

MATERIAL SAFETY DATA SHEET

EPOXY POINTING MORTAR

PACK A (Base Resin)

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Pointing Mortar - Pack A
Application : Epoxy Resin
Supplier : Epoxy Products Limited, Unit 7 Ferndown Ind. Estate, Wimborne, Dorset. BH21 7RZ England
Emergency Contact Number : 01202 891899
E-Mail : sales@epoxyproducts.co.uk

2. Composition/Information on Ingredients

Chemical Nature Mixture of epoxy resins and a reactive diluent

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

3. 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.

4. First-Aid Measures

Eye Contact **Do not delay** 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. Medical attention.
Skin Contact **Do not delay.** Wash skin thoroughly with soap and water.
Ingestion Do not. Induce vomiting. Seek immediate medical attention.
Inhalation No specific measures

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 during Fire Not classified as flammable but will burn. 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.

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 required
Hand Protection Butyl, nitrile PVC type gloves or any impermeable gloves must be worn.
Eye Protection Safety eye glasses or goggles must be worn.
Skin and Body Protection Standard issue work clothes.

9. Physical and Chemical Properties

Physical State Damp sand
Colour Various
Odour Slight
Flash Point >150°C
Auto Ignition Temperature >400°C
Water Solubility Negligible
Density 2.00/cm³ at 20°C

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. LD50 > 2000 mg/kg
Acute Dermal Toxicity Expected to be of low toxicity. LD50 > 2000 mg/kg
Eye Irritation Expected to be slightly irritant.
Skin Irritation Expected to be slightly irritant.
Sensitisation Expected to be a skin sensitiser.

12. Ecological Information

Persistence/Degradability

Biodegradable

This product is expected to be not readily biodegradable.

Bioaccumulation

Has the potential to bioaccumulate.

Ecotoxicity Effects

Toxicity to fish

Expected to be toxic. 1 < LC/EC/IC 50 > 10 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

Sinks in water.

Sewage treatment

Expected to be practically non toxic 1. LC/EC/IC 50 > 100 mg/l

13. Disposal

Product Disposal

Recover and recycle if possible. Arrange for disposal via a licensed waste contractor.

Container Disposal

Dispose of containers with care.

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

Land Transport ADR / RID

Not regulated

Air Transport ICAO-TI / IATA-DGR

Not regulated

Maritime Transport IMDG / GGVSea

Not regulated

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

19.03.2015

Reference

EPM/A/01

Product Code

Epoxy Pointing Mortar (Base Resin - Pack A)

Intended Use

Block paving , concrete slab and brick pointing 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 POINTING MORTAR

PACK B (Base Hardener)

1. Identification of the substance/preparation and company.

Product Name	Epoxy Products Epoxy Pointing Mortar - Pack B
Application	Epoxy Curing Agent
Supplier	Epoxy Products Limited, Unit 7 Ferndown Ind. Estate, Wimborne, Dorset. BH21 7RZ England
Emergency Contact Number	01202 891899
E-Mail	sales@epoxyproducts.co.uk

2. Composition/Information on Ingredients

Substance/Preparation Components	Preparation EINECS / ELINCS Number	CAS Number	Concentration	Classification
4,4'-Methylenebis (cyclohexylamine)	217-168-8	1761-71-3	<1%	C; N R53,R51,R35; R22
Benzyl Alcohol	202-859-9	100-51-6	<1%	Xn; R20/22
Methyleneoxide, polymer with Benzenamine, hydrogenated		135108=88-2	<1%	C; Xn; R34;R22

3. Hazards Identification

Classification:

R20/22

R52/53

R41

Xn Harmful

Harmful by inhalation and if swallowed

Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Risk of serious damage to eyes.

Emergency Overview

Severe eye irritant

Mild skin irritant

Risk of serious damage to eyes

Harmful if swallowed

Harmful in contact with skin

Potential Health Effects

Inhalation

May cause central nervous system effects, such as headache, nausea and dizziness.

Eye Contact

Severe eye irritation

Skin Contact

If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Mild skin irritation

Ingestion

Harmful if swallowed

Chronic Health Hazard

This product contains no listed carcinogens according to Directive 67/548/EEC, IARC, ACGIH and/or NTP in concentrations of 0.1% or greater.

Aggravated Medical Condition

Neurological disorders.

Eye disease

Skin disorders and allergies

Target Organs

Eyes

4. first-aid Measures

General Advice

Seek medical advice. If breathing has stopped or is laboured, give assisted respirations. Supplemental oxygen maybe indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.

Eye Contact

Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin Contact

Wash off immediately with plenty of water for at least 20 minutes. Wash off with soap and water. Immediately remove contaminated clothing and any extraneous chemical, if possible to do so without delay.

Ingestion

Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victims head to the side.

Inhalation

Move to fresh air

5. Fire-fighting Measures

Suitable Extinguishing Media

Alcohol resistant foam.

Carbon dioxide (CO2)

Dry chemical

Dry sand

Limestone powder

Specific Hazards

Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Special protective equipment for fire fighters

Avoid contact with the skin. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

Personal precautions

Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions

Construct a dike to prevent spreading

Methods of cleaning up

Approach suspected leak areas with caution. Place in appropriate chemical waste container.

Additional advice

If possible, stop flow of product.

7. Handling and Storage

Handling

Eye wash station should be readily available. Adhere to work practise rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke

Storage

Keep away from acids and alkalis. Keep containers tightly closed in a dry, cool place.

8. Exposure Controls/Personal Protection

Engineering measures

Provide readily accessible eye wash stations

Personal Protective Equipment

Hand Protection	:	Butyl rubber, Nitrile rubber, Neoprene gloves, PVC disposable gloves or impervious gloves
Eye Protection	:	Chemically resistant eye goggles must be worn
Skin and body protection	:	Long sleeved overalls must be worn.
Environmental exposure controls	:	Construct a dike to prevent spreading
Special instructions for protection	:	Discard contaminated clothing. Provide readily accessible eye wash stations and safety showers.

9. Physical and Chemical Properties

Form	:	Liquid
Colour	:	Amber
Odour	:	Ammoniacal
pH	:	Alkaline
Flammability	:	Not applicable
Water Solubility	:	Slightly

10. Stability and Reactivity

Stability

Stable under normal conditions

Materials To Avoid

Amines. Incompatible with bases. Reducing agents. Reactive metals(e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.

Caution : N-Nitrosamines, many of which are known to be potent carcinogens, maybe formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitrosating agents. Organic acids (i.e. acetic acid, citric acid etc.)

Mineral acids, sodium hypochlorite.

HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia. Nitric acid. Nitrogen oxides Carbon monoxide. Carbon dioxide. Aldehydes. Flammable hydrocarbon fragments. Nitrosamine. Organic vapours

11. Toxicological Information

Toxic Dose	LD50 : 1,200mg/kg (species : oral/rat)
Inhalation	No data is available on the product itself.
Skin	Irritating to skin
Eye Contact	Severe eye irritation. Irritation based on estimates
Acute dermal irritation/corrosion	Mild skin irritant to the skin of a rabbit.
Sensitization	May cause sensitization of susceptible persons by skin contact

12. Ecological Information

Ecotoxicity effects

No data is available on the product itself.

Persistence and Degradability

Mobility	No data available
Bioaccumulation	No data is available on the product itself.
Bioaccumulation – Components	
Benzyl alcohol	Low bioaccumulation potential
Methyleneoxide, polymer with Benzenamine, hydrogenated	Does not bioaccumulate

13. Disposal Considerations

Dispose of in accordance with local and national regulations.

14. Transport Information

ADR	:	Not dangerous goods
IATA	:	Not dangerous goods
IMDG	:	Not dangerous goods
RID	:	Not dangerous goods

15.Regulatory Information



HARMFUL

Hazard Symbol	:	Xn. Harmful
Risk phrases	:	R20/22 Harmful by inhalation and if swallowed. R52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment R41 Risk of serious damage to eyes
Safety phrases	:	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

16. Other Information

Date Issued	20.03.2015
Reference	EPM/B/01
Product Code	Epoxy Pointing Mortar(Hardener - Pack B)
Intended Use	Block paving, concrete slab and brick pointing mortar.

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