

MATERIAL SAFETY DATA SHEET

EPOXY FILLER - PACK A

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Filler - Pack A
Product Type : Epoxy Resin
Application : Epoxy resin based repair compound.
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 R51/53	68609-97-2	2.50 - 10.00	Xi, N	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 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/cm³ 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
 Toxicity to fish
 Toxicity to algae
 Acute toxicity to invertebrates
 Mobility
 Sewage treatment
 Basis for assessment

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

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.

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	04.06.2008
Reference	EFA/03
Product Code	Epoxy Products Epoxy Filler (Resin - Pack A)
Intended Use	Epoxy resin floor repair compound.

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 FILLER PACK B

1. Identification of the substance/preparation and company.

Product Name : Epoxy Filler (Hardener - Pack B)
Product Type : Epoxy Resin Curing Agent
Application : Epoxy resin jointing and adhesive
Supplier: Emergency Telephone Number: (01202) 891899
Epoxy Products Limited, 7 Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England

2. Hazards Identification

Harmful by Inhalation and if swallowed (R20/22). May cause sensitisation by skin contact (R43).

3. Composition/Information on Ingredients

CAS Number and Chemical Name	%	Classification
100-51-6 Benzyl Alcohol	> 45	Xn; R20/22

Description : Polyamine Epoxy Resin Curing Agent

4. first-aid Measures

INGESTION : If swallowed seek medical advice immediately. Induce vomiting or remove stomach contents by gastric suction only as directed by Medical personnel.

INHALATION : Move patient to fresh air. If breathing has stopped or is laboured give assisted respiration (e.g. mouth to mouth). Supplemented oxygen may be indicated. Seek medical advice. Assure mucus does not obstruct airway.
Prevent aspiration of vomit. Turn victim's head to one side.

SKIN CONTACT : Remove product and immediately flush affected area with water for at least 15 minutes.

EYE CONTACT : Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice immediately.

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.

6. Accidental Release Measures

7. Handling and Storage

Handling : Avoid contact with eyes. Avoid breathing vapours.

Storage : Keep away from acids, Epoxy Resins, heat and oxidizers. Protect containers from physical damage.

8. Exposure Controls/Personal Protection

100-51-6 TWA Values : Not established

8.2. Personal Protection

a) Respiratory Protection : Not required.

b) Hand Protection : Nitrile rubber gloves or any impermeable gloves must be worn.

c) Eye Protection : Safety glasses

d) Skin Protection : Protective long sleeved overalls must be worn.

9. Physical and Chemical Properties

Appearance : Various

Odour : Ammoniacal

pH : Alkaline

Boiling Point : 222C (432F)

Flash Point : 103C (219F) (Closed Cup Method)

Flammability : Not applicable

Auto-ignition Temperature : No data

Explosive Limits : No data

Vapour Pressure : 13 @ 54C (130F)

Relative Density : 1.80

Water Solubility : Slightly

Partition Coefficient : n-Octanol/Water: not applicable

10. Stability and Reactivity

Oxidizing Agents (i.e. perchlorates, nitrates etc.). A reaction accompanied by large heat release occurs when the product is mixed with acids or Epoxy Resins. Heat generated may be sufficient to cause a hazard due to splashing of hot material.

HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia when heated. Carbon Monoxide in a fire. Carbon Dioxide in a fire. Nitrogen Oxides in a fire. Hydrogen Cyanide when heated. Combustion of product under oxygen-starved conditions can be expected to produce numerous toxic products including: nitriles, cyanic acid, isocyanates, amides and carbamates.

HAZARDOUS POLYMERISATION

Will not occur.

11. Toxicological Information

Oral LD50 (rat) : 620 mg/kg (estimate) Data available on components only.

Dermal LD50 (rabbit) : > 1000 mg/kg (estimate) Data available on components only.
Inhalation LC50 (rat) : No Data (Estimate) Data available on components only.

IRRITATION EFFECTS DATA

Severe irritant to the eyes of a rabbit.

12. Ecological Information

Waste from this product may present long term environmental hazards, thus landfill must be considered less acceptable than incineration.

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/RID SHIPPING DATA : Not regulated
IMO SHIPPING DATA : Not regulated
ICAO/IATA SHIPPING DATA : Not regulated
IS THE PRODUCT CLASSIFIED AS A MARINE POLLUTANT? No

15. Regulatory Information

EEC SYMBOL Harmful (Xn)

EEC Council Directive relating to the classification, packaging and labelling of dangerous substances and preparations Risk ® and Safety (S) phrases Harmful by inhalation and if swallowed (R20/220). May cause sensitization by skin contact (R43).

In case of contact with eyes, rinse thoroughly with plenty of water and seek medical advice (S26). Wear suitable gloves and eye/face protection (S37/39).

16. Other Information

This Safety Data Sheet has been written to comply with Directives 91/155/EEC (the "Safety Data Sheet Directive") and 88/379/EEC (the "General Preparations Directive").

Date Issued : 1.04.2008
Reference : SD/EFB/03
Intended Use : Epoxy Curing Agent
Product Code : Epoxy Filler (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.