

# MATERIAL SAFETY DATA SHEET

## EPOXY SAFETY SEALER - PACK A

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

Product Name : Epoxy Products Epoxy Safety 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  
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	25-30	Xi, N	R36/38, R43, R51/53
Epoxy Resin Bisphenol Type F (Mol. Wt.=<700)	28064-14-4	10-15	Xi, N	R36/38, R43, R51/53
Aliphatic glycidyl ether	68609-97-2	5 – 10	Xi,	R38, R43

### 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 Clear  
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  
 Hazardous Decomposition Products  
 Hazardous Reactions

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 Potential

No evidence of 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**

**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 EU Regulations  
 Classification

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

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.

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	01.02.2010
Reference	ESA/02
Product Code	Epoxy Products Epoxy Safety Sealer (Resin - Pack A)
Intended Use	Epoxy Resin Anti Slip floor Seal.

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 SAFETY SEALER - PACK B

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

Product Name : Epoxy Products Epoxy Safety 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**

#### **Hazard Designation**

Causes severe burns. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.  
Harmful by inhalation and if swallowed.  
Classification : C ; R35 . R43 . R52/53 . Xn ; R20/22 Xi ; R37

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

#### **Chemical Characterisation**

Hardener based on amines for epoxy resin.

#### **Hazardous Components**

MANICH BASE BASED ON MXDA AND P.-TERT-BUTYLPHENOL

Percentage : > 25 - < 50%

Classification: C; R35, R43, R52/53, Xn ; R20/22

ALPHA, ALPHA-DIAMINO-M-XYLENE; EC-No 216-032-5; Cas-No 1477-55-0

Percentage : > 25 - < 50%

Classification: C; R35, R43, R52/53, Xn ; R20/22

BUTYLPHENOL(PARA-TERT); EC-No 202-679-0; Cas-No 98-54-4

Percentage : > 20 - < 25%

Classification: N; R51/53 Xi; R36/37/38

TRIMETHYLHEXAMETHYLEN DIAMINE; EC-No 247-134-8; CAS-No 25620-58-0

Percentage : > 10 - < 25%

Classification: C; R34, R43, R52/53, Xn ; R20/22

For the wording of the listed risk phrases refer to section 16

### **4. first-aid Measures**

General : Immediately remove all contaminated clothing  
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 : Drink plenty of water. Call for medical attention.  
Inhalation : Move to fresh air. Call for medical attention.

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

#### **Suitable Extinguishing Media**

Alcohol resistant foam.

Carbon dioxide (CO2)

Dry chemical

Dry sand

#### **Unsuitable Extinguishing Media**

Water jet

#### **Special Protective Equipment**

When extinguishing fires, use breathing apparatus with an independent source of air.

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

Personal precautions : Wear suitable protective clothing, gloves and eye/face protection. Use self contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.  
Environmental precautions : Construct a dike to prevent spreading. Do not empty into drains.  
Methods of cleaning up : Approach suspected leak areas with caution. Place in appropriate chemical waste container.

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

Safe Handling : Normal precautions taken when handling chemicals should be observed. Store containers tightly closed in a cool well ventilated place.  
Protection against explosion and fires : No anti-explosion measures are necessary

### **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.  
Special instructions for protection : Discard contaminated clothing. Provide readily accessible eye wash stations and safety showers. Wash at the end of the workshift and before eating, smoking or using the toilet.

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

Form : Liquid  
Colour : Colourless

Odour	:	Amine
pH	:	Alkaline
Boiling Point/Range	:	230°C
Flash Point	:	140°C
Vapour Pressure	:	5 Hpa @ 50°C
Relative Density	:	1.05

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

#### **Stability**

#### **Conditions to Avoid**

None, if handled correctly.

#### **Materials to Avoid**

Keep away from oxidising agents, strong alkaline and strong acid materials in order to avoid exothermic reactions.

#### **Hazardous Decomposition Product**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and carbon dioxide, smoke and oxides of nitrogen.

### **11. Toxicological Information**

Toxicological tests

Primary irritant effect

Impact on skin: burning. Impact on eyes: burning

### **12. Ecological Information**

General Ecological Information

Do not empty into waters or drains.

### **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**

#### **LAND TRANSPORT - ADR / RID**

UN Number	2735
Class	8
Classification Code	C7
Packaging Group	11
Labelling Number	8
Proper Shipping Name	AMINE, LIQUID, CORROSIVE, N.O.S.
Hazardous Components	ALPHA,ALPHA-DIAMINO-M-XYLENE . BUTYLPHENOL (PARA-TERT)

#### **MARITIME TRANSPORT – IMDG/ GGV SEA**

#### **ICAO / IATA-DGR**

UN Number	2735
IMDG Code	8
Marine Poll	P - LQ 1
Ems Number	F-A/ S-B
Packaging Group	11
Proper Shipping Name	AMINE, LIQUID, CORROSIVE, N.O.S.
Hazardous Components	ALPHA,ALPHA-DIAMINO-M-XYLENE . BUTYLPHENOL (PARA-TERT)

#### **AIR TRANSPORT – ICAO – TI and IATA - DGR**

UN Number	2735
Class	8
Packaging Group	11
Proper Shipping Name	AMINE, LIQUID, CORROSIVE, N.O.S.
Hazardous Components	ALPHA,ALPHA-DIAMINO-M-XYLENE . BUTYLPHENOL (PARA-TERT)
Label	8

### **15. Regulatory Information**

Classification according to EC Directives

Symbol



**C ; CORROSIVE**

Risk Phrases	R35	Causes severe burns
	R43	May cause sensitisation by skin contact.
	R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
	R20/22	Harmful by inhalation and if swallowed
	R37	Irritating to respiratory system

Safety Phrases	S61	Avoid release to the environment. Refer to special instructions.
	S35	This material and its container must be disposed of in a safe way.
	S51	Use only in well ventilated areas
	S36/37/39	Wear suitable protective clothing, gloves, and eye/face protection.
	S28	After skin contact, wash immediately with plenty of soap and water
S45	In case of accident or if unwell, seek medical advice immediately. (Show label where possible)	

**16. Other Information**

Date Issued	:	01.10.2010
Reference	:	SD/ ESS/B/03
Intended Use	:	Epoxy Resin Curing Agent
Product Code	:	Epoxy Products Epoxy Safety Sealer (Pack B - Hardener)

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