



# MANTISSA

## PRODUCT SAFETY DATA SHEET

1. **Product Name:** **Headland Choice**  
An agricultural fungicide

**Marketed by:**  
Mantissa Corporation Ltd, New Zealand.

**Contact Points:**  
Mantissa Corporation Ltd  
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### IDENTIFICATION

**Product Name:** HEADLAND CHOICE  
(Cupric Hydroxide 350SC– Agricultural Fungicide)  
**Proper Shipping Name:** COPPER BASED PESTICIDE, LIQUID, TOXIC  
**Other Names:**  
**Manufacturer's Product Code:** CU-010  
**U.N. Number:** 3010  
**Dangerous Goods Class:** 6  
**Hazchem Code:** 2Z  
**Packing Group:** III  
**Toxic Substances Schedule:** Not Applicable

**Uses:** For control of downy mildew in grapes.

#### Physical Description/Properties

**Appearance:** Blue/green Liquid  
**Boiling Point/Melting Point:** Not Available  
**Vapour Pressure:** Not Available  
**Specific Gravity:** 1.47g/mL @ 25°C  
**Flash Point:** None  
**Flammability Limits:** LFL: Not Applicable UFL: Not Applicable  
**Solubility in Water:** Soluble Suspension Concentrate.

#### Other Properties

Ingredients	CAS No.	Content (% w/v)
Cupric Hydroxide	20427-59-2	350g/L
Wetting Agent, Dispersing Agent, Thickening Agent, Antifoam, Biocide		<200g/L
Water		up to 100%

## HEALTH HAZARD INFORMATION

### Health Effects

#### Acute

**Swallowed:** Single dose oral toxicity is slightly toxic. Rat LD<sub>50</sub> > 2000mg/kg.

**Eye:** **DANGER** – causes severe eye irritation.

**Skin:** No more than slightly irritating.

**Inhaled:** No more than slightly toxic.

**Chronic:** No information available.

#### First Aid

**Swallowed:** If victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

**Eye:** Immediately hold eyelids open and flush with plenty of water. Seek medical attention.

**Skin:** Remove with soap and water. Wash heavily contaminated clothing before reuse.

**Inhaled:** Remove person to fresh air. If not breathing, give CPR. Seek medical attention.

**First Aid Facilities:** Eye wash, soap and water.

**Advice to Doctor:** Treat symptomatically.

## PRECAUTIONS FOR USE

**Exposure Standards:** Not Applicable

**Engineering Controls:** Good general ventilation should be sufficient for most conditions.

**Personal Protection:** Wear safety goggles, waterproof gloves, boots and cotton overalls.

**Flammability:** Not flammable.

## SAFE HANDLING INFORMATION

**Storage and Transport:** Store in tightly closed original containers in a cool, well-ventilated place away from foodstuffs. Avoid contact with foodstuffs during transport.

**Spills and Disposal:** Wear Protective clothing. Apply absorbent material such as earth, sand or clay to the spill area. Bury contaminated material at an approved landfill. Disposal must be in accordance with National, Regional and District requirements.

**Fire/Explosion Hazard:** Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Combustion of this product will generate Sulphur Dioxide gas.

## OTHER INFORMATION

## CONTACT POINT

For further product information call the Technical Manager at Mantissa Corporation Ltd on 07 827 4856 during business hours.

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