



SAFETY DATA SHEET XTEND 46-0-0 GRANULAR

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

1.1. Product identifier

Product name XTEND 46-0-0 GRANULAR

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.
1-3 Freeman Court
Jarman Way
Royston
Hertfordshire
SG8 5HW
+44 (0)1763 255550
sds@headlandamenity.com

Contact person Wendy Johnson

1.4. Emergency telephone number

Emergency telephone +44 (0)1763 255550 (09.00 - 17.00 GMT Monday - Friday)

National emergency telephone number 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

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

PROPYLENE GLYCOL	<1%
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CAS number: 57-55-6

EC number: 200-338-0

Classification
Not Classified

Classification (67/548/EEC or 1999/45/EC)

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N-METHYL-2-PYRROLIDONE		<1%
CAS number: 872-50-4	EC number: 212-828-1	
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Repr. 1B - H360D		
STOT SE 3 - H335		
GLUTARAL		<1%
CAS number: 111-30-8	EC number: 203-856-5	
M factor (Acute) = 1		
Classification		
Acute Tox. 3 - H301		
Acute Tox. 2 - H330		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		
STOT SE 2 - H371		
STOT SE 3 - H335		
STOT SE 3 - H335		
STOT SE 1 - H370		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
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	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	May cause respiratory system irritation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

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

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Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

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 None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other 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. 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. Scoop/sweep/shovel spill into closing containers. 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 Open container with care to avoid generating dust. 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.

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. Long-term storage at temperatures above 36°C can adversely affect the efficacy of this product.

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

PROPYLENE GLYCOL

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Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulates

N-METHYL-2-PYRROLIDONE

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

GLUTARAL

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm Sen 0.2 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.05 ppm Sen 0.2 mg/m³(Sen)

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

UREA (CAS: 57-13-6)

DNEL	<p>Workers - Dermal; Short term systemic effects: 580 mg/kg/day</p> <p>Workers - Dermal; Long term systemic effects: 580 mg/kg/day</p> <p>Workers - Inhalation; Short term systemic effects: 292 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 292 mg/m³</p> <p>General population - Oral; Short term systemic effects: 42 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 42 mg/kg/day</p> <p>General population - Dermal; Short term systemic effects: 580 mg/kg/day</p> <p>General population - Dermal; Long term systemic effects: 580 mg/kg/day</p> <p>General population - Inhalation; Short term systemic effects: 125 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 125 mg/m³</p>
PNEC	<p>- Fresh water; 0.047 mg/l</p> <p>- marine water; 0.047 mg/l</p>

PROPYLENE GLYCOL (CAS: 57-55-6)

DNEL	<p>General population - Inhalation; Long term local effects: 10 mg/m³</p> <p>General population - Inhalation; Long term systemic effects: 50 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 10 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 168 mg/m³</p>
PNEC	<p>Fresh water; 260 mg/l</p> <p>Intermittent release; 183 mg/l</p> <p>marine water; 26 mg/l</p> <p>Sediment (Freshwater); 572 mg/kg</p> <p>Sediment (Marinewater); 57.2 mg/kg</p> <p>Soil; 50 mg/kg</p> <p>STP; 20000 mg/l</p>

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

DNEL	<p>General population - Inhalation; Long term local effects: 4.5 mg/m³</p> <p>General population - Oral; Long term local effects: 0.85 mg/kg/day</p> <p>General population - Dermal; Long term systemic effects: 2.4 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 3.6 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 40 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 4.8 mg/kg/day</p> <p>Workers - Inhalation; Long term systemic effects: 14.4 mg/m³</p>
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PNEC	<p>Fresh water; 0.25 mg/l marine water; 0.025 mg/l Sediment (Freshwater); 1.09 mg/kg Sediment (Marinewater); 0.109 mg/kg Soil; 0.07 mg/kg STP; 10 mg/l</p>
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N-(N-BUTYL)-THIOPHOSPHORIC TRIAMIDE (CAS: 94317-64-3)

DNEL	<p>General population - Dermal; Long term systemic effects: 0.14 mg/kg General population - Inhalation; Long term systemic effects: 1.9 mg/m³ General population - Oral; Long term systemic effects: 0.14 mg/kg Workers - Dermal; Long term systemic effects: 0.28 mg/kg Workers - Inhalation; Long term systemic effects: 7.8 mg/m³</p>
PNEC	<p>Fresh water; 0.28 mg/l marine water; 0.028 mg/l Sediment (Marinewater); 0.1096 mg/kg Soil; 0.055 mg/kg STP; 1 mg/l</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Provide eyewash station.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Neoprene.

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

Wear air-supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. Wear respiratory protection during operations where spraying or misting occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	Brown.
Odour	Odourless.
Odour threshold	No information available.

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pH	pH (concentrated solution): 6.5 100g/l (20oC)
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.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.76g/ml @ °C
Bulk density	900-1100 kg/m ³
Solubility(ies)	Soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	130°C
Viscosity	No information available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
<u>9.2. Other information</u>	
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 Extreme temperatures.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Oxidising agents.

10.6. Hazardous decomposition products

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Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Ammonia. Hydrogen sulphide (H₂S). Oxides of carbon. Nitrous gases (NO_x). Sulphurous gases (SO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Inhalation May cause irritation.

Ingestion May cause irritation and malaise.

Skin contact May cause skin irritation.

Eye contact May cause eye irritation.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No information available.

Partition coefficient No information available.

12.4. Mobility in soil

Mobility The product is soluble in water.

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.

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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.

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Revised formulation. NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	13/05/2022
Revision	7
Supersedes date	19/07/2021
SDS number	20707
Hazard statements in full	H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H360D May damage the unborn child. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

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.