

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name:** HEADLAND COPPER

**Product code:** NP-0050

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of substance / mixture:** A micronutrient suspension concentrate, for use in agriculture.

### 1.3. Details of the supplier of the safety data sheet

**Company name:** Headland Agrochemicals

Rectors Lane

Pentre

Flintshire

CH5 2DH

United Kingdom

**Tel:** +44(0)1244 537370

**Fax:** +44(0)1244 532097

**Email:** [flintshire.enquiry@fmc.com](mailto:flintshire.enquiry@fmc.com)

### 1.4. Emergency telephone number

**Emergency tel:** +44(0)1244 537370

(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CHIP:** Xn: R20/22; N: R50

**Classification under CLP:** \* Aquatic Acute 1: H400; Aquatic Chronic 2: H411; -: EUH208

**Most important adverse effects:** Harmful by inhalation and if swallowed. Very toxic to aquatic organisms.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** \* H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

**Signal words:** Warning

**Hazard pictograms:** GHS09: Environmental



# SAFETY DATA SHEET

## HEADLAND COPPER

Page: 2

**Precautionary statements:** P273: Avoid release to the environment.  
P391: Collect spillage.  
P501: Dispose of contents/container to hazardous or special waste collection point.

### Label elements under CHIP:

**Hazard symbols:** Harmful.  
Dangerous for the environment.



**Risk phrases:** R20/22: Harmful by inhalation and if swallowed.  
R50: Very toxic to aquatic organisms.

**Safety phrases:** S60: This material and its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

DICOPPER CHLORIDE TRIHYDROXIDE - REACH registered number(s): 01-2119966120-46-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-572-9	1332-65-6	Xn: R20/22; N: R50	Acute Tox. 4: H302+332; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	30-60%

ETHANE-1,2-DIOL - REACH registered number(s): 01-2119456816-28-XXXX

203-473-3	107-21-1	Xn: R48/22	Acute Tox. 4: H302; STOT RE 2: H373	1-10%
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**Contains:** Contains 1,2-Benzisothiazolin-3-one (CAS number 2634-33-5) at a level below the concentration limit for classification of the mixture as sensitising.

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor if irritation develops.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor if irritation persists or problems with vision occur.  
**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Seek medical attention if any symptoms develop.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be mild irritation at the site of contact.

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# SAFETY DATA SHEET

HEADLAND COPPER

Page: 3

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

## 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** \* Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** \* Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. In the case of large spills (1 ton or more), alert the appropriate authorities.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** \* Surface water drains within close vicinity of the spill should be covered. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area.

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# SAFETY DATA SHEET

HEADLAND COPPER

Page: 4

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Protect from frost. Store above 5°C. Store in a cool, well ventilated area. Keep away from direct sunlight. Do not store near direct sources of heat. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**DICOPPER CHLORIDE TRIHYDROXIDE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1 mg/m3	2 mg/m3	-	-

**ETHANE-1,2-DIOL**

UK	52 mg/m3 (vapour)	104 mg/m3 (vapour)	-	-
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### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** The floor of the storage room must be impermeable to prevent the escape of liquids.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Protective gloves. Nitrile gloves. Butyl gloves. PVC gloves. Rubber gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Green

**Odour:** Barely perceptible odour

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Dispersible in water

**Relative density:** 1.31 - 1.35

**pH:** 7.0 - 9.0

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# SAFETY DATA SHEET

HEADLAND COPPER

Page: 5

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>3000 (calculated)	mg/kg

#### Hazardous ingredients:

##### DICOPPER CHLORIDE TRIHYDROXIDE

DERMAL	RBT	LD50	>2000	mg/kg
DUST/MIST	RAT	4H LC50	4.74	mg/l
ORAL	RAT	LD50	1398	mg/kg

##### ETHANE-1,2-DIOL

IVN	RAT	LD50	3260	mg/kg
ORAL	MOUSE	LD50	5500	mg/kg
ORAL	RAT	LD50	4700	mg/kg

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# SAFETY DATA SHEET

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Page: 6

## Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH ING	Hazardous: calculated

## Symptoms / routes of exposure

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Delayed / immediate effects:** No data available.

## Section 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity values:

Species	Test	Value	Units
ALGAE ( <i>Raphidocelis sucapitata</i> )	72H ErC50	0.730 (calculated)	mg/l
DAPHNID ( <i>Daphnia magna</i> )	48H EC50	0.206 (calculated)	mg/l
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	1.03 (calculated)	mg/l

#### Hazardous ingredients:

##### DICOPPER CHLORIDE TRIHYDROXIDE

ALGAE ( <i>Raphidocelis supcapitata</i> )	72H ErC50	0.238	mg/l
DAPHNID ( <i>Daphnia magna</i> )	48H LC50	0.067	mg/l
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	0.336	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No data available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** Toxic to aquatic organisms.

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# SAFETY DATA SHEET

HEADLAND COPPER

Page: 7

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

**Waste code number:** 02 01 08

**Disposal of packaging:** Clean with water. Dispose of as normal industrial waste. Treat the cleaning water following the above method for waste product.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN3082

### 14.2. UN proper shipping name

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(DICOPPER CHLORIDE TRIHYDROXIDE)

### 14.3. Transport hazard class(es)

**Transport class:** 9

### 14.4. Packing group

**Packing group:** III

### 14.5. Environmental hazards

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** E

**Transport category:** 3

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk:** The product is not transported in bulk tankers.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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# SAFETY DATA SHEET

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Page: 8

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH208: Contains <name of sensitising substance>. May produce an allergic reaction.

H302: Harmful if swallowed.

H302+332: Harmful if swallowed or if inhaled.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

R20/22: Harmful by inhalation and if swallowed.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50: Very toxic to aquatic organisms.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.