

Material Safety Data Sheet

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

PRODUCT NAME: **HEADLAND MULTIPLE**
MANUFACTURER: Headland Agrochemicals
SUPPLIER NAME: Zelam Ltd
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 3 353 0199
CHEMICAL FAMILY: USE: Micronutrient fertiliser

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Inerts		Balance	
Copper Oxychloride	1332-40-7	10.5	
Zinc Oxide	1314-13-2	< 6	
Manganese Carbonate	598-62-9	< 40	
Magnesium Hydroxide	1309-42-8	20	

3. HAZARDS IDENTIFICATION:

Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
Harmful - may cause skin irritation. Avoid contact with skin.
Harmful - may cause eye irritation. Avoid contact with eyes.

Refer to Section 15 for NZ EPA Requirements.

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.
SKIN CONTACT: Remove contaminated clothing and wash with plenty of soap and water. DO NOT scrub the skin. Continue for at least 15 minutes. Wash clothing before reuse.
INHALATION: If ill-effects occur, move the victim to fresh air. If ill effects persist, seek medical assistance.
INGESTION: If swallowed, drink several glasses of water. DO NOT induce vomiting. Seek medical advice.
NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable HAZCHEM CODE: 2X
FLAMMABLE LIMITS: Not applicable
EXTINGUISHING MEDIA: Foam, Carbon dioxide, Dry chemical or Water spray (fog).
THERMAL DECOMPOSITION PRODUCTS: None known.
SPECIAL FIRE FIGHTING METHODS
UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.
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. It may be disposed of as an industrial waste in a manner acceptable to good waste management practice in a land fill and in compliance with all regulations.

7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.
Store in original container in a cool [above 5 °C], well ventilated place, away from direct sunlight and extreme heat.
Keep container tightly closed, away from food, food related materials, animal feedstuffs, seed or fertilizer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required.
PROTECTIVE CLOTHING: Chemical resistant gloves should be worn when handling this product. Avoid skin contact.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.
Use in a well ventilated area.
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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Opaque green liquid	pH:	9.3
BOILING POINT:	Not available	SETTING POINT:	Not available
DENSITY:	1.84	AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	Not available	VAPOUR DENSITY:	Not available
FLASHPOINT:	Not applicable	VAPOUR PRESSURE:	Not available
EXPLOSION PROPERTIES:	Not available		
SOLUBILITY:			
OTHER DATA:			
OCATANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

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

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50; >2000 mg/kg.bw [by calculation]
ACUTE DERMAL:	LD50; >4000 mg/kg.bw [by calculation]
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	
6.1E;	Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.
6.3B;	Harmful - may cause skin irritation. Avoid contact with skin.
6.4A;	Harmful - may cause eye irritation. Avoid contact with eyes.

12. ECOLOGICAL INFORMATION:

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

13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in a suitable landfill.
Dispose of product only by using according to this label, or at an approved disposal facility.
Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	UN Hazard Class:	9.
UN Number:	3082	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Copper Oxychloride, Zinc Oxide, Manganese Carbonate & Magnesium Hydroxide		

15. REGULATORY INFORMATION:

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

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: Fertilisers (Subsidiary Hazard) Group Standard HSR002571
See <www.epa.govt.nz> for controls.

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 product's properties.