SAFETY DATA SHEET
XTEND LIQUID HIGH-N 34-0-0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product name XTEND LIQUID HIGH-N 34-0-0
Product number LQF09/200, LQF09/1000

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Fertiliser for use on managed amenity turf

1.3. Details of the supplier of the safety data sheet
Supplier Headland Amenity Ltd
1 Burr Elm Court
Main Street
Caldecote
Cambridge
Cambridgeshire
CB23 7NU
Tel. +44 (0)1223 491090
sds.enquiries@headlandamenity.com

Contact person Wendy Johnson

1.4. Emergency telephone number
Emergency telephone +44 (0)1223 491090 (9.00 - 5.00 GMT Mon-Fri)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Eye Irrit. 2 - H319
Environmental hazards Not Classified

2.2. Label elements
Pictogram

Signal word Warning
Hazard statements H319 Causes serious eye irritation.
Precautionary statements P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.
XTEND LIQUID HIGH-N 34-0-0

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>AMMONIUM NITRATE (SOLUFEED)</th>
<th>50-70%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 6484-52-2</td>
<td></td>
</tr>
<tr>
<td>EC number: 229-347-8</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119490981-27-XXXX</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Ox. Sol. 3 - H272</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td>Classification (67/548/EEC or 1999/45/EC)</td>
<td>O; R8. Xi; R36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N-METHYL-2-PYRROLIDONE</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 872-50-4</td>
<td></td>
</tr>
<tr>
<td>EC number: 212-828-1</td>
<td></td>
</tr>
<tr>
<td>REACH registration number: 01-2119472430-46-XXXX</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>Skin Irrit. 2 - H315</td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2 - H319</td>
</tr>
<tr>
<td></td>
<td>Repr. 1B - H360D</td>
</tr>
<tr>
<td></td>
<td>STOT SE 3 - H335</td>
</tr>
<tr>
<td>Classification (67/548/EEC or 1999/45/EC)</td>
<td>Xi; R36/37/38. Repr. Cat. 1 R61</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments: The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move affected person to fresh air at once. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.

Skin contact: Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Skin contact: Skin contact may cause redness and irritation.

Eye contact: Irritation and redness, followed by blurred vision. Pain. Profuse watering of the eyes. May cause permanent damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: No specific recommendations. If in doubt, get medical attention promptly.
XTEND LIQUID HIGH-N 34-0-0

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media: No unsuitable extinguishing media known. None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting: No specific firefighting precautions known. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections: Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions: Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Advice on general occupational hygiene: Do not eat, drink or smoke when using this product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits:

N-METHYL-2-PYRROLIDONE
XTEND LIQUID HIGH-N 34-0-0

Long-term exposure limit (8-hour TWA): WEL 10 ppm  40 mg/m³
Short-term exposure limit (15-minute): WEL 20 ppm  80 mg/m³
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

N-METHYL-2-PYRROLIDONE (CAS: 872-50-4)

- Fresh water;  0.25 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation.

Eye/face protection
The following protection should be worn: Chemical splash goggles or face shield. Provide eyewash station.

Hand protection
Wear protective gloves.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. Do not eat, drink or smoke when using this product.

Respiratory protection
No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Blue.

Odour
No characteristic odour.

Odour threshold
No information available.

pH
pH (concentrated solution): ~ 6.2

Melting point
No information available.

Initial boiling point and range
No information available.

Flash point
Mixture not classed as flammable

Evaporation rate
No information available.

Evaporation factor
No information available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits
Not applicable.
XTEND LIQUID HIGH-N 34-0-0

Vapour pressure
No information available.

Vapour density
No information available.

Relative density
No information available.

Bulk density
No information available.

Solubility(ies)
Soluble in water.

Partition coefficient
No information available.

Auto-ignition temperature
No information available.

Decomposition Temperature
No information available.

Viscosity
No information available.

Explosive properties
Not considered to be explosive.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information
No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
There are no known reactivity hazards associated with this product. Stable under normal conditions.

10.2. Chemical stability
Stability
Stable at normal ambient temperatures. Stable under normal conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
No potentially hazardous reactions known.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat.

10.5. Incompatible materials
Materials to avoid
Strong acids. Oxidising agents.

10.6. Hazardous decomposition products
Hazardous decomposition products
In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological effects
No information available.

Inhalation
There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion
There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Skin contact
There may be irritation and redness at the site of contact.
XTEND LIQUID HIGH-N 34-0-0

Eye contact
Irritation and redness, followed by blurred vision. Profuse watering of the eyes. Pain. May cause permanent damage.

SECTION 12: Ecological information

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability
Persistence and degradability
The product is biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential
Bioaccumulation is unlikely.
Partition coefficient
No information available.

12.4. Mobility in soil
Mobility
No information available.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects
Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
No transport warning sign required.

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.
XTEND LIQUID HIGH-N 34-0-0

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 19/05/2016
Revision 3
Supersedes date 07/09/2015

Risk phrases in full
R8 Contact with combustible material may cause fire.
R36 Irritating to eyes.
R36/37/38 Irritating to eyes, respiratory system and skin.
R61 May cause harm to the unborn child.

Hazard statements in full
H272 May intensify fire; oxidiser.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360D May damage the unborn child.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.