

PRODUCT SAFETY DATA SHEET

1. **1. Product Name:** -
HERBOXONE
A herbicide for use in agriculture

Marketed by:
Headland Agrochemicals Ltd.

Contact Points:

In all cases of emergency and for further advice, contact
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2. **2. Composition:**

Ingredient Phrases	CAS No	Conc'n	Class'n	Risk
2,4-D	94-75-7	500 g/l	Xn,Xi	R20/22, R36
Dichloro-Phenol	120-83-2	<2 g/l	T+,C	R26/27/28,R35

3. **Hazards:**
Harmful if swallowed. Risk of serious damage to eyes. EU Classification Xn (Harmful)

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.
Seek medical attention if any irritation or redness persists.
- Ingestion: Check breathing and heartbeat and give cardiac massage/artificial respiration if necessary.
If conscious, give plenty of water to drink.
Keep patient at rest and obtain medical attention/send to hospital immediately. Do not induce vomiting
- Inhalation: Remove from exposure and provide maximum ventilation
If unconscious, secure airway and place in recovery position
If heart-beat is absent, give external cardiac compression
If there is coughing or difficulty breathing, keep at rest in a position of maximum comfort

If there is cyanosis (blueness of lips) administer oxygen by facemask. Send to hospital without delay.

5. 5. Fire Fighting Measures

Herboxone will not burn. If involved in a fire, decomposition fumes and vapours will be toxic. Fire fighters should wear breathing apparatus. Use dry chemical, foam, water spray, carbon dioxide, 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. Recover gross spillage by pumping using an explosion-proof pump or 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 proper authorities if gross 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 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 dark brown liquid
Odour: characteristic, fishy amine odour
Boiling point/range: >100°C
Vapour pressure: Negligable
Solubility: Completely miscible in water
Specific Gravity: 1.12 – 1.15
PH: 7.5 – 9.5

10. 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 and oxidising agents. May corrode aluminium and zinc.

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

11. 11. Toxicological Information

Acute Toxicity:

Acute oral LD50: 949 mg/bg.bw (rat)
Acute dermal LD50: >2000 mg/kg.bw (rat)
Inhalation LC50: No data
Irritancy: Irritating to skin.
Risk of serious damage to eyes

12. Environmental Protection

Harmful to fish or other aquatic life and dangerous to higher aquatic plants.
Do not contaminate surface waters or ditches with chemical or used container.

LC50 (96 hour): Rainbow trout 240 mg/litre

Behaviour in soils: Rapidly degraded in soils (t50= <7 days). Low bioaccumulation potential

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. 14. Transport Information

Road Transport: Environmentally hazardous liquid
UN Number: 3082
Proper Shipping Name: Environmentally hazardous substances, liquid,
N.O.S (Contains 2,4-D 500 g/l)
UN Class: 9
CPL Packing Group: III
ADR/RID Description: Marine pollutant
IMDG Class: 9

15. 15. Regulatory Information

Hazard Symbol: Primary Symbol Harmful Xn
Secondary symbol Irritant Xi
Risk Phrase: R22 Harmful if swallowed
R41 – Risk of serious damage to eyes

S phrases:

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	Wear suitable protective clothing, gloves and eye/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. 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.

Herboxone is approved by MAFF Pesticides Safety Directorate for use as a herbicide.

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