

PRODUCT SAFETY DATA SHEET

HEADLAND SPRUCE

1. Identification of the Preparation and the Company:

Trade Name: HEADLAND SPRUCE

A herbicide for use in agriculture

Company Identification:

Headland Agrochemicals Ltd

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Deeside

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2. Hazards:

Harmful if swallowed.

Risk of serious damage to eyes.

May cause sensitisation by skin contact

Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

EU Classification Xn (Harmful), N (Dangerous for the Environment)

3. Composition/Information on Ingredients:

<u>Ingredient</u>	<u>CAS No</u>	<u>Conc'n</u>	<u>Class'n</u>	<u>Risk Phrases</u>
2,4-DB	94-86-2	33.6% w/w	Xn,N	R22, R51/53

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: Rinse out mouth. DO NOT induce vomiting. Keep patient at rest and obtain medical attention/send to hospital without delay and show the container/label.

Inhalation: Remove from exposure and provide maximum ventilation. Call a doctor if any symptoms persist.

Guide to

Doctors: There is no specific antidote to this product. Treatment should be symptomatic and supportive.

5. Fire Fighting Measures:

Headland Spruce will not burn. If involved in a fire, decomposition fumes and vapours will be toxic and may include hydrogen chloride, chlorine and oxides of carbon and nitrogen. Fire fighters should wear breathing apparatus.

Use dry chemical, foam, water spray, carbon dioxide, sand or earth. Avoid 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 or absorb smaller quantities onto a suitable absorbent (sand, silica gel, sawdust 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. Protect from frost. Do not store in direct sunlight or near direct sources of heat.

Avoid contact with skin, eyes or clothing. Avoid breathing vapours.

8. Personal Protection:

Wear coveralls, suitable protective gloves (PVC or nitrile) and face-shield to BS2092, goggles or safety glasses when handling the concentrated product or contaminated surfaces and dealing with spillages. Avoid breathing the spray mist when using.

Decontaminate all personal protective equipment after use, especially the insides or gloves. Wash hands and exposed skin before meals and after work.

Occupational exposure limits – none assigned

9. Physical and Chemical Properties:

Appearance:	a dark brown liquid
Odour:	characteristic, phenolic
Boiling point/range:	>100°C
Flash-point:	>100°C
Ignition temperature:	>400°C
Solubility:	Completely soluble in water
Specific Gravity:	1.183
pH:	8.5

10. Stability and Reactivity:

Stability: Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Avoid extremes of temperature.

Reactivity: Avoid contact with strong acids, bases and oxidising agents.

Decomposition: may generate oxides of carbon and nitrogen and hydrogen

chloride if heated to decomposition.

11. Toxicological Information:

Acute Toxicity:

Acute oral LD50: >667 mg/kg.bw (rat)
Acute dermal LD50: >2000 mg/kg.bw (rat)
Acute inhalation LC50: >5.75 mg/l
Irritancy: Not a skin irritant but risk of serious damage to eyes.. May cause sensitisation by skin contact.

12. Environmental Protection:

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

LC50 (96 hour): Rainbow trout 17.8 mg/litre
EC50 (48 hour): Daphnia 21.2 mg/litre
EbC50 (72 hour): Algae 54.6 mg/l (*Selanastrum*), 29 mg/l (*Lemna*)
Mobility in soil: Fairly mobile but rapidly degraded
Persistence in soil: Quickly degraded in aerobic conditions (t/2=24 days)
Bio-accumulation: Low 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. 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 substance
UN Number: 3082
Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (contains 2,4-DB).
UN Class: 9
CPL Packing Group: III
ADR/RID Description: Marine pollutant
IMDG Class: Marine pollutant

15. Regulatory Information:

Hazard Symbols: Harmful Xn, Dangerous for the Environment N
Risk Phrases:
R22 Harmful if swallowed
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R51 Toxic to aquatic organisms
R53 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.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S46	If swallowed, seek medical advice immediately and show the container 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.

Headland Spruce is approved by the Chemicals Regulation Directorate for use as a herbicide, Registration No. MAPP 15089

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