

MATERIAL SAFETY DATA SHEET

PATCHING MORTAR FINE GRADE - PACK A

1. Identification of the substance/preparation and company.

Product Name : Epoxy Patching Mortar Fine Grade - Pack A
Product Type : Epoxy Resin
Application : Concrete repair compound
Supplier : Emergency Telephone Number: (01202) 891899
Epoxy Products Limited, 7 Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England

2. Hazards Identification

Physical Hazard : None-classifiable
Health Hazard : Irritant (Xi)
Irritating to eyes and skin. (R36/38)
May cause sensitisation by skin contact. (R43)

3. Composition/Information on Ingredients

3.1. Composition

Modified Liquid Bisphenol A/F-Epichlorohydrin Epoxide Resin.

3.2. Information on Ingredients

The ingredients listed below have been associated with one or more of the listed immediate and/or delayed (*) health hazards. Risk of damage and effects depends upon duration and level of exposure.

<u>CAS/Registry No.</u>	<u>Material Description</u>	<u>% Content</u>
25068-38-6	*4,4'-ISOPROPYLDINEDIPHENOL-EPICHLOROHYDRIN COPOLYMER Physical Hazard: Non-classifiable Health Hazard: Irritant (Xi) Irritating to eyes. (R36) Irritating to skin. (R38) May cause sensitisation by skin contact. (R43) Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. (R51/53) OEL: None Established	35-50
55492-52-9	*BISPHENOL F-EPICHLOROHYDRIN COPOLYMER Physical Hazard: Non-classifiable Health Hazard: Irritant (Xi) Irritating to eyes. (R36) Irritating to skin. (R38) May cause sensitisation by skin contact. (R43) Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. (R51/53) OEL: None Established	35-50

4. First-aid Measures

Ingestion : If accidentally swallowed, give large quantities of water or milk or dilute the effects on the stomach. Do not induce vomiting. Seek medical advice.
Inhalation : If inhalation causes adverse effects, remove to fresh air. If problem persists, seek medical advice.
Skin Contact : In case of contact, immediately flush with plenty of water, remove contaminated clothing. Seek medical attention.
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 immediately medical attention.

5. Fire-fighting Measures

Non-flammable at room temperature, but will burn. In case of fire, use water spray, dry chemical, foam or carbon dioxide extinguishers. Use water to keep fire-exposed containers cool. For large fires, fire-fighters should wear full emergency protective equipment including self-contained breathing apparatus.

6. Accidental Release Measures

Always wear appropriate protective clothing (refer to Section 8.2).

7. Handling and Storage

7.1. Handling

Handle in accordance with good industrial hygiene and safety practices. Refer to Section 8 for appropriate personal protection equipment. Wash thoroughly after handling.

Inhalation : Avoid prolonged or repeated breathing of vapour.
Skin Contact : Avoid contact with skin or clothing.
Eyes : Avoid contact with eyes.

7.2. Storage

Keep in tightly sealed containers and store in a cool dry place avoiding exposure to heat, light, moisture and air.

8. Exposure Controls/Personal Protection

8.1. Personal Protection

Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and Chemical Properties

Appearance	Pale yellow liquid, slightly sweet odour
Boiling Point	>150° C
Flammability	Combustible
Vapour Pressure	<0.1 mbar at 20° C
Relative Density	1.70g/cm ³ at 25° C
Water Solubility	Not miscible
Fat Solubility	Not determined
Partition Coefficient	Not determined
Viscosity	Not applicable

10. Stability and Reactivity

Normally considered stable and inert.

Hazardous polymerisation:

Materials to avoid:

Conditions to avoid:

Thermal decomposition

products may include:

Other Hazards:

Will not occur.

Mineral acids, bases, amines and mercaptans.

None known to Epoxy Products Ltd.

Oxides of carbon.

None known to Epoxy Products Ltd.

11. Toxicological Information

11.1 Immediate Hazards

Ingestion	: May be harmful if accidentally swallowed.
Inhalation	: Not considered to be harmful under normal conditions of use.
Skin	: Irritating to skin.
Eyes	: Irritating to eyes.

11.2. Delayed Hazards

25068-38-6

*4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER

May cause sensitisation by skin contact.

55492-52-9

*BISPHENOL F-EPICHLOROHYDRIN COPOLYMER

May cause sensitisation by skin contact.

12. Ecological Information

Mobility:	Not determined.
Degradability:	Not determined.
Bio-accumulative potential:	Not determined.
Aquatic toxicity:	Toxicity to bacteria, algae and higher marine organisms not tested. COD: Not determined.

13. Disposal Considerations

DO NOT reuse containers containing residual product without thorough cleaning. All waste should be disposed of using a Registered Waste Carrier operating under the Environmental Protection Act (Duty of Care) Regulations 1992. (S.I. No 2839).

14. Transport Information

UK Supply Classification (Xi) Irritant

15. Regulatory Information



DANGEROUS FOR THE ENVIRONMENT



HARMFUL /IRRITANT

EC Label name	: Contains Epoxy Resin (number average molecular weight <700)
EC Classification	: Harmful/Irritant. Dangerous for the environment.
EC Symbols	: Xi, N
EC 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 and water. S37/39 Wear suitable gloves and eye/face protection. S61 Avoid release to the environment.

16. Other Information

Date Issued	: 1.03.2008
Reference	: SD/ PMFG/A/03
Intended Use	: Epoxy resin repair compound.
Product Code	: Epoxy Patching Mortar Fine Grade (Resin - Pack A)

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

PATCHING MORTAR FINE GRADE - PACK B

1. Identification of the substance/preparation and company.

Product Name : Patching Mortar Fine Grade (Hardener - Pack B)
Product Type : Epoxy Resin Curing Agent
Application : Hardener Component for Resin Pack A
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 (Co²), Dry Chemical Alcohol Foam.

SPECIAL EXPOSURE HAZARDS (FIRE FIGHTING)

May generate toxic gases. Carbon Monoxide (CO). Carbon Dioxide (CO₂) 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	UK ROAD PACK GR	111
PROPER SHIPPING NAME	AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethyl)piperazin, 1- (2- (AEP), Nonylphenol		
UN NO ROAD	2735	ADR CLASS CLASS	8: Corrosive Substance
ADR CLASS NO	8	HAZARD No (ADR)	80
ADR PACK GROUP	111	HAZCHEM CODE	2X
ADR LABEL No	8	RID CLASS	8
CEFIC TEC (R) No	80 gc7-11+111	UN NO SEA	2735
RID PACK GROUP	111	IMDG PACK GR	111
IMDG CLASS	8	AIR CLASS	8
UN AIR NO	2735		
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 R34 R43 R50/53	Harmful in contact with skin and if swallowed. Causes burns May cause sensitisation by skin contact Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment
Safety Phrases - S	R62 R63 S26 S36/37/39 S45 S61	Possible risk of impaired fertility Possible risk of harm to the unborn child In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) Avoid release to the environment. Refer to special instructions/safety data sheet.

16. Other Information

Date Issued : 01/02/2009
Reference : SD/PMFC/B/03
Intended Use : Epoxy Curing Agent
Product Code : Patching 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.