

MATERIAL SAFETY DATA SHEET

EPOXY SAFER GRIP - PACK A

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Safer Grip - Pack A
Product Code : SGA
Product Type : Epoxy Resin
Supplier : Epoxy Products Limited
Address : Unit 7, Haviland Rd, Ferndown Industrial Estate, Wimborne, Dorset. England
Contact numbers : 01202 891899
Emergency Telephone Number : 01202 896983

2. Hazards Identification

Physical Hazard : Non classifiable
Health hazards : Irritant.(Xi). 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, inert fillers, pigments and reactive diluent

Dangerous components/constituents

CAS/Registry No.	Material Description	% Content
25068-38-6	*4,4'-ISOPROPYLINDENEDIPHENOL-EPICHLOROXYDRIN COPOLYMER (Number average molecular weight less than 700) Physical Hazard : Non classifiable Health Hazard: Irritant (Xi). R Phrases : R36, R38, R43, R51 and R53 OEL : None Established	50-70
28064-14-4	*PHENOL-FORMALDEHYDE POLYMER GLYCIDYL ETHER Physical Hazard : Non classifiable Health Hazard: Irritant (Xi). R Phrases : R36, R38, R43, R51 and R53 OEL : None Established	25-35

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). Use barrier cream.
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 store in a dry cool place.
Storage temperatures : Ambient.

8. Exposure Controls/Personal Protection

Occupational exposure standards : None established
Respiratory protection : Not 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	:	1550 kg/m ³ @ 25°C
Solubility in Water	:	Not miscible
Solubility in Other Solvents	:	Readily soluble in various organic solvents

10. Stability and Reactivity

Stability	:	Stable and inert.
Conditions to avoid	:	Temperatures above 100°C.
Materials to avoid	:	Strong oxidising agents. Amines mercaptans, mineral acids and caustic soda.
Hazardous decomposition products	:	Oxides of carbon

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	:	Toxic, 1< LC50 or EC50< or = 10mg/l, to aquatic organisms.

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

UK Carriage Classification	:	Environmentally Hazardous Substance
UN Conveyance Classification:	:	Environmentally Hazardous Substance
UN Class	:	9
UN Packaging Group	:	111
UN Number	:	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE (Contains Epoxy Resin)
ADR/RID Proper Shipping Name :	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Epoxy Resin)
HS Code Number	:	390730 00

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	:	12.04.2008
Reference	:	SDS/ SGA/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

MATERIAL SAFETY DATA SHEET

EPOXY SAFER GRIP - PACK B

1. Identification of the substance/preparation and company.

Product Name : Epoxy Products Epoxy Safer Grip - Pack B
Product Code : SGB
Product Type : Epoxy Resin
Supplier : Epoxy Products Limited
Address : Unit 7, Haviland Rd, Ferndown Industrial Estate, Three Legged Cross, Wimborne, Dorset. BH21 7RZ.
Emergency Telephone Number : 01202 891899

2. Composition/Information on Ingredients

Preparation description : Cycloaliphatic amine
Dangerous components/constituents

CAS / Registry Number	Materials Description	%		
100-51-6	Benzyl Alcohol	> 45	Irritant : Xn	R Phrases : R20/22
1761-71-3	Methylenedi(cyclohexylamine)	< 5	Corrosive : C	R Phrases : R35 R22 R37 R43

3. Hazards Identification

Human health hazards : Harmful by inhalation and if swallowed. 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.

4. First Aid Measures

Symptoms and effects : Contact with eyes causes severe eye irritation. and pain. Prolonged exposures may result in adverse eye defects (such as conjunctivitis or corneal damage)
First aid - inhalation : No specific measures. Move patient to fresh air.
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 : If swallowed seek medical attention immediately. Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel.
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 or nitrile rubber gloves
Eye Protection : Splash proof eye goggles
Body Protection : Standard issue work clothes

9. Physical and Chemical Properties

Physical state : Low viscosity liquid
Colour : Amber
Density : 1050 kg/m³ @ 25°C
Solubility in Water : Slightly
Solubility in Other Solvents : Readily soluble in various organic solvents
Dynamic Viscosity : 0.5 - 0.90 Pa.s @ 25°C
Flash Point : 103°C (PMCC ASTM D 93)

10. Stability and Reactivity

Stability : Stable
Conditions to avoid : Temperatures above 90°C.
Materials to avoid : Oxidising agents. A reaction accompanied by large heat release occurs when the product is mixed with acids.
Hazardous decomposition products : Ammonia when heated. Carbon monoxide in a fire. Carbon Dioxide in a fire. Nitrogen Oxides in a fire

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 : > 620 mg/kg
Acute toxicity -dermal	:	LD50 : > 1000 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 Shipping Data	:	Not regulated
IMO Shipping Data	:	RESIN COMPOUND - Not regulated
ICAO/IATA	:	RESIN COMPOUND - Not regulated
Other Information	:	Not classed as a marine pollutant

15. Regulatory Information

EEC Number	:	All components listed.
EC Label name	:	Epoxy Curing Agent
EC Classification	:	HARMFUL



XN Harmful

EC Symbols	:	Xn.
EC Risk phrases	:	R20/22 Harmful by inhalation and if swallowed. R43 May cause sensitisation by skin contact
EC Safety phrases	:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 Wear suitable gloves and eye/ face protection.

16. Other Information

Date Issued	:	12.04.08
Reference	:	SDS/ SGB/03
Other information	:	Technical Services Department

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