

PRODUCT SAFETY DATA SHEET

HEADLAND COPPER

1. Identification of the Preparation and the Company:

Trade Name: HEADLAND INORGANIC LIQUID COPPER
A fungicide and micronutrient for use in agriculture and horticulture

Company Identification:

Headland Agrochemicals Ltd
Rectors Lane
Pentre
Deeside
Flintshire CH5 2DH
U.K.

Tel: +44(0) 1244 537370
Fax: +44(0) 1244 532097
E-Mail: enquiry@headlandgroup.com

2. Hazards

Harmful if swallowed
Very toxic to aquatic organisms
May cause long-term adverse effects in the aquatic environment

3. Composition:

A suspension concentrate containing 435 g/l copper oxychloride (equivalent to 256 g/l copper)

Hazardous components:

Copper oxychloride

Hazard symbol:

Irritant Xi, Dangerous for the Environment N

Risk phrases:

R36 Irritating to eyes

R42/43 May cause sensitisation by inhalation or skin contact.

R50 Very toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

Monoethylene glycol

Hazard Symbol:

Harmful Xn

Risk Phrase:

R22 Harmful if swallowed

4. First Aid Measures:

Eyes: Irrigate with clean water for at least 15 minutes. Seek medical attention if any irritation or redness persists.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water.

Ingestion: If swallowed wash out mouth with water. Give 500 ml of water to drink. Keep patient at rest and obtain medical advice.
Inhalation: Remove from exposure and provide maximum ventilation

5. Fire Fighting Measures

Headland Copper will not burn

If involved in a fire, fumes and vapours may be harmful. Fire fighters should wear breathing apparatus.

Use dry chemical, foam, water spray, sand or earth. Prevent entry of the product or contaminated water into watercourses ditches or drains by bunding the area with sand or earth if possible.

6. Accidental Release (Spillage)

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Keep bystanders away. Absorb spillage with inert material (e.g. sand or earth), shovel or sweep up and transfer to a container for later removal to a safe place for disposal.

Flush the area with plenty of water when all the spillage has been removed. Prevent the spillage from entering watercourses or drains. Inform the authorities if contamination of waterways or drains is threatened or occurs.

7. Storage and Handling

Wash hands and exposed skin before meals and after work.

Keep in original container, tightly closed.

Keep cool, dry and frost-free in a suitable agricultural chemical store.

Keep away from food, drink and animal feedingstuffs and out of reach of children.

Do not store in direct sunlight.

8. Personal Protection

Wear suitable protective gloves.

Wash hands and exposed skin before meals and after work

Avoid breathing the spray mist when using.

Occupational Exposure Limits: None assigned

9. Physical and Chemical Properties

Appearance: An opaque blue-green liquid

Odour: Faint, chemical

Solubility: Completely disperses in water

Specific Gravity: 1.35 +/- 0.10

pH: 5.2 – 5.4

Surface tension: 50.2mNm⁻¹

Explosivity: Non-explosive

Oxidising properties: Not an oxidiser

Flashpoint: Will not burn

Autoflammability: Will not burn

10. Stability and Reactivity

Stability: Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Do not allow to freeze.
Reactivity: may be corrosive to metals.

11. Toxicological Information

Acute Toxicity:

Acute oral LD50 <2000 mg/kg.bw (rat)
Acute dermal LD50: >4,000 mg/kg.bw (rat)
Inhalation: No data
Irritancy: Not classified as an irritant

12. Environmental Protection

This product is very toxic to fish and other aquatic life. Do not contaminate surface waters or ditches with chemical or used container.

This product may be harmful to livestock. Keep livestock out of treated areas for at least 3 weeks after application.

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical.

Triple-rinse and puncture used containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

14. Transport Information

Road Transport: Environmentally hazardous liquid
UN Number: 3082
Proper Shipping Name: Environmentally hazardous substance, liquid, NOS (contains copper oxychloride 32.2% w/w)
UN Class 9
CPL Packing Group: III
ADR/RID Description: Marine pollutant
IMDG Class: Marine pollutant 9

14. Regulatory Information

Hazard Symbols: Harmful Xn
Dangerous for the environment N

Risk Phrases:
R22 Harmful if swallowed
R50 Very toxic to aquatic organisms
R53 May cause long-term adverse effects in the aquatic environment

Safety Phrases:
S2 Keep out of reach of children
S23 Do not breathe spray
S35 This material and its container must be disposed of in a safe way.
S46 If swallowed, seek medical advice immediately and show the container or label.
S57 Use appropriate containment to avoid environmental contamination.

16. Other Information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Revised:	November 2008
Replaces issue dated:	June 2006
Sections updated since last issue:	Marked † in margin.

Headland is a registered trademark.

Headland Copper is registered for use as an agricultural fungicide in

United Kingdom – registration no. M 13009

New Zealand – registration no. 004970

Australia – registration no. 49658