

MATERIAL SAFETY DATA SHEET

EPOXY COATING WB - PACK A

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Coating WB - Pack A
 Product Type : Epoxy Resin
 Application : Epoxy Resin Floor Coating.
 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 with 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
 Viscosity Not applicable

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.
Carcinogenicity	Not expected to be carcinogenic.
Mutagenicity	Not considered to be a mutagenic hazard.

12. Ecological Information

<u>Persistence/Degradability</u>	
Biodegradable	This product is expected to be not readily biodegradable.
Bioaccumulation	Has the potential to bioaccumulate.
<u>Ecotoxicity Effects</u>	
Toxicity to fish	Expected to be very toxic. LC/EC/IC 50 > 1 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	The product is insoluble in water and sinks in water.
Sewage treatment	Expected to be practically non toxic 1. LC/EC/IC 50 > 100 mg/l
Basis for assessment	Information given is based on knowledge of all the components and the toxicology of similar products

13. Disposal

Product Disposal	Recover and recycle if possible. Arrange for disposal via a licensed waste contractor.
Container Disposal	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 may be more stringent and these must be complied with.

14. Transport Information

ADR / RID

UN Number	3082
Class	9
Classification Code	M6
Packaging Group	111
Labelling Number	9
Risk Number	90
Description of the goods contains	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

ICAO / IATA-DGR

UN Number	3082
Class	9
Packaging Group	111
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

IMDG

UN Number	3082
Class	9
Packaging Group	111
Labelling Number	9
Description of the goods contains	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. EPOXY RESIN

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 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	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.

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	04.06.2008
Reference	ECWBA/03
Product Code	Epoxy Products Epoxy Coating WB (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

EPOXY COATING WB - PACK B

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Coating WB - Hardener - Pack B
Product Code : ECWB/B
Product Type : Epoxy Resin Curing Agent
Supplier : Epoxy Products Limited
Address : Unit 7 Haviland Rd, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England
Contact Numbers : 01202 891899
Emergency Telephone Number : 01202 896983

2. Hazards Identification

Irritating to skin (R38). Risk of serious damage to eyes (R41). May cause sensitisation by skin contact (R43).

3.1. Signs and Symptoms of Exposure (Possible Longer Term Effects)

Repeated and/or prolonged contact with the skin may cause allergic reaction/sensitisation.

Repeated and/or prolonged exposure may result in: adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as defatting, rash, irritation or corrosion), and adverse respiratory effects (such as cough, tightness of chest or shortness of breath).

3. Composition/Information on Ingredients

Preparation description	:	Epoxy amine adduct emulsion
<u>CAS Number and Chemical Name</u>	<u>%</u>	<u>Classification</u>
7732-18-5 Water	35 - 69	None
Polyamino-amide	30 - 60	Xi; R41
Polyethylene amines	1 - 5	C; Xn; R21/22. R34. R43

4. first-aid Measures

4.1. Signs and Symptoms of Exposure (Acute effects)

Contact with eyes causes severe irritation and pain.

Contact with skin causes severe irritation and pain.

Inhalation of vapours may cause irritation in the respiratory tract.

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

Inhalation : In case of inhalation, move patient at once to fresh air and seek medical advice.

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

5.1. 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.

5.2. Special Exposure Hazards (Fire Fighting)

May generate toxic, irritating or flammable combustion products. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases.

5.3. Special Fire Fighting Procedures

Keep containers cool with water spray. Avoid skin contact. Wear complete body protective butyl rubber clothing. Use water spray to reduce vapours. Fire-fighters should wear butyl rubber boots, gloves and body suit and self contained breathing apparatus.

6. Accidental Release Measures

Prevent accidental spillages to enter streams or drinking water supplies.

7. Handling and Storage

Handling : Avoid contact with eyes. Avoid breathing vapours.

Storage : Keep away from oxidisers, heat or flames. Protect containers from physical damage and from freezing.

8. Exposure Controls/Personal Protection

8.1. Personal Protection

- a) Respiratory Protection : Under normal conditions - not required.
- b) Hand Protection : Nitrile rubber gloves or any impermeable gloves must be worn.
- c) Eye Protection : Goggles or chemical safety glasses.
- d) Skin Protection : Protective long sleeved overalls must be worn.

9. Physical and Chemical Properties

Appearance : Mobile viscous liquid
Colour : Various
Odour : Ammoniacal
pH : Alkaline
Boiling Point : 100C (212F)
Flash Point : Not determined
Flammability : Not applicable
Auto flammability : >150C (>302F)
Explosive Limits : No data
Vapour Pressure : Not determined.
Relative Density : 1.500 @ 25C (77F)
Water Solubility : Completely

10. Stability and Reactivity

Materials to Avoid

Oxidising Agents (i.e. perchlorates, nitrates etc.); Amines. A reaction accompanied by large heat release occurs when the product is mixed with acids.

Hazardous Decomposition Products

Carbon Monoxide in a fire. Carbon Dioxide in a fire. Nitrogen Oxides in a fire. Irritating and toxic fumes at elevated temperatures.

Hazardous Polymerisation

Will not occur.

11. Toxicological Information

Oral LD50 (rat) : >2000 mg/kg (estimate)

Dermal LD50 (rabbit) : > 5000 mg/kg (estimate)

Inhalation LC50 (rat) : No Data

11.1 Irritation Effects Data

Moderate irritant to the skin of a rabbit. Severe irritant to the eyes of a rabbit.

12. Ecological Information

Information on this mixture is insufficient to classify.

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 Classed As A Marine Pollutant? No

15. Regulatory Information



HARMFUL /IRRITANT

EEC Symbol : Harmful/Irritant

EEC Council Directive relating to the classification, packaging and labelling of dangerous substances and preparations Risk ® and Safety (S) phrases Irritating to skin (R38). Risk of serious damage to eyes (R41). May cause sensitisation by skin contact (R43). In case of contact with eyes, rinse well with plenty of water and seek medical advice (S26). After contact with skin, wash immediately with plenty of soap and water (S28). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).

16. Other Information

Date Issued : 04. 06.2008

Reference : SD/ECWB/B/03

Intended Use : Epoxy Resin Curing Agent

Product Code : Epoxy Products Epoxy Coating WB (Pack B - Hardener)

Other information : Technical Services Department

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