

1. IDENTIFICATION OF PREPARATION & OF COMPANY

Product: Surfactant for Water-based Epoxy System
Manufacturer: Chemco International Ltd
East Shawhead Industrial Estate
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Scotland United Kingdom
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2. HAZARDS IDENTIFICATION

Acute effects: Harmful if swallowed. Irritating to eyes and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or have occupational exposure limits detailed in EH40, these substances are listed below.

Product/Ingredient name	67/548/EEC Classification	Risk phrases	CAS No.	%
Polypropylene Glycol (MW 600)	Xn	R22	25322-69-4	
Ethoxylated 2, 4, 7, 9 tetramethyl 5 decyn-4, 7-diol	Xi	R36, R52/53	9014-85-1	

No additional ingredients are present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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: Foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media: High volume water jet.
Additional information: Burning produces irritant and toxic fumes. Carbon monoxide gas.
Special fire-fighting protection: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:	In case of vapour formation use a respirator. Open closed spaces to outside atmosphere. Wear protective clothing, boots, gloves and eye protection.
Environmental precautions:	Avoid subsoil penetration. Prevent product from entering Drains. Do not contaminate surface water.
Method for cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. Clean up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing.

7. ACCIDENTAL RELEASE MEASURES

Handling:	When handling do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin.
Additional information:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed stored in dry well ventilated area away from oxidisers. Do not store in reactive metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:	Not established.
Eye protection:	Tightly fitting safety goggles, face-shield.
Hand protection:	Rubber or plastic gloves.
Body protection:	Protective suit and safety shoes.
General personal protection:	Keep away from sources of ignition. No smoking. Avoid contact with skin, eyes and clothing.
Respiratory protection:	Not required under normal conditions in a well ventilated workplace. In unusual or abnormal working conditions and approved organic vapour respirator is recommended.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Slightly coloured.
Odour:	Slight.
Boiling point:	100°C @ 1013 hPa
Flash point:	Not applicable.
Density @ 20°C:	1.10g/cm ⁻³ (DIN 51757).

10. STABILITY & REACTIVITY

Conditions to avoid:	Not applicable.
Materials to avoid:	Strong oxidising agents
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, and nitrogen oxides. Irritating and toxic fumes at elevated temperatures.

DISCLAIMER: The information contained herein is to the best of our knowledge accurate and current and is given in good faith without warranty. Users are deemed to have satisfied themselves independently as to the suitability of our products for their particular purpose. In no event shall Chemco International be liable for consequent or incidental damages.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity (lethal dose) Oral LD50:	6300mg/kg (diol). (rat).
Acute toxicity (irritation, sensitization, etc).	
Eye:	Irritating. (rabbit).
Skin:	Irritating. (dermal rabbit).
Sensitization:	No data available. (dermal guinea pig).

12. ECOLOGICAL INFORMATION

Degradability:	Following data refers to information collated concerning the substance polypropylene glycol: Does not contain heavy metals except platinum, but in minute quantities (i.e. in ppm. concentration). No data is available for the diol chemical.
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13. DISPOSAL CONSIDERATIONS

Product:	Must be incinerated when in compliance with local, national or international regulations.
Container:	Empty containers can be land-filled after cleaning when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORT INFORMATION

All modes of transport:	This product is considered safe and is therefore suitable for all modes of transport.
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15. REGULATORY INFORMATION

Chemical name:	Surfactant for water-based epoxy system.
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. (Xn) Harmful.
Relevant risk phrases:	R22, Harmful if swallowed. R36, Irritating to eyes. R52/53, Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	S26, In case of contact with eyes, immediately rinse with plenty of water and seek medical attention. S46, If swallowed immediately seek medical attention and show this container or label.
TSCA Certifications:	All chemicals in this product are listed, or are exempt from listing, on the TSCA inventory.

16. OTHER INFORMATION

Risk phrases in full:

R22, Harmful if swallowed.

R36, Irritating to eyes.

R52/53, Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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 application.

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