

PRODUCT SAFETY DATA SHEET

HEADLAND SPEAR

1. Identification of the Product and the Company:

Product Name: HEADLAND SPEAR

Function: A herbicide for use in agriculture, horticulture and industry

Marketed by:

Headland Agrochemicals Ltd.

Contact Points:

In all cases of emergency and for further advice, contact

Headland Agrochemicals Ltd

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2. Hazards:

Harmful if swallowed. Risk of serious damage to eyes. Irritating to respiratory system. Very toxic to aquatic organisms. EU Classification Xn (Harmful)

3. † Composition:

<u>Ingredient</u>	<u>CAS No</u>	<u>Conc'n</u>	<u>Class'n</u>	<u>Risk Phrases</u>
MCPA	94-74-6	500 g/l	Xn	R22/38/41
4-chloro-2-methylphenol	1570-64-5	3.0 g/l	T; C; N	R23; R35; R50

4. First Aid Measures:

Eyes: Irrigate gently with clean water for at least 15 minutes. Send to hospital without delay.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. Wash contaminated clothing before re-use. Seek medical attention if any irritation or redness persists

Ingestion: Rinse out mouth. Do NOT induce vomiting. If swallowed seek medical advice immediately and show the container label.

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Guide to Doctors:

This product is a phenoxy herbicide of moderate toxicity. There is no specific antidote. Treat symptomatically.

5. Fire Fighting Measures

Headland spear will not burn. If involved in a fire, decomposition fumes and vapours will be toxic and include oxides of nitrogen and carbon, chlorine and hydrochloric acid.. Fire fighters should wear breathing apparatus. Use dry chemical, foam, water spray, carbon dioxide, sand or earth. Avoid use of high-pressure water jets. 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. Recover gross spillage by pumping using an explosion-proof pump. Absorb small quantities onto a suitable absorbent (sand or earth). Transfer to a labelled 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 sewers or drains. Inform the authorities if contamination of waterways, sewers or drains is threatened or occurs.

7. Storage and Handling

Keep in original container, tightly closed.
Keep cool and dry in a suitable agricultural chemical store under lock and key
Keep away from food, drink and animal feedingstuffs and out of reach of children.
Avoid contact with skin, eyes or clothing. Avoid breathing vapours.

8. † Personal Protection

Wear coveralls, suitable protective gloves (PVC or nitrile-rubber) and face-shield to BS2092 when handling the concentrated product or contaminated surfaces and dealing with spillages. Wear suitable respiratory equipment in cases of insufficient ventilation. Avoid breathing the spray mist when using. Decontaminate all personal protective equipment after use.

Occupational Exposure Limits: None assigned

9. † Physical and Chemical Properties

Appearance: a clear brown liquid
Odour: characteristic, fishy amine odour
Boiling point/range: >100°C (at 1013 hPa)
Flash point: >110°C (by EN/DIN 22719)
Vapour pressure: Negligible
Solubility: Completely miscible in water
Specific Gravity: 1.13
pH: 6.4

10. † Stability and Reactivity

Stability: Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions.
Reactivity: Avoid contact with strong acids, strong bases and oxidising agents. May corrode aluminium and zinc.

Decomposition: may generate oxides of carbon and nitrogen and hydrogen chloride if heated to decomposition.

11. † Toxicological Information

Acute Toxicity:

Acute oral LD50: 1000 mg/kg.bw (rat)

Acute dermal LD50: >2000 mg/kg.bw (rat)

Inhalation LC50: >4.72 mg/l for 4 hours (rat)

Irritancy: Irritating to skin.

Severe eye irritant. Risk of serious damage to eyes

Allergic sensitisation: Not a sensitiser in the M-K Maximisation Test

12. Environmental Protection

Very toxic to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container.

LC50 (96 hour): Rainbow trout 44 mg/litre

EC50 (48 hour): Daphnia >190 mg/litre

EC50 (120 hour): Algae 36.9 mg/litre

Behaviour in soils: Rapidly degraded in soils (t50=20 days). Low bioaccumulation potential (log Pow = -0.71 at pH7)

13. Disposal of Unwanted Product and Used Containers

Consult the local authorities before disposing of unwanted chemical. It is recommended that the chemical is mixed with a combustible solvent and burned in a chemical incinerator equipped with an afterburner and scrubber. Dispose of containers by burning or as permitted by local authorities. Do not re-use containers for any purpose.

14. † Transport Information

Road Transport: Not classified

UN Number: None

Proper Shipping Name: None

UN Class: None

CPL Packing Group: None

IMDG Class: Not classified

15. Regulatory Information

Hazard Symbol: Harmful Xn

Dangerous for the Environment N

Risk Phrases:

R22 Harmful if swallowed

R37 Irritating to respiratory system

R41 Risk of serious damage to eyes

R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S2 Keep out of reach of children

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S35	This material and its container must be disposed of in a safe way.
S39	Wear eye/face protection
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.

Headland spear is approved by the Chemicals Regulation Directorate for use as a herbicide. Registration No. MAPP 14910

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