

## **PRODUCT SAFETY DATA SHEET**

### **1. Product Name:**

HEADLAND FORTUNE

An adjuvant for use in agriculture and horticulture

### **Marketed by:**

United Kingdom:	Headland Agrochemicals Ltd.
Republic of Ireland:	Headland Agrochemicals Ltd/Interchem Ltd.
New Zealand and Australia:	Headland Soluble Solutions Ltd.
Other overseas territories:	Headland Agrochemicals Ltd

### **Contact Points:**

Headland Agrochemicals Ltd	Interchem Ltd.
Norfolk House	Cherry Orchard Industrial Estate
Great Chesterford Court	Dublin 10
Great Chesterford	Republic of Ireland
Essex CB10 1PF	
England	

Tel: +44(0)1799 530146                      Tel. 01 626 7211

Fax: +44(0)1799 530229

E-Mail: [enquiry@headlandgroup.com](mailto:enquiry@headlandgroup.com)

Headland Soluble Solutions Ltd  
P.O.Box 746  
Cambridge  
New Zealand

Tel: 07 827 4856

Fax: 07 827 4806

E-Mail:

[headland@headland-ag.co.nz](mailto:headland@headland-ag.co.nz)

### **2. Composition:**

A proprietary blend of methylated seed oil, surfactants and co-solvents

Hazardous components

N-butanol (CAS No. 71-36-3)

R10; Xn (R22), Xi (R37/38, R41), R67

### **3. Hazards:**

May cause sensitisation by skin contact

Hazard Symbol Xn (Irritant). Risk phrase R43

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

Risk phrases R52/53

**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. Seek medical attention if any irritation or redness persists.
- Ingestion: If swallowed wash out mouth with water. Do NOT induce vomiting. Keep patient at rest and obtain medical advice.
- Inhalation: Remove from exposure and provide maximum ventilation

**5. Fire Fighting Measures**

Headland Fortune will burn.

Flashpoint 72°C (closed cup D-56)

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 by bunding the area with sand or earth.

**6. Accidental Release (Spillage)**

Wear suitable protective clothing (see Section 8). Remove contaminated clothing immediately. Do not eat drink or smoke. Keep bystanders away. Absorb spillage with inert material (e.g. sand or earth), shovel or sweep up and transfer to a 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**

Wear suitable protective gloves and face protection when handling the concentrated product.

Wash protective clothing thoroughly after use especially the insides of gloves. Wash hands and exposed skin before meals and after work.

Keep in original container, tightly closed. Prevent ingress of moisture into the concentrated product.

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.

**8. Personal Protection**

Wear suitable protective gloves (neoprene or nitrile rubber at least 0.5mm thick) and face-shield to BS2092 when handling the concentrated product or contaminated surfaces. Avoid breathing the spray mist when using. Decontaminate all personal protective equipment after use.

Occupational Exposure Limits: None applicable

**9. Physical and Chemical Properties**

Appearance:	A clear yellow oily liquid
Odour:	Faint, chemical
Solubility:	Completely miscible in water
Specific Gravity:	0.901
Ph:	Typically 5.5 – 6.5
Freezing point:	4.5°C
Boiling Point:	96.5°C
Flashpoint:	72.0°C (closed cup D-56)

**10. Stability and Reactivity**

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

Reactivity: Corrosive to aluminium. Incomplete combustion may yield carbon monoxide, carbon dioxide and other hazardous gases – keep away from heat and open flames. Do not bring into contact with strong oxidising agents.

**11. Toxicological Information**

**Acute Toxicity:**

This product is of low acute toxicity:

Acute oral LD50: >5,000 mg/kg.bw

Acute dermal LD50: >2,000 mg/kg.bw

Inhalation: No data

Irritancy: A potential skin sensitiser. Ingestion may cause irritation of the mouth, throat and digestive tract.

**12. Environmental Protection**

Harmful to fish.

Toxicity to:

Fish: 96 hour LC 50 to Rainbow trout = 48 mg/litre

Aquatic Invertebrates: 48 hour EC50 to *Daphnia spp* = > 100 mg/litre

Do not contaminate ponds, waterways or ditches with chemical or used containers.

Persistence in the Environment: Fully bio-degradable

**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: None

Proper Shipping Name: Does not apply

CPL Packing Group: Does not apply

ADR/RID Description: Does not apply

IMDG Class: Not classified

**15. Regulatory Information**

Risk Symbols:

Irritant Xi

Risk Phrases:

R43 May cause sensitisation by skin contact

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

Safety Phrases:

S2 Keep out of reach of children

S24 Avoid contact with skin

S37/39 Wear suitable protective gloves and 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.

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