



## **PRODUCT SAFETY DATA SHEET**

### **HEADLAND LIQUID TURF HARDENER**

A liquid nitrogen fertiliser containing calcium and magnesium for amenity turf

**1. Marketed by:**

Headland Amenity Ltd

Contact Points:

Headland Amenity Ltd,  
1010 Cambourne Business Park,  
Cambourne  
Cambridgeshire, CB3 6DP

Tel : 01223 597834

Fax : 01223 598052

e-mail [info@headlandamenity.com](mailto:info@headlandamenity.com)

**2. Composition:**

A buffered solution of inorganic salts of calcium and magnesium

Component	CAS No.
Magnesium nitrate	10377-60-3
Calcium Nitrate	10124-37-5
Propionic Acid	79-09-4
Water	7732-18-5

**3. Hazards:**

Not classified as hazardous

**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 persists.

Ingestion: If swallowed drink plenty of water and seek medical advice

Inhalation: Remove from exposure and provide maximum ventilation

**5. Fire Fighting Measures**

The product 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.

## 6. **Accidental Release (Spillage)**

Wear suitable protective clothing (Refer to Section 8 below).

Cover the spillage with inert absorbent material (sand, earth etc), shovel 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 proper authorities if gross contamination of water 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 feeding stuffs and out of reach of children

Do not allow to freeze. Store above 5°C. Do not store in direct sunlight.

## 8. **Personal Protection**

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

## 9. **Physical and Chemical Properties**

Appearance: a clear liquid

Odour: sharp acidic odour

Specific Gravity: Approx. 1.4

pH: 4.0

## 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.

Unstable when tank-mixed with liquid seaweed formulations.

## 11. **Toxicological Information**

This product is of low toxicity:

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

Acute dermal LD50: >5,000 mg/kg.bw (calculated)

Irritancy: May be mildly irritating to skin and eyes

## 12. **Environmental Protection**

This product expected to be of low toxicity to fish and other aquatic life. Its components are readily bio-degradable and bio-accumulation is unlikely.

Do not contaminate surface waters or ditches with any 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 apply. The Chemicals (Hazard Information and Packaging for Supply) Regulations do not apply to this product.

## **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.

Liquid Turf Hardener is a trademark of Headland Amenity.