

## Safety Data Sheet

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

PRODUCT NAME: **Headland Zinc 150**  
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 4 917 9888  
CHEMICAL FAMILY: USE: Micronutrient

#### 2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.  
9.1A; Very toxic to fish/aquatic organisms with long-lasting effects.  
9.3C; Harmful to terrestrial vertebrates [birds]  
Refer to Section 15 for NZ EPA Requirements.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Zinc Sulphate	7733-02-0	30 - 50	
Ethylene Glycol	107-21-1	< 10	
Inerts		Balance	

#### 4. FIRST - AID MEASURES:

EYE CONTACT: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention. Corneal burns may occur.

SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. Continue for at least 15 minutes. Wash clothing before reuse. Seek medical attention.

INHALATION: Avoid inhalation of spray or mists which are likely to be highly irritating. Remove to a source of fresh air and seek medical advice.

INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: Ingestion may irritate digestive tract. Avoid lung aspiration. Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable HAZCHEM CODE: 2 X

FLAMMABLE LIMITS:

EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide, halon

THERMAL DECOMPOSITION PRODUCTS: In combustion emits toxic fumes.

SPECIAL FIRE FIGHTING METHODS Use self-contained breathing apparatus.

UNUSUAL FIRE OR EXPLOSION HAZARDS:

#### 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate personal protective equipment such as gloves protective eye glasses and impervious vinyl or tyvec outer clothing. 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. 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.

Minimise runoff into waterways or drains as this substance is very toxic to aquatic organisms. Avoid contamination of any water supply.

#### 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed, away from food, food related materials or animal feedstuffs.  
Chemical resistant gloves and eye protection should be worn when handling this product. Avoid skin or eye contact. Recommended to have a source of fresh water available for flushing skin and eyes.  
If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn. Wash protective clothing daily after work.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: WES set for Ethylene Glycol [CAS 107-21-1]; TWA Ceiling - 50 ppm - 127 mg/m<sup>3</sup>.  
No exposure limits (EELs) have been specifically assigned for this product.

EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.

RESPIRATORY PROTECTION: Avoid breathing in mist or aerosol from the product. Use an appropriate respirator if exposed to the mist or aerosol from the product.

PROTECTIVE CLOTHING: Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn.

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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:	Pale purple liquid		
BOILING POINT:	Not available	pH:	~ 2.5
DENSITY:	1.34	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not applicable	AUTOIGNITION TEMP:	Not applicable
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable	VAPOUR PRESSURE:	Not available
SOLUBILITY:	Dispersible in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

### 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID:	Avoid strong oxidising agents, strong acids and heat
HAZARDOUS DECOMPOSITION	Thermal decomposition may release toxic fumes.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	No data
ACUTE DERMAL:	No data
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	May be harmful if swallowed, inhaled or absorbed through the skin. This product is corrosive and may cause eye damage. May cause organ damage from repeated oral exposure at high doses.

### 12. ECOLOGICAL INFORMATION:

Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.  
Harmful to terrestrial vertebrates [birds].

### 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 approved 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 (Zinc sulphate)		
UN Number:	3082	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X
Additional Information:	Do not carry more than 1 L of this product on a passenger service vehicle.		

### 15. REGULATORY INFORMATION:

APPROVED HANDLER: The product must be under the personal control of an approved handler when:  
a) the product is applied in a wide dispersive manner.  
However, it may be handled by a person who is not an approved handler if:  
- an approved handler is present at the facility where the substance is being handled; and  
- the approved handler has provided guidance to the person in respect to the handling of the product; and  
- the approved handler is available at all times to provide assistance if necessary.

No person may use this product as a pesticide or veterinary medicine.

RECORD KEEPING: A written record of use is required if 3 kg or more of this product is used within 24 hours in a place where:  
a) public may lawfully be present; or  
b) the substance is likely to enter air or water supply and leave the place where it is under control.  
The information must be kept for a minimum of three [3] years.

NZ EPA Approval Code: Fertilisers (Subsidiary Hazard) Group Standard, HSR002571  
See the NZ EPA Website for more details: [www.epa.govt.nz](http://www.epa.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 product's properties.