



## SAFETY DATA SHEET MULTIVERDO 13-0-46

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

#### 1.1. Product identifier

Product name MULTIVERDO 13-0-46  
Product number CNF005/25

#### 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 Ox. Sol. 3 - H272  
Health hazards Not Classified  
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) O;R8.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

Hazard statements H272 May intensify fire; oxidiser.

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<b>Precautionary statements</b>	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220 Keep away from combustible materials.
	P221 Take any precaution to avoid mixing with combustibles.
	P280 Wear eye protection.
	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P501 Dispose of contents/ container in accordance with national regulations.	

### 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

<b>POTASSIUM NITRATE</b>		<b>0-100%</b>
CAS number: 7757-79-1	EC number: 231-818-8	REACH registration number: 01-2119488224-35-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Ox. Sol. 3 - H272	O; R8. E; R9	

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

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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

<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest. Gastrointestinal discomfort. Nausea, vomiting. Diarrhoea.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat. Bloody bowel movement.
<b>Skin contact</b>	There may be mild irritation at the site of contact.
<b>Eye contact</b>	There may be irritation and redness.

### 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.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Water spray, foam, dry powder or carbon dioxide.

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

<b>Specific hazards</b>	Oxidising.
<b>Hazardous combustion products</b>	Toxic gases or vapours. Nitrous gases (NOx). Oxides of potassium.

### 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Stop leak if safe to do so. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	Collect and dispose of spillage as indicated in Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Usage precautions</b>	Open container with care to avoid generating dust. Provide adequate ventilation. Avoid spilling. Avoid contact with skin and eyes. Wash hands thoroughly after handling.
<b>Advice on general occupational hygiene</b>	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

<b>Storage precautions</b>	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat. Store away from incompatible materials (see Section 10).
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### 7.3. Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

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

<b>DNEL</b>	General population - Oral; : 12.5 mg/kg/day
	Workers - Dermal; : 20.8 mg/kg/day
	General population - Dermal; : 12.5 mg/kg/day
	Workers - Inhalation; : 36.7 mg/m <sup>3</sup>
	General population - Inhalation; : 10.9 mg/m <sup>3</sup>

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### PNEC

- Fresh water; Long term 0.45 mg/l
- Marine water; Long term 0.045 mg/l
- Water; Short term 4.5 mg/l
- STP; Long term 18 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

Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	White.
Odour	No characteristic odour.
Odour threshold	No information available.
pH	No information available.
Melting point	>210°C
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	No information available.
Vapour density	No information available.
Relative density	900-1200 kg/m <sup>3</sup>

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<b>Bulk density</b>	No information available.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<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>	Ox. Sol. 3 (mean burning time $\leq$ that of a 3:7 mixture, by mass of potassium bromate and cellulose).

### 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>	Stable under recommended transport or storage 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>	Under normal conditions of storage and use, no hazardous reactions will occur. Decomposition may occur on exposure to conditions or materials listed below.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat. Unstable when exposed to moisture.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Flammable/combustible materials. Reducing agents. Powdered metal. Strong acids. Organic material.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	In combustion emits toxic fumes. Nitrous gases (NO <sub>x</sub> ). Oxides of potassium.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Inhalation</b>	There may be irritation of the throat with a feeling of tightness in the chest. Gastrointestinal discomfort. Nausea, vomiting. Diarrhoea.
<b>Ingestion</b>	There may be soreness and redness of the mouth and throat. Bloody bowel movement.
<b>Skin contact</b>	There may be mild irritation at the site of contact.
<b>Eye contact</b>	There may be irritation and redness.

## SECTION 12: Ecological Information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment.
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### 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** 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** May cause eutrophication.

## 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

### 14.1. UN number

**UN No. (ADR/RID)** 1486

**UN No. (IMDG)** 1486

**UN No. (ICAO)** 1486

**UN No. (ADN)** 1486

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** POTASSIUM NITRATE

**Proper shipping name (IMDG)** POTASSIUM NITRATE

**Proper shipping name (ICAO)** POTASSIUM NITRATE

**Proper shipping name (ADN)** POTASSIUM NITRATE

### 14.3. Transport hazard class(es)

**ADR/RID class** 5.1

**ADR/RID classification code** O2

**ADR/RID label** 5.1

**IMDG class** 5.1

**ICAO class/division** 5.1

**ADN class** 5.1

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### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

##### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

EmS	F-A, S-Q
ADR transport category	3
Emergency Action Code	1Z
Hazard Identification Number (ADR/RID)	50
Tunnel restriction code	(E)

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

### 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).
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#### 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	5
Supersedes date	04/09/2015
Risk phrases in full	R8 Contact with combustible material may cause fire.
Hazard statements in full	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.