

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

ENHANCE

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
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EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PH: +64 3 353 0199
CHEMICAL FAMILY: Quaternary / organic acid substituted phenol USE: Biocide (flower preservative)

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Inerts		<30	
Mixture: quaternary hydroxy biphenol		<40	
Surfactants (proprietary)		<50	
Water		balance	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Danger - this product is corrosive to the skin and may cause burns.
Danger - this product is corrosive and may cause eye damage.
Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.
Toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

4. FIRST - AID MEASURES:

EYE CONTACT: Flush affected eyes with flowing water for at least 15 minutes. Get prompt medical attention.
SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. Continue for at least 15 minutes. Wash clothing before reuse.
INHALATION: If ill-effects occur, move victim to fresh air.
INGESTION: If swallowed, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.
NOTES TO DOCTOR: No specific antidote.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: >93°C (PMCC) HAZCHEM Code: 2X
FLAMMABLE LIMITS: Not established.
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.
THERMAL DECOMPOSITION PRODUCTS: include oxides of carbon and nitrogen.
SPECIAL FIRE FIGHTING METHODS: Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Do not allow contaminated runoff to enter drains.
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Spills may be slippery and should be cleaned up immediately. Large spill: dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed away from foodstuffs.
Wear personal protective equipment appropriate to the situation when handling product.
Harmful - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Air respirator with organic vapour canister or self contained breathing apparatus when exposed to vapours from heated material.
PROTECTIVE CLOTHING: PVC-coated gloves. Avoid skin contact.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR: Clear to green coloured liquid with slight amine odour.

BOILING POINT:	Not Available.	pH:	2.0 - 2.3.
DENSITY:	1.10.	SETTING POINT:	Not Available.
DECOMPOSITION TEMP:	Not Available.	AUTOIGNITION TEMP:	Not Applicable.
FLASHPOINT:	>93°C (PMCC)	VAPOUR DENSITY:	Not Applicable.
EXPLOSION PROPERTIES:	Not Applicable.	VAPOUR PRESSURE:	Not Applicable.
SOLUBILITY:	Mixes readily with water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not Available.		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Moderate single dose toxicity. LD50 (male rat) 500 mg/kg. LD50 (mice) 975 mg/kg.
ACUTE DERMAL:
ACUTE INHALATION:
OTHER TOXICITY INFORMATION: 6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
8.2B; Danger - this product is corrosive to the skin and may cause burns.
8.3A; Danger - this product is corrosive and may cause eye damage.
6.5B; Harmful - may cause skin sensitisation from prolonged skin contact. Avoid skin contact.

12. ECOLOGICAL INFORMATION:

9.1B; Toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label, and container at an approved landfill or Agrecovery Depot. Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	Corrosive Liquid N.O.S.	UN Hazard Class:	8.
UN Number:	1760	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Alkyl dimethyl benzyl ammonium chloride.		

15. REGULATORY INFORMATION:

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.

ERMA Approval Code: HSR002503
See the ERMA Website for more details: www.ermanz.govt.nz

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.