

# Material Safety Data Sheet

Revised Date: 16/06/2015

**HEADLAND MOLYBDENUM 250**

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

PRODUCT NAME: **HEADLAND MOLYBDENUM 250**  
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: Foliar fertiliser

## 2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.  
8.1A; Warning - this product is corrosive to metal.  
8.2C; Danger - this product is corrosive to the skin and may cause burns.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
9.1D; Harmful to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.  
9.3C; Harmful to terrestrial vertebrates  
Refer to Section 15 for NZ EPA Requirements.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Orthophosphoric Acid	7664-38-2	< 30	
Sodium Molybdate	10102-40-6	<30	
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: 2X  
FLAMMABLE LIMITS: No data  
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. 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, tightly closed under lock and key, away from food, food related materials, animal feedstuffs, seed or fertilizer.  
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 Orthophosphoric Acid [CAS 7664-38-2]; 8h TWA - 1 mg/m<sup>3</sup>; 15min STEL - 2 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.  
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.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Yellow liquid	pH:	~ 3.5
BOILING POINT:	Not available	SETTING POINT:	Not available
DENSITY:	1.63	AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	Not applicable	VAPOUR DENSITY:	Not available
FLASHPOINT:	Not applicable	VAPOUR PRESSURE:	Not available
EXPLOSION PROPERTIES:	Not applicable		
SOLUBILITY:	Soluble in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

### 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Heat
MATERIALS TO AVOID:	Avoid strong oxidising agents, strong bases.
HAZARDOUS DECOMPOSITION	Thermal decomposition may release toxic fumes.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 1530 mg/kg (Orthophosphoric acid)
ACUTE DERMAL:	Not determined due to corrosivity
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	Harmful if swallowed or inhaled, likely to soreness, redness and irritation of mouth and throat. Corrosive to the skin and eyes and may cause skin burns and eye damage.

### 12. ECOLOGICAL INFORMATION:

Harmful to fish/aquatic organisms with long-lasting effects and harmful to terrestrial vertebrates [birds]  
Avoid contamination of any water supply with this product or empty container.  
The product is expected to biodegrade in the environment. Bio-accumulation is considered unlikely.

### 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:	CORROSIVE LIQUID, N.O.S. (Orthophosphoric Acid & Sodium Molybdate )		
UN Number:	1760	UN Hazard Class:	8
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:

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

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: Fertilisers (Corrosive) Group Standard, HSR002569 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.