



**5. FIRE FIGHTING MEASURES**

Suitable extinguishing media	: Water spray (fog), foam or dry chemicals.
Special exposure hazards	: 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 (nitrogen oxide) also see 10.
Protective Clothing	: Protective clothing and pressurised air mask (independent breathing apparatus).

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions	: Avoid eye contact. Wear PVC gloves and safety goggles.
Environmental Precautions	: Keep away from drains, surface- and groundwater.
Cleaning method	: Put spilled material into appropriately marked container and limited remainder can be removed by rinsing with lots of water.

**7. HANDLING AND STORAGE**

Handling	: Use gloves and safety goggles when handling the material for longer periods.
Storage	: Store in original close packing, in a dry place, separate from combustible materials, acids, bases and reducing agents. (The product absorbs moisture).

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Hygiene	: Do not eat, smoke or drink during work.
Respiratory Protection	: Use dust mask if dust formation might occur.
Hand Protection	: Use PVC gloves when handling the material.
Eye Protection	: Use safety goggles.
Skin Protection	: Normal work clothing.
Occupational exposure controls	: Total inhale dust 10mg/m <sup>3</sup> . Respirable dust 4mg/m <sup>3</sup> .

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State	: Crystalline fine powder.
Colour	: Pink or White to slightly greenish.
Smell	: None.
Melting Point	: Depending on composition. No information available.
pH in water	: 3-6 (10% solution in water).
Bulk density	: 1100kg/m <sup>3</sup> .
Solubility	: Soluble in water up to 150g/litre
Explosive elements	: High resistance to detonation
Other information	: Product does not decompose self-sustainingly

## 10. STABILITY AND REACTIVITY

Stability	: Stable under recommended conditions (see section 7)
Conditions to be avoided	: Unnecessary exposure to air and sources of heat. Long term storage can lead to caked product
Exposure to sources of heat:	: Before welding clean up.
Contact with other materials	: Combustible materials, reducing agents, acids and bases/alkalis and metals like copper, zinc and their alloys
Hazardous decomposition products	: Nitrogen vapours (NOx).

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity	: LD50(rat)/ oral > 4000mg/kg.
Eye contact	: Irritation.
Skin contact	: Irritation after longer exposure.
Ingestion	: Unlikely, see Section 4.
Inhalation	: Not applicable.
Chronic affected	: No adverse effects known.

## 12. ECOLOGICAL INFORMATION


Ecotoxicity	: The product is used as a fertilizer and is not harmful to the environment when used as recommended.
Persistence and degradability	: Nitrates follow the natural (de) nitrification process to nitrogen
Biodegradability	: Inherently biodegradable

## 13. DISPOSAL CONSIDERATIONS

Removal of remainder	: See Section 6. If not polluted with other materials it should be considered to re-use the remainder as a fertilizer.
Transport	: See Section 6.

## 14. TRANSPORT INFORMATION

Land Transport

UN Number Classification	: Class 5.1	
ADR/RID	: 5.1	
ADR/RID-labels	: 5.1 – Oxidizing agent	
UN number	: 1479	
Packaging group	: III	
Kemier number	: 50	
Correct technical name	: 1479 – Oxidizing solid, N.O.S. (Potassium nitrate, ammonium nitrate)	
CEFIC Tremcard	: 51GO2-I+II+III.	


Sea Transport

IMDG : Class 5.1  
 IMO-labels : 5.1 – Oxidizing agent  
 UN number : 1479  
 Packaging group : III  
 Correct technical name : 1479 – Oxidizing solid, N.O.S.  
 (Potassium nitrate, ammonium nitrate)

Air Transport

ICAO : Class 5.1  
 ICAO-labels : 5.1 – Oxidizing agent  
 UN number : 1479  
 Packaging group : III  
 Correct technical name : 1479 – Oxidizing solid, N.O.S.  
 (Potassium nitrate, ammonium nitrate)

## 15. REGULATORY INFORMATION

Information on the label : 

O  
 Classification : Oxidizing

Symbols  
 R-phrases : R8 Contact with combustible material may cause fire  
 S-phrases : S17 Keep away from combustible material  
 S41 In case of fire and/or explosion do not breathe fumes

Product use : Industrial applications

UK regulations : The Fertiliser Regulations 1991 (SI 2197 and amendments)  
 Carriage of Dangerous Goods Regulations (SI 2195 and amendments)

## 16. OTHER INFORMATION

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

Westland Horticulture Limited do not accept responsibility for damage caused by incorrect use of this information.

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