respiratory Protection : Not required under normal conditions in well ventilated workplace
- b) Hand Protection : Nitrile rubber gloves or any impermeable gloves must be worn.
- c) Eye Protection : Protective glasses or goggles
- d) Skin Protection : Protective long sleeved overalls must be worn.

### **9. Physical and Chemical Properties**

Appearance : Wet sand, ammoniacal smell  
Colour : Amber  
Odour : Ammonia  
pH : Alkaline  
Flash Point : >100°C  
Vapour Pressure : (mm Hg) < 0.1 @ 21°C  
Water Solubility : <0.1g/l

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

#### **STABILITY**

Stable under normal temperatures and conditions

#### **MATERIALS TO AVOID**

Strong oxidising substances. Organic peroxides. Strong alkalis. Acids- organic. Chemically reactive metals.

#### **HAZARDOUS DECOMPOSITION PRODUCTS**

Ammonia or amines. Carbon Monoxide, Carbon Dioxide, Nitric Acid, Nitrous gases. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 11. Toxicological Information

TOXIC DOSE 1 – LD50 1620mg/kg (oral rat)

#### INHALATION

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

#### INGESTION

Harmful if swallowed. Nausea, vomiting. Diarrhoea. Headache. May cause chemical burns in mouth, oesophagus and stomach.

#### SKIN CONTACT

May cause sensitisation by skin contact. May be absorbed through the skin. May cause nausea, headache, dizziness and intoxication. Causes burns.

#### EYE CONTACT

Irritating and may cause redness and pain. Risk of corneal damage. Visual disturbances including blurred vision. Causes burns.

### 12. Ecological Information

#### ECOTOXICITY

This product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### MOBILITY

This product is insoluble in water.

#### BIOACCUMULATION

May accumulate in soil and water systems.

#### WATER HAZARD CLASSIFICATION

##### Wgk 3

Name	NONYLPHENOL
LC50, 96 Hours, Fish mg/l	0.128
EC50, 48 Hours, DAPHNIA, mg/l	0.0848
Biocummulation potential	May accumulate in soil and water systems.

### 13. Disposal Considerations

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

### 14. Transport Information

UK ROAD CLASS 8  
PROPER SHIPPING NAME AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethyl)piperazin, 1- (2- (AEP), Nonylphenol

UN NO ROAD	2735	UK ROAD PACK GR	111
ADR CLASS NO	8	ADR CLASS CLASS	8: Corrosive Substance
ADR PACK GROUP	111	HAZARD No (ADR)	80
ADR LABEL No	8	HAZCHEM CODE	2X
CEFIC TEC (R) No	80 gc7-11+111	RID CLASS	8
RID PACK GROUP	111	UN NO SEA	2735
IMDG CLASS	8	IMDG PACK GR	111
UN AIR NO	2735	AIR CLASS	8
AIR PACK GR	111		
MARRINE POLLUTANT?	YES		

### 15. Regulatory Information

#### Labelling



**CORROSIVE**



**DANGEROUS FOR THE ENVIRONMENT**

CONTAINS 2-PIPERZIN-1-YLETHYLAMINE  
NONYLPHENOL

Risk Phrases - R	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
Safety Phrases - S	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 label where possible)
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

### 16. Other Information

Date Issued : 01/02/2009  
Reference : SD/EMFC/B/03  
Intended Use : Epoxy Curing Agent  
Product Code : Epoxy Mortar Fast Cure (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.