

## 1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Epoxy Resin  
Manufacturer: Chemco International Ltd  
East Shawhead Industrial Estate  
Coatbridge ML5 4XD  
Scotland United Kingdom  
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## 2. COMPOSITION INFORMATION ON INGREDIENTS

Bisphenol A - epoxy resin.

Chemicals	Classification	Risk phrases
Bisphenol A - (epichlorhydrin)	Xi, N	R36/38, R43, R51/53

The remaining 25% 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: Water spray, carbon dioxide, dry chemical powder, alcohol foam.  
Unsuitable extinguishing media: High volume water jet.  
Hazardous decomposition products: Burning produces obnoxious and toxic fumes. Carbon oxides. Do not allow material to contaminate ground water system. Prevent product from entering drains.  
Special fire-fighting protection: Wear self-contained breathing apparatus and protective suit.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Do not breathe vapours. Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.
Environmental precautions:	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
Methods for cleaning up:	Soak up with inert absorbent material such as sand and collect in suitable containers.

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## 7. HANDLING & STORAGE

Handling:	Provide sufficient air exchange and/or exhaust in work rooms. Sensitising. Handle and open container with care. Avoid formation of aerosol.
Storage:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Store at room temperature in the original container.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures/controls:	No special precautions required.
Exposure limits:	None.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Eye protection:	Tightly fitting safety goggles, face-shield.
Skin protection:	Protective suit and safety shoes.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Yellow.
Odour:	Slight.
pH:	Calculated at 7 in water.
Boiling point:	> 200°C
Melting point:	—
Flash point:	> 200°C (DIN 51758)
Solubility:	Practically not soluble @ 20°C
Vapour pressure:	< 0.01Pa @ 20°C
Relative density:	1.2 - 1.5g/cm <sup>3</sup> @ 45°C
Viscosity:	20 - 27 Pa.s @ 35°C

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## 10. STABILITY & REACTIVITY

Chemical stability:	Stable under normal storage conditions.
Materials to avoid:	Acids, bases and oxidising agents.
Hazardous decomposition products:	Burning produces obnoxious and toxic fumes. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral LD50:	> 5000mg/kg <sup>-1</sup> (rat).
Dermal:	> 2000mg/kg <sup>-1</sup>
Irritation:	
Skin:	Irritating.
Eyes:	Irritating.
Sensitisation:	Causes sensitisation.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	
LC50/96h/fish:	dose = 1.5mg/l <sup>-1</sup>
EC50/24h/daphnia:	dose = 3.6mg/l <sup>-1</sup>
Respiration inhibition of activated sludge	
IC50:	dose = > 100mg.l <sup>-1</sup>
Period:	3hrs
Biodegradability (Sturm test):	Not readily biodegradable.
Degradability:	12%
Method:	OECD 301 B
Additional information about ecology:	Avoid subsoil penetration. Do not let product enter rains. Do not contaminate surface water.

## 13. DISPOSAL CONSIDERATIONS

Product:	Can be disposed of or incinerated when in compliance with the local regulations.
Containers:	Empty containers can be land-filled when in compliance with the Environmental Protection (Duty of Care) Regulations 1991

## 14. TRANSPORT INFORMATION

Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)		
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:	Epoxy resin.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and UK Chemicals Hazard Information and Packaging for Supply (CHIPS) legislation.
Symbols:	(Xi) Irritant. (N) Dangerous for the environment.
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 soap and water. S37/39, Wear suitable gloves and eye/face protection. S61, Avoid release to the environment. Refer to special instructions/safety data sheets.

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## 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.