

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

### HEADLAND VANIR

SUPPLIER NAME: Zelam Limited  
MANUFACTURER: Headland Agrochemicals Ltd  
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: USE: Micronutrient

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Ethylene Glycol	107-21-1	< 10	
Inerts		Balance	
Trace minerals		< 25	Non-hazardous

## 3. HAZARDS IDENTIFICATION:

Not considered a hazardous substance.

## 4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.  
SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. 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, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.  
NOTES TO DOCTOR: Treat symptomatically.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM Code: 2 [Z]  
FLAMMABLE LIMITS: Not applicable.  
EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide.  
THERMAL DECOMPOSITION PRODUCTS: In combustion emits toxic fumes.  
SPECIAL FIRE FIGHTING METHODS: Use self-contained breathing apparatus.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: None.

## 6. ACCIDENTAL RELEASE MEASURES:

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 run-off into waterways or drains.

## 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.  
Do not allow to freeze, store above 5 °C  
Wear eye protection. Impervious gloves should be worn at all times.  
Wear other personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: WES set for Ethylene Glycol [CAS 107-21-1] - 8h TWA (ceiling): 50 ppm - 127 mg/m<sup>3</sup>.  
No TEL, or EELs exposure limits 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: Not normally required. Exceptions: during the formation of mists or aerosols or in the case of fire.  
PROTECTIVE CLOTHING: PVC-coated gloves. Avoid skin contact. Wear other protective clothing such as waterproof hat, coat and trousers (worn outside rubber boots) when using. Wash protective clothing daily after work.  
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: Beige liquid  
BOILING POINT: Not available. pH: ~ 9  
DENSITY: 1.48 SETTING POINT: Not available.  
DECOMPOSITION TEMP: Not available. AUTOIGNITION TEMP: Not applicable.  
FLASHPOINT: Not applicable. VAPOUR DENSITY: Not available.  
EXPLOSION PROPERTIES: Not applicable. VAPOUR PRESSURE: Not available.  
SOLUBILITY: Miscible 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. Avoid heat.  
MATERIALS TO AVOID: Avoid strong acids and strong oxidising agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: In combustion emits toxic fumes.

### **11. TOXICOLOGICAL INFORMATION:**

ACUTE ORAL: Not considered to be toxic.  
ACUTE DERMAL: Not considered to be toxic.  
ACUTE INHALATION:  
OTHER TOXICITY INFORMATION: This product should present no significant problems if used as intended.  
May cause mild skin and eye irritation. Avoid contact with skin or eyes.

### **12. ECOLOGICAL INFORMATION:**

Not likely to be toxic to the environment.  
Biodegradable and has no bioaccumulation potential.

### **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: Not Classified as Dangerous Goods for Transport UN Hazard Class: N/A  
UN Number: N/A Packing Group: N/A  
Hazchem Code: 2 [Z]  
Additional Information: Contains trace minerals

### **15. REGULATORY INFORMATION:**

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.  
Not Regulated by NZ EPA.

### **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.