

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Epoxy Resin
Manufacturer: Chemco International Ltd
East Shawhead Industrial Estate
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Scotland United Kingdom
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2. COMPOSITION INFORMATION ON INGREDIENTS

Blend of epoxy resin and reactive diluents.

Chemicals	Classification	Risk phrases	CAS No.	%
Bisphenol A	N, Xi	R36/38, R43, R51/53	025068-38-6	25 - 30
Bisphenol F	N, Xi	R36/38, R43, R51/53	028064-14-4	10 - 15
Aliphatic diglycidylether	Xi	R36/38, R43	016096-31-4	10 - 15
Inert filler				25 - 30

The remaining 30% of the composition is a blend of proprietary, non-hazardous chemicals that are trade secret.

3. HAZARDS IDENTIFICATION

Acute effects: 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.

4. FIRST AID MEASURES

Inhalation: Move to fresh air if effects occur. Seek medical attention.
Ingestion: Immediately give plenty of water (if possible charcoal slurry). Seek medical attention immediately. Do not induce vomiting. Fully trained personnel can use oxygen or artificial respiration if required.
Eyes: Rinse with flowing water immediately for at least 15 minutes. Seek medical attention.
Skin: Remove contaminated clothing. Flush with flowing water for at least 15 minutes. Wash affected area with soap and water. Seek medical attention if irritation persists.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Dry powder, foam, carbon dioxide.
Hazardous decomposition products: Under conditions for incomplete combustion or pyrolysis, phenolics and carbon oxides may evolve. The thermal decomposition products therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.
Specific fire or explosion hazards: Non-flammable product.
Special fire-fighting protection: Wear self-contained breathing apparatus and full protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear adequate personal protective equipment.
Environmental precautions:	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
Methods for cleaning up:	For large amounts, dike spilled product with liquid absorbing material and pump off. For smaller amounts, soak up with inert absorbent material such as sand and dispose of as hazardous waste. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling procedures for the specific solvent is followed. Residual product may be removed using steam or hot soapy water.

7. HANDLING & STORAGE

Handling:	Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Handle and open container with care.
Storage:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and store at room temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures/controls:	Adequate ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
Exposure controls:	None.
Respiratory protection:	Normally not required. Wear self-contained breathing apparatus when spraying.
Eye protection:	Chemical safety glasses, splash-proof eye goggles with a full-face shield. Contact lenses should not be worn.
Skin/body protection:	Protective suit, rubber or plastic gloves and safety shoes.
Hand protection:	Nitrile rubber gloves or butyl rubber gloves. Gauntlet type.
Protective measures:	Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Viscous liquid.
Colour:	As specified on package.
Odour:	Odour free.
Specific gravity @ 25°C:	1.2 - 1.35g/cm ³
pH:	Not applicable.
Boiling point:	Decomposes prior to boiling.
Flash point:	> 105°C (DIN 51758).
Water solubility:	Insoluble.

10. STABILITY & REACTIVITY

Chemical stability:	Stable under normal storage conditions.
Materials to avoid:	Strong acids, bases and oxidising agents.
Conditions to avoid:	Take necessary action to avoid static electricity discharge.
Hazardous decomposition products:	Burning produces obnoxious and toxic fumes. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:		
Oral LD50:	> 2,000mg/kg	(rat).
Acute toxicity (irritation, sensitisation, etc):		
Eye:	Irritating.	(rabbit).
Skin:	Irritating.	(dermal rabbit).
Sensitisation:	Causes sensitisation	(dermal guinea pig).

12. ECOLOGICAL INFORMATION

Additional ecological information:	Avoid subsoil penetration. Do not let product enter drains. Do not contaminate surface water.
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13. DISPOSAL CONSIDERATIONS

Waste key number:	070208
Product:	Must be incinerated when in compliance with local regulations.
Contaminated packaging:	Can be re-used after cleaning when in compliance with the Environmental Protection (Duty of Care) Regulations 1991. Dispose of washing solution in the same way as product.

14. TRANSPORT INFORMATION

Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
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Road/rail			
ADR/RID Class:	9	ADR/RID Item No:	11c
Hazard No:	90	Trem Card:	90G01
UN No:	UN 3082		

Sea			
IMDG Class:	9	Packing Group:	III
UN No:	UN 3082		

Air			
IATA/ICAO Class:	9	Packing Group:	III
UN No:	UN 3082		
Packing Instruction (Pass & Cargo):	914	Packing Instruction (Cargo):	914

15. REGULATORY INFORMATION

Chemical name:	Contains epoxy constituents.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and UK Chemical Hazard Information and Packaging for Supply (CHIPS) legislation.
Symbols:	(N) Dangerous for the environment. (Xi) Irritant.
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:	S28, After contact with skin, wash immediately with plenty of water. S37/39, Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

The information contained in this data sheet is based on present state of knowledge and current national legislation (CHIPS). It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for the particular applications.