



headland
AMENITY PRODUCTS

PRODUCT SAFETY DATA SHEET

MULTIVERDO 13+0+46

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

1.1 Product identifier:

Multiverdo 13+0+46

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Horticulture / Amenity fertiliser

1.3 Details of the supplier of the safety data sheet:

Headland Amenity Ltd,
1010 Cambourne Business Park,
Cambourne
Cambridgeshire
CB23 6DP
Tel : +44 (0) 1223 597834
Fax - +44 (0) 1223 598052
e-mail info@headlandamenity.com

1.4 Emergency telephone number:

Tel : +44 (0) 1223 597834

2. Hazards Identification:

2.1 Classification of the substance or mixture;

Classification according to Directive 1999/45/EC and statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulation)

O, R8

2.2 Label elements:

MULTIVERDO 13+0+46
Contains Potassium Nitrate EC:231-818-8



OXIDISING

Risk Phrases:

R8: Contact with combustible material may cause fire.

Safety Phrases:

S3/7: Keep container tightly closed in a cool place

S8: Keep container dry

2.3 Other hazards:

None Known

3: Composition/information on ingredients:

3.2 Mixtures

Hazardous Components	CAS-No./	EC No.	Concentration	Classification
Potassium Nitrate	7757-79-1	231-818-8	100%	O; R8

The full text for all R-Phrases if not displayed in section 2 or 3 are displayed in Section 16.

4. First Aid Measures:

4.1 Description of first aid measures:

Eyes:	Rinse eyes slowly and gently with water. If irritation persists seek medical attention.
Skin:	Wash thoroughly with soap and water. Seek medical advice if any irritation persists or develops later.
Ingestion:	May cause irritation to the gastro-intestinal tract. Do not induce vomiting. Give water or milk. If patient feels unwell seek medical attention.
Inhalation:	Remove from source of exposure into fresh air. May cause irritation. Seek medical attention if any effects are observed.

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

No further information available

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

No specific antidote. Medical staff should contact Poisons Information Centre.

5. Fire Fighting Measures:

5.1 Extinguishing Media

Mixture is not classified as flammable. Use suitable extinguishing media as appropriate for surrounding materials. Do not release runoff from fire or fire fighting media to sewers or waterways.

5.2 Special hazards arising from the substance or mixture

Products of combustion are nitrogen oxides (NO, NO₂). The product itself is not combustible but it can support combustion even in the absence of air. On heating it melts and further heating can cause decomposition releasing toxic fumes containing nitrogen oxides. It has high resistance to detonation. Heating under strong confinement can lead to explosive behaviour.

5.3 Advice for fire-fighters:

Suitable protective clothing and breathing apparatus.

6. Accidental Release Measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Prevent contact with skin or eyes. Use coveralls and chemical resistant gloves with eye protection as necessary. Eliminate all ignition sources.

6.2 Environmental precautions:

DO NOT wash excessive spillages into water courses. If this product enters water course or sewer (including via contaminated soil and vegetation) in large quantities, contact local agency and/or police immediately. DO NOT burn

6.3 Methods and material for containment and cleaning up:

Sweep carefully into suitable labelled container for re-use or disposal at an approved site.

6.4 Reference to other sections:

No reference

7. Handling and storage:

7.1 Precautions for safe handling:

When using, DO NOT eat, drink or smoke. Open container with care to avoid generating dust. Keep away from heat and sources of ignition. Keep away from combustible material.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, dry atmosphere in original, labelled containers.
DO NOT store in metal or alloy packaging
Separate from acids, alkalis, reducing agents and combustibles
Keep away from food, drink and animal feeding stuffs.
Refer to manufacturer for maximum safe stacking height.

7.3 Specific end use(s):

No further information available

8. Exposure controls/personal protection:

8.1 Control Parameters

Occupational Exposure limits

EU OEL (Europe)

TWA 5mg/m³ 8hour(s) Form: Dust

8.2 Exposure Controls

Good general ventilation should be used. Ensure adequate engineering controls for measuring and handling of product. Prevent product from entering drains

Primary Hazard considered handling as concentrate.

Gloves: BS EN374 – chemical protection : physical barrier protection only.

Eye protection: goggles/face shield to BS EN166

9. Physical and Chemical Properties:

9.01 Appearance:	White prills
9.02 Odour:	Odourless
9.03 pH:	6 to 10.5 in solution
9.04 Boiling Point / Range	Decomposition temperature 333.85°C (632.9°F)
9.05 Flash Point / Flammability:	Not classed as flammable
9.06 Explosive Properties:	Not classified as explosive
9.07 Oxidising Properties:	5.1 Oxidiser
9.08 Vapour Pressure:	Information not available
9.09 Relative Density:	Bulk density approx 1.12g/ml
9.10 Solubility:	Slowly soluble in water -31.6g/100ml of water at 20°C (68°F)
9.11 Partition Coefficient:	Information not available
9.12 Viscosity:	Information not available
9.13 Vapour Density:	Information not available
9.14 Evaporation Rate:	Non volatile

9.2 Other Information

No other relevant information available

10. Stability and Reactivity:

10.1 Reactivity:

Acids, alkalis, reducing agents and combustibles

10.2 Chemical Stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Not known.

10.4 Conditions to avoid

Extremes of temperature

10.5 Incompatible materials

Acids, alkalis, reducing agents and combustibles

10.6 Hazardous decomposition products

Irritant fumes

11. Toxicological Information:

11.1 Information on toxicological effects:

Ingredient Name	Test	Result	Route	Species
Potassium nitrate	LD50	3750mg/kg	Oral	Rat
	LD50	1901mg/kg	Oral	Rabbit

Not considered to be toxic to humans

12. Ecological Information

12.1 Toxicity:

Not classified as harmful to the environment in accordance with the CHIP regulations 2009 and 1999/45/EC.

Product / Ingredient Name	Species	Period	Results
Potassium nitrate	Poecillia reticulata (LC50)	96 hours	180mg/l
	Poecillia reticulata (LC50)	96 hours	200mg/l

12.2 Persistence and Degradability:

The product itself and its products of degradation are not toxic

12.3 Bioaccumulative potential:

This product is not considered to bio-accumulate

12.4 Mobility in soil:

Information not available

12.5 Results of PBT and vPvB assessment:

Mixture not assessed

12.6 Other adverse effects:

No other adverse effects known

13. Disposal Considerations:

13.1 Waste treatment methods:

Disposal of Used Preparation:

Apply as fertiliser to field. If product is contaminated, dispose of in an appropriate disposal facility.

Disposal of Packaging:

An empty container can contain product residue and should not be re-used. Use specialist waste contractor in accordance with local regulations. DO NOT remove labels from containers.

14. Transport Information:

Road and Rail: ADR/RID

UN number:

UN1486

UN proper shipping name:

Oxidising Solid, n.o.s (contains Potassium nitrate

Transport hazard class(es):

5.1

Packing group:

III

Environmental hazards:

Product not classified as dangerous to the environment

Special precautions for user:

Hazard Identification num: 50
Limited Quantity: LQ12
CEFIC Tremcard: 51S1486

Sea: IMDG

UN number:

UN1486

UN proper shipping name:

Oxidising Solid, n.o.s (contains Potassium nitrate

Transport hazard class(es):

5.1

Packing group:

III

Environmental hazards:

Product not classified as dangerous to the environment

Special precautions for user:

No Information available

Air: ICAO/IATA

Quantity Limitation: Passenger & Cargo 25kg
Cargo Aircraft Only 100kg
Limited Quantities Passenger Aircraft 10kg

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:

Applicable to maritime transport only please check with carrier

15. Regulatory Information

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

This mixture is classified and labelled in accordance with Directive 1999/45/EC, Regulation 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EU fertiliser regulations 2003/GB fertiliser regulations 1991.

EU statistical classification (Tariff code) 2834 21 00

15.2 Chemical Safety Assessment:

CSA not undertaken for this mixture.

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 purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, 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 to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Reason For Update:

MSDS has been re-written to reflect the new format given in Annex I of the REACH regulation 453/2010

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End of Safety Data Sheet