



## SAFETY DATA SHEET PROTEC NK 10-0-10

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

#### 1.1. Product identifier

**Product name** PROTEC NK 10-0-10  
**Product number** LQF009,LQF010,LQF011

#### 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 Windscheffel

#### 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

**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

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<b>POTASSIUM NITRATE</b>		<b>5-10%</b>
CAS number: 7757-79-1	EC number: 231-818-8	REACH registration number: 01-2119488224-35-XXXX
<b>Classification</b> Ox. Sol. 3 - H272	<b>Classification (67/548/EEC or 1999/45/EC)</b> O; R8	

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

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Remove affected person from source of contamination. Take off contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. 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

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

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

<b>Notes for the doctor</b>	No specific recommendations.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding environment.
<b>Unsuitable extinguishing media</b>	No unsuitable extinguishing media known.

#### 5.2. Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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### 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 possible without risk. Absorb in vermiculite, dry sand or earth and place into 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**                Avoid spilling. Avoid contact with skin and eyes. Ensure there is sufficient ventilation of the area. 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. Protect from frost. Keep away from heat sources, combustible materials. Keep away from acids, oxidising agents.

#### 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

##### **POTASSIUM NITRATE**

Long-term exposure limit (8-hour TWA): 10

Short-term exposure limit (15-minute): 3

##### **NITRIC ACID ...%**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 5.2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 4 ppm 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### POTASSIUM NITRATE (CAS: 7757-79-1)

##### **DNEL**

Workers - Dermal; Long term systemic effects: 20.8 mg/kg/day

Workers - Inhalation; Long term systemic effects: 36.7 mg/m<sup>3</sup>

General population - Oral; Long term systemic effects: 12.5 mg/kg/day

General population - Inhalation; Long term systemic effects: 10.9 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 12.5 mg/kg/day

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### PNEC

- Fresh water; 0.45 mg/l
- Marine water; 0.045 mg/l
- Intermittent release; 4.5 mg/l
- STP; 18 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Ensure there is sufficient ventilation of the area.

#### 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.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands 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. When using do not eat, drink or smoke. Use appropriate skin cream to prevent drying of skin.

#### 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	Colourless.
Odour	No characteristic odour.
Odour threshold	No information available.
pH	pH (concentrated solution): 5.0 to 8.0
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
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	Negligible
Vapour density	No information available.

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<b>Relative density</b>	1.16-1.22 @ °C
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	No information required.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product. Stable under normal conditions.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures. Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong alkalis. Oxidising agents.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Ammonia. Nitrous gases (NOx). Sulphurous gases (SOx). Hydrogen sulphide (H2S).
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
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#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	2,890.0
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<b>Species</b>	Rat
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<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system.
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<b>Ingestion</b>	May cause discomfort if swallowed.
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<b>Skin contact</b>	Liquid may irritate skin.
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<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
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### SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment.

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No information available.

**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.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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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** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Revision comments</b>	Supplier contact and emergency contact details updated.
<b>Revision date</b>	04/09/2015
<b>Revision</b>	2
<b>Supersedes date</b>	02/06/2015
<b>Risk phrases in full</b>	Not classified.
<b>Hazard statements in full</b>	H272 May intensify fire; oxidiser.

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.