

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Polyester Hardener
Manufacturer: Chemco International Ltd
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Scotland United Kingdom
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2. COMPOSITION INFORMATION ON INGREDIENTS

Chemicals	Classification	Risk phrases
Methyl ethyl ketone peroxide	O, C	R8, R20/22, R34/R41

3. HAZARDS IDENTIFICATION

Acute effects: Flammable. Harmful by inhalation and if swallowed.
Causes burns. Irritating to eyes and skin.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air if effects occur. Seek medical attention.
Ingestion: Do not induce vomiting. If conscious, drink plenty of water.
Seek medical attention.
Eyes: Rinse immediately with flowing water and continuously
irrigate with isotonic saline solution. Seek medical attention.
Skin: Remove contaminated clothing. Wash affected skin
thoroughly with soap and water. Launder clothes before use.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray, foam, or dry chemical powders (only for small fires).

Special exposure hazards: Under recommended storage conditions, no explosion risk. Product may burn violently. In case of decomposition without flames, explosion risk exists due to developing gas/air mixture.

Special protective equipment: Wear suitable protective equipment and positive pressure, self-contained breathing apparatus.

Other information: Cool closed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal protection:	Avoid contact with skin and eyes. In case of fire do not breathe fumes. Do not eat, drink or smoke while handling the product.
Environmental precautions:	If product enters drains or sewers contact the local water authority immediately. For large spills, evacuate upwind of spills and contain with 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. Residue resin may be removed using steam or hot soapy water. Do not empty into drains.

7. HANDLING & STORAGE

Handling:	Practice good care and caution to avoid skin and eye contact. Keep product and emptied container away from heat and sources of ignition.
Storage:	This product should be stored in the closed supply container at temperatures below 30°C away from direct sunlight. Separate from other dangerous goods in a well ventilated storage room. Polymerisation may be initiated at a resin temperature of >28°C. Keep catalyst away from reducing agents (e.g. amines, acids, alkalies) and heavy metal compounds (e.g. accelerators, dryers, metal soaps).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Provide general and/or local exhaust ventilation to control airborne concentrations below the recommended exposure guideline.
Exposure limits:	OES: long term (-) short term (2ppm).
Respiratory:	Do not breathe vapours. Ensure atmospheric levels are maintained below exposure guidelines. Use an approved air-purifying respirator when required for specific operations.
Eye protection:	Use goggles. If vapour exposure causes eye irritation, use a full-face respirator.
Protective clothing:	For prolonged or frequently repeated contact, use protective clothing impervious to this material.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Colourless.
Odour:	Stinging, like ketone.
Boiling point:	Not applicable.
Flash point:	52°C
Bulk density:	1.05g.cm ⁻³
Viscosity:	Calculated @ 20mPa.s

10. STABILITY & REACTIVITY

Stability:	Avoid direct contact with incompatible substances which may cause dangerous self-accelerating decomposition reaction.
Materials to avoid:	Only use stainless steel 316, PVC polyethylene or glass-lined equipment.
Hazardous decomposition products:	Decomposition causes inflammable gases. Incompatible with accelerators, strong acids, alkalis, heavy metal salts and reducing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:		
Oral LD50:	681mg/kg	(rat).
Inhalation LC50:	33mg/l	(4 hrs, rat).
Irritation:		
Eyes:	Irritating.	
Skin:	Irritating.	

12. ECOLOGICAL INFORMATION

Aquatic toxicity:	Has been classified as being dangerous to water. In case of spillage appropriate measures necessary.
Degradation:	Not readily biodegradable.
Bioaccumulation potential:	Bioconcentration factor (fish) 35.5

13. DISPOSAL CONSIDERATIONS

Product:	Dispose of spillage by diluting with organic solvents prior to burning and absorb remainder with vermiculite. Disposal of catalyst similar to resin but prior to burning, dilute with organic solvents and absorb remainder with vermiculite.
Other information:	Burn in small portions on a remote place using a torch with long rod to ignite material.

14. TRANSPORT INFORMATION

Proper shipping name:	Organic peroxide type D, liquid (Methyl ethyl ketone peroxide)		
Road/Rail ADR/RID Class:	5.2	ADR/RID Item No:	5b
UN No:	UN 3105	Trem Card No:	52G01B
Sea IMO/IMDG Class:	5.2	IMO/IMDG Code:	5225
UN No:	UN 3105	Packing Group:	II
Air IATA/ICAO Class:	5.2	Packing Group:	II
UN No:	UN 3105		
Packing Instruction (Pass & Cargo):	500	Packing Instruction (Cargo):	502

15. REGULATORY INFORMATION

Chemical name:	Methyl ethyl ketone peroxide, type D, liquid.
Labelling:	According to EEC directives relating to packaging and labelling of dangerous substances and Chemicals Hazard Information and Packaging for Supply (CHIPS) legislation.
Symbols:	(O) Oxidising. (C) Corrosive.
Risk phrases:	R8, Contact with combustible material may cause fire. R20/22, Harmful by inhalation and if swallowed. R34, Causes burns. R41, Risk of serious damage to eyes.
Safety phrases:	S3/7/9, Keep container tightly closed in a cool well ventilated place. S14, Keep away from reducing agents, acids and alkalis. S26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27, Take off immediately all contaminated clothing. S50, Do not mix peroxide accelerators with reducing agents.

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.