

# MATERIAL SAFETY DATA SHEET

## EPOXY SEALER - PACK A

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

Product Name : Epoxy Products Epoxy Sealer - Pack A  
Product Type : Epoxy Resin  
Application : Epoxy Resin Floor Sealer.  
Supplier : Telephone Number: (01202) 891899  
Epoxy Products Limited, 7 Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England

### 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  
Water Solubility Negligible  
Density 1.80g/cm<sup>3</sup> at 20° C

## 10. Stability and Reactivity

Conditions to avoid  
Materials to avoid  
Hazardous Decomposition Products  
Hazardous Reactions

Caustic soda can induce vigorous polymerisation at temperatures around 200°C.  
Strong oxidising agents. Caustic soda.  
Hazardous decomposition products are not expected to form during normal storage.  
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  
Expected to be of low toxicity. LD50 > 2000 mg/kg  
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  
Ecotoxicity Effects

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

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

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.

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

### ADR / RID

UN Number  
Class  
Classification Code  
Packaging Group  
Labelling Number  
Risk Number  
Description of the goods contains

3082  
9  
M6  
111  
9  
90  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

### ICAO / IATA-DGR

UN Number  
Class  
Packaging Group  
Proper Shipping Name

3082  
9  
111  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

### IMDG

UN Number  
Class  
Packaging Group  
Labelling Number  
Description of the goods contains

3082  
9  
111  
9  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

## 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	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.

**Notification Status**

TSCA	All components listed
AICS	All components listed
DSL	All components listed
IECSC	All components listed
EINECS	All components listed or polymer exempt
KECI (KR)	All components listed
PICCS (PH)	All components listed

**16. Other Information**

Date Issued	21.01.2015
Reference	ESA/06
Product Code	Epoxy Products Epoxy Sealer (Resin - Pack A)
Intended Use	Epoxy Resin floor Sealer.

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 SEALER - PACK B

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

Product Name : Epoxy Products Epoxy Sealer (Hardener - Pack B)  
Product Type : Epoxy Resin Curing Agent  
Application : Concrete Floor Sealer  
Supplier: Emergency Telephone Number: (01202) 891899  
Epoxy Products Limited, Unit 7 Haviland Rd, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ

### 2. Hazards Identification

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

### 3. Composition/Information on Ingredients

Substance/Preparation	Preparation			
Components	EINECS / ELINCS Number	CAS Number	Concentration	Classification
4,4'-Methylenebis (cyclohexylamine)	217-168-8	1761-71-3	1-5%	Xn; R22, C; R35, N R51,R53
Benzyl Alcohol	202-859-9	100-51-6	25% - 50%	Xn; R20/22
Methyleneoxide, polymer with Benzenamine, hydrogenated		135108=88-2	25% - 50%	Xn; R22, C;R34

### 4. first-aid Measures

Inhalation Move to fresh air. Get medical advice  
Eye Contact Rinse immediately with plenty of water also under the eyelids for at least 15 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.

### 5. Fire-fighting Measures

Extinguishing Media Alcohol resistant foam. Carbon dioxide (CO2) Dry chemical Dry sand Limestone powder  
Specific Hazards Ammonia or amines. Oxides of Carbon, Nitrogen  
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  
Spill Clean Up Methods Absorb with inert, damp, non combustible material, then flush with water. Collect spillages in containers, seal securely and deliver for disposal according to local regulations

### 7. Handling and Storage

Usage Precautions Avoid spilling, contact with skin and eyes. Use personal protective equipment.  
Storage Precautions Keep containers tightly closed.

### 8. Exposure Controls/Personal Protection

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.

### 9. Physical and Chemical Properties

Form Liquid  
Colour Amber  
Odour Ammonia  
pH >7  
Boiling Point/Range 222°C (432F)  
Flash Point 103°C (219F) (Closed Cup Method)  
Flammability Not applicable  
Relative Density 1.06  
Water Solubility Slightly

### 10. Stability and Reactivity

Stability Stable under normal conditions  
Conditions to Avoid Avoid excessive heat for prolonged periods of time.  
Materials To Avoid Strong reducing agents. Strong alkalis. Strong oxidising agents.  
Hazardous Decomposition Products Ammonia or amines. Oxides of Carbon and Nitrogen

### 11. Toxicological Information

Toxic Dose 1 -LD 50 1200 mg/kg (oral rat)  
Ingestion Harmful if swallowed  
Inhalation Vapours may irritate throat and respiratory system and cause headache, dizziness and dullness.  
Skin Contact Irritating to skin  
Eye Contact Risk of serious damage to eyes.  
Target Organs Eyes. Central nervous system

## **12. Ecological Information**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can be harmful or damaging effect on the environment.

## **13. Disposal Considerations**

Dispose of in accordance with local and national regulations. For example, in the UK regulations made under the Control of Pollution Act 1974 and the Environmental Protection Act 1990. Wear protective clothing during disposal operations. If disposal is by a waste contractor, make sure that he has sufficient information and that waste containers are properly labelled.

## **14. Transport Information**

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

## **15. Regulatory Information**



### **Harmful Contains**

4,4 Methylenebis (cyclohexylamine)  
Benzyl Alcohol  
Formaldehyde, polymer with benzeneamine, hydrogenated

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

**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 immediately (show label where possible)  
S60 This material and its container must be disposed of as hazardous waste

## **16. Other Information**

Date Issued : 21.01.2015  
Reference : SD/ ES/B/06  
Intended Use : Epoxy Resin Curing Agent  
Product Code : Epoxy Products Epoxy Sealer (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.