



PRODUCT SAFETY DATA SHEET

HEADLAND XTEND LIQUID 21+0+0

A slow-release liquid nitrogen fertiliser containing dicyandiamide and N(n-butyl) thiophosphoric triamide

- 1. Marketed by:**
Headland Amenity Ltd

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- 2. Composition:**
An aqueous slow-release nitrogen fertiliser

<u>Component</u>	<u>Cas No.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
N-(n-Butyl)-thiophosphoric triamide	94317-64-3	Proprietary	None	None
Urea	57-13-6	>95	None	None
Organic nitrogen (dicyandiamide)	461-58-5	Proprietary	None	None
Other trace elements and solvents	Mixture	>1	None	None

- 3. Hazards Identification:**
Contact with solution or mist may cause eye irritation.
Repeated/prolonged skin contact with solution or mist may cause irritation.
Ingestion may irritate gastrointestinal tract.
Excessive heating may cause ammonia gas to evolve.

- 4. First Aid Measures:**
First aiders should prevent themselves becoming contaminated.
Seek medical attention if anyone has symptoms apparently due to inhalation, ingestion or contact.
- Eyes: Irrigate contaminated eyes immediately with clean water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eyes and lids. Obtain medical attention
- Skin: Remove contaminated clothing and wash affected area with water. Seek medical advice if any redness or irritation persists
- Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.
- Inhalation: Remove victim from contaminated atmosphere. If breathing is laboured, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain medical attention.

5. Fire Fighting Measures:

Flash Point: Not flammable

Extinguishing media: As appropriate for combustibles involved in fire.

Fire and Explosive hazards: Heating to dryness may cause the release of ammonia and carbon dioxide. Ammonia (16-25%) may form flammable mixtures with air. Keep containers/storage vessels in fire area cooled with water spray. Heating may cause the release of ammonia vapours. Fire-fighters should wear self-contained breathing apparatus.

6. Accidental Release Measures:

Small releases: Confine and absorb small releases on sand, earth or other inert absorbent.

Use water spray to dilute to weak fertiliser solution.

Large releases: Confine area to qualified personnel. Shut off release if safe to do so.

Prevent runoff into sewers, drains or waterways. Recover as much of the solution as possible, treat remaining material as a small release.

Advise the authorities if gross contamination of waterways is threatened or occurs.

7. Handling & Storage:

Handling: Avoid contact with eyes. Use only in a well ventilated area.

Wash thoroughly after handling.

Avoid prolonged or repeated breathing of vapours.

Avoid prolonged or repeated contact with the skin.

Storage: Store in well ventilated areas.

Keep away from any sources of heat or flame.

Store out of direct sunlight at moderate temperatures (less than 41°C).

Keep away from food, drink and animal feedingstuffs and out of reach of children.

8. Exposure controls/Personal Protection:

Wear suitable protective gloves and face protection (faceshield) when handling the concentrated product. Avoid breathing spray mist.

9. Physical & Chemical Properties:

Appearance: Clear liquid

Odour: May have a slight ammoniacal / sulphurous odour

Boiling Point: 104°C

Melting Point: 0°C

Specific Gravity: 1.19 at 20°C

Viscosity: Mobile, free-flowing

pH: 6.7

10. Stability & Reactivity:

Very stable.

Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Keep containers dry and free from frost.

11. Toxicological information:

This product is of low toxicity. Ingestion of large quantities may cause gastro-enteritis and electrolyte depletion. Prolonged exposure may produce anaemia.

12. Ecological Information:

This product is of low toxicity to fish. It is unlikely to accumulate in the environment. Do not contaminate surface waters or ditches with chemical or used containers.

13. Disposal Considerations:

Surplus product should be disposed of as chemical waste if it is not possible to use it for its proper purpose. Triple-rinse and puncture empty containers and dispose of according to local permissions. Do not re-use empty containers for any purpose.

14. Transport Information:

Road Transport Class:	Not classified
UN Number:	none
Proper Shipping Name:	none
Hazard Identification No.	N/A
CPL Packing Group:	N/A

15. Regulatory Information:

S2	Keep out of reach of children
S13	Keep away from food, drink and animal feeding stuffs
S37/39	Wear suitable protective 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 purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, 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 at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.