

MATERIAL SAFETY DATA SHEET

EPOXY COATING - PACK A

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Coating - Pack A
Application : Epoxy resin floor paint
Supplier : Epoxy Products Limited, 7 Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England
Emergency Contact Number : 01202 891899

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	20 - 25	Xi	R36/38, R43
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	1- 5	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. Seek immediate 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. 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, 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 Liquid

Colour Various

Odour Slight

Flash Point >150° C

Auto Ignition Temperature >400° C

Water Solubility Negligible

Density 1.80g/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
Sensitisation
Carcinogenicity
Mutagenicity

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

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

Ecotoxicity Effects

Toxicity to fish
Toxicity to algae
Acute toxicity to invertebrates
Mobility
Sewage treatment

Expected to be toxic. 1 < LC/EC/IC 50 > 10 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
Sinks in water.
Expected to be practically non toxic 1. LC/EC/IC 50 > 100 mg/l

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 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

Land Transport 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. CONTAINS LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER

Air Transport ICAO-TI / IATA-DGR

UN Number
ICAO/IATA Class
Packaging Group
Label
Correct Technical Name

3082
9
111
9
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
N.O.S. CONTAINS LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER

Maritime Transport IMDG / GGVSea

UN Number
IMDG- CODE
EmS Number
Packaging Group
Description of the goods contains

3082
9
F-A/ S-B
111
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
N.O.S. CONTAINS LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER

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
S46

S61

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.
Avoid release to the environment. Refer to special instructions/safety data sheet.

16. Other Information

Date Issued 05.02.2015
Reference ECA/06
Product Code Epoxy Products Epoxy Coating (Resin - Pack A)
Intended Use Epoxy Resin floor paint.

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 PACK B

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Coating - Pack B
Application : Epoxy Curing Agent
Supplier : Epoxy Products Limited, 7 Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England
Emergency Contact Number : 01202 891899

2. Hazards Identification

Classification Corrosive
C; R34; R43; R52/53
Human Health Hazards Harmful by inhalation, in contact with skin and if swallowed.
Safety Hazards Causes burns. May cause sensitization by skin contact
Environmental Hazards Not classified as flammable but will burn.
Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

3. Composition/Information on Ingredients

Description Epoxy resin hardening agent, formulation on aliphatic polyamine basis

Hazardous Components

Component	CAS/EINECS	Concentration %	Classification	Risk Phrases
Benzyl Alcohol	100-51-6 202-859-9	25 - 50	Xn	R20/22
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8	10 - 25	C, Xn	R21/22, R34, R43, R52/53
m-phenylenebis(methylamine)	147-55-0 216-032-5	2.5 - 10	C, Xn	R20/22, R34, R43, R52/53

4. first-aid Measures

General Immediately remove all contaminated clothing
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. Seek immediate medical attention.
Skin Contact **Do not delay.** Wash skin thoroughly with soap and water.
Ingestion **Do not delay** Seek immediate medical attention.
Inhalation Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

5. Fire-fighting Measures

Extinguishing Media Use foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Extinguishing Media – Not suitable Do not use water jet.
Special Hazards of Product Combustion products may include oxides of nitrogen, carbon monoxide. Keep adjacent containers cool by spraying with water.
Protective Equipment for Fire-Fighting Wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions Follow precautions for safe handling described in this safety data sheet. Keep people at a distance and stay on the windward side. Provide for sufficient ventilation.
Environmental Precautions Prevent contamination of soil and water.
Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
Clean Up Methods –Small Spillage Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum. Scrub contaminated surfaces with water. Retain washings as contaminated waste.
Clean Up Methods –Large Spillage Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as for small spillage.

7. Handling and Storage

Usage Precautions Avoid spilling, skin and eye contact. Avoid inhalation of vapours. Provide good ventilation
Storage Precautions Keep containers tightly closed in a well ventilated place.

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, 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.
Respiratory Equipment Not required in well ventilated areas
If ventilation is inadequate suitable respiratory protection must be provided.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Yellowish
Odour	Like amine
Boiling Point	> 200°C
Flash Point	> 100°C
Ignition Temperature	380°C
Self Inflammability	Product is not self-igniting
Danger of explosion	Product is not explosive
Relative Density	1.03 g/m ³ @20°C
Viscosity	190 mPas at 20°C

10. Stability and Reactivity

Conditions to avoid	No decomposition if used according to specifications
Materials to avoid	Strong oxidising agents. Strong acid and alkaline materials will create exothermic reactions.
Dangerous reactions	No dangerous reactions known
Dangerous products of decomposition	No dangerous decomposition products known

11. Toxicological Information

Toxicological Tests	
Primary Irritant Effect	Caustic effect on skin and on mucous membrane
Eye Irritation	Risk of serious damage to eyes. Strong caustic effect
Skin Irritation	Caustic effect on skin and mucous membrane.
Sensitisation	Expected to be a skin sensitiser
Ingestion	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological Information

General Ecological Information	Do not empty into waters and drains. Do not empty the product into drains. Must not reach sewage water or drainage ditch undiluted. Water hazard class 1 : (slightly hazardous for water)
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13. Disposal Considerations

Product Disposal	Waste to be treated as controlled waste. Dispose to licensed waste disposal site. In accordance with local Waste Disposal Authority.
Container Disposal	Keep container labelled until cleaned and then remove or deface labels. Drain container thoroughly and rinse well with water. Treat rinsings as for product disposal. Empty packaging should be removed by a licensed waste contractor.

14. Transport Information

Land Transport ADR / RID

UN Number	2735
Class	8
Classification Code	C7
Packaging Group	111
Labelling Number	8
Risk Number	80
Description of the goods contains	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

Air Transport ICAO-TI / IATA-DGR

UN Number	2735
ICAO/IATA Class	8
Packaging Group	111
Label	8
Correct Technical Name	AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

Maritime Transport IMDG / GGVSea

UN Number	2735
IMDG- CODE	8
EmS Number	F-A/ S-B
Marine Pollutant	NO
Packaging Group	111
Description of the goods contains	AMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE)

15. Regulatory Information

Label requirements to EC Directives	3 –aminomethyl-3,5,5-trimethylcyclohexylamine and Benyl Alcohol
Classification	C - Corrosive



C - CORROSIVE

Risk Phrases - R	R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R34	Causes burns
	R43	May cause sensitization by skin contact.
	R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Safety Phrases - S	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
	S28	After contact with skin, wash immediately with plenty of soap and water.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	If case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

16. Other Information

Date Issued	05.02.2015
Reference	ECB/06
Product Code	Epoxy Products Epoxy Coating (Hardener - Pack B)
Intended Use	Epoxy resin floor coating.

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.