

PRODUCT SAFETY DATA SHEET

HEADLAND MANGANESE 500

1. Identification of the Preparation and the Company:

Trade Name: HEADLAND MANGANESE 500

Function: A micronutrient for use in agriculture and horticulture

Marketed by:

Headland Agrochemicals Ltd.

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2. Hazards:

May be irritating to skin and eyes

May irritate digestive tract causing vomiting and diarrhoea.

Contains 1,2-benzisothiazolin. May cause an allergic reaction.

Not classified as hazardous according to the EC Dangerous Products Directive

3. Composition/ Information on Ingredients:

Chemical Name	CAS No	Class	%w/v
Manganese carbonate	598-62-9	n/a	101.6
1,2-benzisothiazolin 20% in dipropylene glycol	2634-33-5	Xn (R22/38/43) N (R50/53)	0.10

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 drink plenty of milk or water and seek medical advice.

Inhalation: Remove from exposure and provide maximum ventilation

5. Fire Fighting Measures

Headland Manganese 500 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. Inform the authorities if contamination of water is threatened or occurs.

6. Accidental Release (Spillage)

Wear suitable protective clothing (see Section 8 below).

Cover the spillage with inert absorbent material (sand, earth etc), shovel up and transfer to a container for later remove 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 sewers or drains. Inform the authorities if contamination of water is threatened or occurs.

7. Storage and Handling

Keep in original container, tightly closed

Keep cool and dry in a suitable chemical store under lock and key

Keep away from food, drink and animal feedingstuffs and out of reach of children. Shake the container well before opening.

Do not allow to freeze. Store above 5°C

8. Personal Protection

Wear suitable protective gloves and faceshield when handling the concentrated product. Avoid breathing the spray mist when using.

Occupational Exposure Limits: None assigned.

9. Physical and Chemical Properties

Appearance: a cream to pale brown smooth opaque liquid

Odour: faint, chemical

Specific Gravity: Approx. 1.825

pH: 6

Flashpoint: Will not burn

Explosive properties: Not explosive

Oxidising properties: Not an oxidiser

Solubility: Completely miscible in water

10. Stability and Reactivity

Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Do not allow to freeze. Store above 5°C.

Reactivity: avoid strong acids

11. Toxicological Information

This product is of low toxicity:

Acute oral LD50:	>2,000 mg/kg.bw (calculated)
Acute dermal LD50:	>2,000 mg/kg.bw (calculated)
Irritancy:	May be mildly irritating to skin and eyes May irritate digestive tract if swallowed

12. Environmental Protection

Ecotoxicity:

This product is expected to be of low toxicity to aquatic organisms

Bio-accumulation:

Bio-accumulation is considered unlikely

Do not contaminate surface waters or ditches with chemical or used containers

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:	Not hazardous
UN Number:	No UN Number
Proper Shipping Name:	Non-hazardous
IMDG Class:	Not applicable
CPL Packing Group:	Not applicable

15. Regulatory Information

No statutory phrases or symbols apply

Advisory phrases:

S2	Keep out of reach of children
S7/49	Keep in original container, tightly closed
S13	Keep away from food, drink and animal feedingstuffs
S37/39	Wear suitable protective gloves and face protection

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.

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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.

Further information from: Headland Agrochemicals Ltd.

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