

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Epoxy Acrylic Resin
Manufacturer: Chemco International Ltd
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2. COMPOSITION INFORMATION ON INGREDIENTS

Epoxy acrylic resin

Chemicals	Classification	Risk phrases	CAS No	w/w %
Acrylic hybrid	-	-	Non Haz	35 - 50
Xylene	Xn	R10, R20/21, R38	1330-20-7	9 - 10
1-Butanol	Xn	R10, R22, R37/38, R41, R67	71-36-3	4 - 5
Propylene glycol ether esters	Xn	R10	108-65-6	6 - 7
Ethylbenzene	F, Xn	R11, R20	100-41-4	1 - 1.5
MIBK	Xn	R11, R20, R36/R37/R66	108-10-1	4 - 5
n-Butyl acrylate	Xi	R10, R36/37/38, R43	141-32-2	<1

The remaining 20% of the composition is a blend of proprietary, non-hazardous chemicals that are trade secret.

3. HAZARDS IDENTIFICATION

Acute effects: Flammable. Harmful by inhalation. May cause sensitization by skin contact.

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: Carbon dioxide, dry powders, foam, water spray.
Special protective equipment: Wear positive pressure self-contained breathing apparatus and protective fire-fighting suit.
Specific methods of fire-fighting: Vapours can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapours with air. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal protection:	Move unprotected personnel upwind to a clear area. Wear adequate personal protective equipment. Treat as flammable liquid. Keep heat, flame or spark producing equipment away. No smoking.
Environmental precautions:	Prevent from entering into soil, waterways and ground water. Flushings and wash waters must be confined and prevented from entering into soil, waterways and ground water. Contain large spills with a dike.
Methods for cleaning up:	Soak up spills with absorbent material such as sand or vermiculite and collect as much as possible in a clean container. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling for the specific solvent are followed. Residue resin may be removed using steam or hot soapy water. Do not empty into drains.

7. HANDLING & STORAGE

Handling:	Practice care and caution to avoid skin and eye contact. Avoid breathing vapours.
Storage:	Ground and bond all equipment. Store containers tightly closed in a well-ventilated area. Do not expose to direct sunlight. Keep away from heat and sources of ignition. No smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Provide general and/or local exhaust ventilation to control airborne concentrations below the recommended exposure guide-line.																
Respirators:	CCROV, CCR with organic vapour cartridge. Supplied air respirator (SA). Self-contained breathing apparatus.																
Exposure limits (UKCOSSTD):	<table><thead><tr><th>Material</th><th>STD</th><th>LTEL</th><th>STEL</th></tr></thead><tbody><tr><td>Xylene</td><td>OES</td><td>100ppm</td><td>150ppm</td></tr><tr><td>Butanol</td><td>OES</td><td>-</td><td>50ppm</td></tr><tr><td>Ethylbenzene</td><td>OES</td><td>100ppm</td><td>125ppm</td></tr></tbody></table>	Material	STD	LTEL	STEL	Xylene	OES	100ppm	150ppm	Butanol	OES	-	50ppm	Ethylbenzene	OES	100ppm	125ppm
Material	STD	LTEL	STEL														
Xylene	OES	100ppm	150ppm														
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Ethylbenzene	OES	100ppm	125ppm														
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.																
Eye protection:	Tightly fitting safety goggles. Face-shield.																
Skin/body protection:	Protective suit. Chemical resistant gloves. Safety shoes.																
Hand protection:	Chemical resistant gloves. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water.																
General personal protection:	Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.																

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid.
Odour:	Aromatic.
Boiling point/range:	140°C
Flash point:	31°C
Water solubility:	Practically insoluble.
Relative density:	1.25g/cc ± 0.05

NB: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY & REACTIVITY

Hazardous reactions: No dangerous reaction known under conditions of normal use.
Stable under recommended storage conditions.

Conditions to avoid: Heat, flames and sparks. No smoking.

Hazardous decomposition products: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50 > 5.000mg/kg (rat).
Acute dermal toxicity: LD50 > 5.000mg/kg (rat).
Eye irritation: No eye irritation. (rabbit).
Skin irritation: Slight irritation. (rabbit).

12. ECOLOGICAL INFORMATION

Degradability: This product has no known eco-toxicological effects.

13. DISPOSAL CONSIDERATIONS

Environmental precautions: Do not flush into surface water or sanitary sewer system.
Disposal: Can be disposed of or incinerated when in compliance with local, national and international regulations.

Contaminated packaging: Do not re-use empty containers.
Containers: Empty containers can be land-filled after cleaning when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORT INFORMATION

Proper shipping name: Resin solution

Road, Rail & Barge
ADR/RID Loaded: 3-31(C) Empty: 3-41 Label: 3
Barge ADNR Loaded: 3-3 Empty: 3-6 Label: 2A
Kemler Code: 30 PENOS Code: S
UN No: UN 1866 Trem Card No: 677B

Sea
IMO/IMDG Class: 3.3 Label: 3
EMS: 3-05 MFAG: 310
UN No: UN 1866 Packing Group: III

Air
IATA/ICAO Class: 3 Packing Group: III
UN No: UN 1866
Packaging Instruction (Pass & Cargo): 309 Packaging Instruction (Cargo): 310

15. REGULATORY INFORMATION

Chemical name:	Epoxy acrylic resin solution.
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:	(F) Flammable (Xn) Harmful. (Xi) Irritant.
Risk phrases:	R10, Flammable. R11, Highly flammable. R20/21/22, Harmful by inhalation and in contact with skin and if swallowed. R36/37/38, irritating to eyes, respiratory system and skin. R41, Risk of serious damage to eyes. R43, May cause sensitization by skin contact. R66, Repeated exposure may cause skin dryness or cracking. R67, Vapours may cause drowsiness and dizziness.
Safety phrases:	S36/37, Wear suitable protective clothing and gloves. S43, In case of fire, use sand, dry chemical or alcohol-resistant foam. S60, This material and its container must be disposed of as hazardous waste.

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.