

# MATERIAL SAFETY DATA SHEET

## EPOXY SAFETY TREAD - PACK A

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

Product Name : Epoxy Products Safety Tread - Pack A  
Product Code : SCEP/A  
Product Type : Epoxy/Polyurethane blended resin coating  
Supplier : Epoxy Products Limited  
Address : Unit 7, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England  
Contact numbers : 01202 891899  
Emergency Telephone Number : 01202 891899

### 2. Hazards Identification

Human health hazards : Irritating to eyes and skin. May cause sensitisation by skin contact.  
Safety hazards : Not classified as dangerous under EC criteria  
Environmental hazards : Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

### 3. Composition/Information on Ingredients

Preparation description : Blend of liquid epoxy resin, polyurethane resin, pigments, plasticisers and reactive diluent  
Dangerous components/constituents

<u>CAS/Registry No.</u>	<u>Material Description</u>	<u>% Content</u>
25068-38-6	*4,4'-ISOPROPYLINDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER EC Hazard: Irritant Xi. N R Phrases : R36/38, R43, R51/53	35-50
28064-14-4	*BISPHENOL F-EPICHLOROHYDRIN COPOLYMER EC Hazard: Irritant Xi. R Phrases : R43, R51/53	25-30
25154-52-3	P-ISONONYL PHENOL	< 2

### 4. First Aid Measures

Symptoms and effects : Irritation of the skin and eyes.  
First aid - inhalation : No specific measures.  
First aid - skin : DO NOT DELAY. Remove contaminated clothing. Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.  
First aid - eye : DO NOT DELAY. Flush eye with water. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
First aid - ingestion : DO NOT INDUCE VOMITING. If rapid recovery does not occur, obtain medical attention.  
Advice to Physicians : If skin sensitisation has developed and a casual relationship has been confirmed, further exposure should not be allowed.

### 5. Fire-fighting Measures

Specific hazards : Carbon monoxide may be evolved if incomplete combustion occurs.  
Extinguishing media - small fires : Dry chemical powder, carbon dioxide, foam, water spray or fog, sand or earth.  
Extinguishing media - large fires : Foam, water spray or fog.  
Unsuitable extinguishing media : Water jet.  
Protective equipment : Full protective clothing and self contained breathing apparatus.

### 6. Accidental Release Measures

Personal precautions : Avoid contact with skin, eyes and clothing.  
Personal protection : Wear protective clothing specified for normal operations (see section 8).  
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. If material enters drains, it should be pumped out into an open vessel. Emergency services may need to be called to assist in this operation.  
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. Scrub contaminated surfaces with a detergent solution.  
Clean up methods - large spillage : Transfer to a labelled container for product recovery or safe disposal. Treat residues as for small spillage.

### 7. Handling and Storage

Handling : Avoid contact with skin, eyes and clothing.  
Storage : Keep container tightly closed and dry.  
Storage temperatures : Ambient.

### 8. Exposure Controls/Personal Protection

Occupational exposure standards : None established  
Respiratory protection : Not normally required.  
Hand Protection : PVC Gloves  
Eye Protection : Monogoggles  
Body Protection : Standard issue work clothes

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

Physical state	:	Viscous liquid
Colour	:	Various
Density	:	1350 kg/m <sup>3</sup> @ 25°C
Solubility in Water	:	Negligible
Solubility in Other Solvents	:	Readily soluble in various organic solvents
Flash Point	:	149°C (PMCC ASTM D 93)

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

Stability	:	Stable
Conditions to avoid	:	Temperatures above 90°C.
Materials to avoid	:	Strong oxidising agents. Amines mercaptans, acids and caustic soda.
Hazardous decomposition products	:	None known

### **11. Toxicological Information**

Basis for assessment	:	Information given is based on data on the components and the toxicology of similar products.
Acute toxicity - oral	:	LD50 : > 2000 mg/kg
Acute toxicity -dermal	:	LD50 : > 2000 mg/kg
Eye irritation	:	Irritant.
Skin irritation	:	Irritant.
Skin sensitisation	:	Skin sensitiser
Mutagenicity	:	Not mutagenic

### **12. Ecological Information**

Basis for assessment	:	Information given is based on data on the components and the ecotoxicology of similar products
Mobility	:	Sinks in water.
Persistence/Degradability	:	Not readily biodegradable.
Bioaccumulation	:	Has the potential to bioaccumulate.
Ecotoxicity	:	Data not available.
Sewage Treatment	:	Data not available

### **13. Disposal Considerations**

Product disposal	:	Recover or recycle if possible. Otherwise incinerate or dispose to licensed disposal contractor.
Container disposal	:	Drain container thoroughly, rinse three times with suitable solvent and treat rinsings as for product disposal. Dispose to licensed disposal contractor.
Local legislation	:	The UK. All waste should be disposed of using a registered waste carrier operating under the Environmental Protection Act (Duty and Care) Regulations 1992 (S.I. No 2839)

### **14. Transport Information**

ADR/RID	:	
ADR/RID Class/Item	:	9/11(c)
ADR/RID Symbol	:	Miscellaneous dangerous substances
ADR/RID Kemlar Plate	:	90/3082
ADR/RID Proper Shipping Name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Epoxy Resin)
Other Information	:	Not dangerous for conveyance under UN, IMO, and IATA/ICAO codes.

### **15. Regulatory Information**



**DANGEROUS FOR THE ENVIRONMENT**



**HARMFUL /IRRITANT**

EC Label name	:	Contains Epoxy Resin (number average molecular weight <700)
EC Classification	:	Harmful/Irritant. Dangerous for the environment.
EC Symbols	:	Xi, N
EC Risk phrases	:	R36/38 Irritating to eyes and skin R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Safety phrases	:	S24 Avoid contact with skin. 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. S37/39 Wear suitable gloves and eye/face protection. S61 Avoid release to the environment.

### **16. Other Information**

Date Issued	:	16.03.2008
Reference	:	SDS/ ST/A/03
Other information	:	Technical Services Department

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

## SAFETY TREAD - PACK B

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

Product Name : Epoxy Products Safety Tread - Pack B  
Product Code : ST/B  
Product Type : Epoxy Hardener  
Supplier : Epoxy Products Limited  
Address : Unit 7, Ferndown Industrial Estate, Wimborne, Dorset. BH21 7RZ England  
Contact numbers : 01202 891899  
Web Site : www.epoxyproducts.co.uk  
E Mail : sales@epoxyproducts.co.uk  
Emergency Telephone Number : 01202 891899

### 2. Hazards Identification

Harmful in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Classification Xn R21/22 Rep 3; R62, R63, C; R34, R43. N; R50/53

### 3. Composition/Information on Ingredients

	%	Classification
2-PIPERAZINE-1-YLETHLAMINE	>30	C: R34, Xn R21/22, R43, R52/53
NONYLPHENOL	<30	Repr. Cat. 3; R62, R63 C: R34, Xn: R22 N: R50/53

### 4. First-aid Measures

#### (a) INHALATION:

When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops provide artificial respiration. Move the patient at once to fresh air. Get medical attention..

#### (b) INGESTION

Never give liquid to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit does not enter the lungs.

#### (b) SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Important to remove the substance from the skin immediately. Rinse with water. Contact physician if discomfort continues.

#### (c) EYE CONTACT

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice, preferably an eye specialist.

### 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 (CO<sub>2</sub>), Dry Chemical Alcohol Foam.

#### SPECIAL EXPOSURE HAZARDS (FIRE FIGHTING)

May generate toxic gases. Carbon Monoxide (CO). Carbon Dioxide (CO<sub>2</sub>) Nitrous gases.

#### SPECIAL FIRE FIGHTING PROCEDURES

Keep upwind to avoid fumes. Keep run off water out of sewers and water sources. Dike for water control.

### 6. Accidental Release Measures

#### PERSONAL PRECAUTIONS

Wear protective clothing, boots, gloves and eye protection.

#### ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or into the ground. Contain spillages with sand, dry earth or any other suitable absorbent material.

#### SPILL CLEAN UP METHODS

Stop leak if possible without risk. Place into containers.

### 7. Handling and Storage

#### USEAGE PRECAUTIONS

Avoid inhalation of vapours and contact with skin and eyes.

#### STORAGE PRECAUTIONS

Store in tightly closed original containers in a dry, cool and well ventilated place. Store away from acids

### 8. Exposure Controls/Personal Protection

- a) Respiratory Protection : Not required under normal conditions in well ventilated workplace
- b) Hand Protection : Nitrile rubber gloves or any impermeable gloves must be worn.
- c) Eye Protection : Protective glasses or goggles
- d) Skin Protection : Protective long sleeved overalls must be worn.

### 9. Physical and Chemical Properties

Appearance : Wet sand, ammoniacal smell  
Colour : Amber  
Odour : Ammonia  
pH : Alkaline  
Flash Point : >100°C  
Vapour Pressure : (mm Hg) < 0.1 @ 21°C  
Water Solubility : <0.1g/l

## 10. Stability and Reactivity

### STABILITY

Stable under normal temperatures and conditions

### MATERIALS TO AVOID

Strong oxidising substances. Organic peroxides. Strong alkalis. Acids- organic. Chemically reactive metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

Ammonia or amines. Carbon Monoxide, Carbon Dioxide, Nitric Acid, Nitrous gases. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## 11. Toxicological Information

TOXIC DOSE 1 – LD50 1620mg/kg (oral rat)

### INHALATION

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

### INGESTION

Harmful if swallowed. Nausea, vomiting. Diarrhoea. Headache. May cause chemical burns in mouth, oesophagus and stomach.

### SKIN CONTACT

May cause sensitisation by skin contact. May be absorbed through the skin. May cause nausea, headache, dizziness and intoxication. Causes burns.

### EYE CONTACT

Irritating and may cause redness and pain. Risk of corneal damage. Visual disturbances including blurred vision. Causes burns.

## 12. Ecological Information

### ECOTOXICITY

This product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

### MOBILITY

This product is insoluble in water.

### BIOACCUMULATION

May accumulate in soil and water systems.

### WATER HAZARD CLASSIFICATION

#### Wgk 3

Name	NONYLPHENOL
LC50, 96 Hours, Fish mg/l	0.128
EC50, 48 Hours, DAPHNIA, mg/l	0.0848
Biocummulation potential	May accumulate in soil and water systems.

## 13. Disposal Considerations

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

## 14. Transport Information

UK ROAD CLASS 8  
PROPER SHIPPING NAME AMINES, LIQUID, CORROSIVE, N.O.S. (Aminoethyl)piperazin, 1- (2- (AEP), Nonylphenol

UN NO ROAD	2735	UK ROAD PACK GR	111
ADR CLASS NO	8	ADR CLASS CLASS	8: Corrosive Substance
ADR PACK GROUP	111	HAZARD No (ADR)	80
ADR LABEL No	8	HAZCHEM CODE	2X
CEPIC TEC (R) No	80 gc7-11+111	RID CLASS	8
RID PACK GROUP	111	UN NO SEA	2735
IMDG CLASS	8	IMDG PACK GR	111
UN AIR NO	2735	AIR CLASS	8
AIR PACK GR	111		
MARRINE POLLUTANT?	YES		

## 15. Regulatory Information

### Labelling



**CORROSIVE**



**DANGEROUS FOR THE ENVIRONMENT**

CONTAINS

2-PIPERZIN-1-YLETHYLAMINE  
NONYLPHENOL

Risk Phrases - R

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child

Safety Phrases - S	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)
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

**16. Other Information**

Date Issued : 01/02/2009  
Reference : SD/ST/B/03  
Intended Use : Epoxy Curing Agent  
Product Code : Safety Tread (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.