



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product **Tomato Concentrated Plant Food**

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PSDS GROUP 10 PRODUCT
PRODUCT SAFETY DATA SHEET GROUP 10

2. COMPOSITION/INFORMATION ON INGREDIENTS

These products may contain some or all of the following ingredients:- ammonium nitrate, urea, ammonium sulphate, ammonium phosphate, potassium chloride (muriate of potash), potassium phosphate, potassium sulphate, triple superphosphate, inert suspending agents such as bentonite or atapulgite clay, secondary nutrients, micro-nutrients and complexing agents.

3. HAZARDS IDENTIFICATION

Human Health	: Products are of a low toxicity but prolonged skin or eye contact may cause some irritation.
Ingestion	: Small quantities are unlikely to cause toxic effects.
Inhalation	: Low toxicity spray but high concentration of air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.
Molten Material	: Will cause burns and inhalation of decomposition gases (e.g. in a fire) may cause serious delayed lung effects.
Environment	: Heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters or nitrate contamination. See Section 12.

4. FIRST AID MEASURES

Product	
Inhalation	: Remove from source of exposure to spray. Keep warm and at rest. Obtain medical advice if symptoms persist.
Ingestion	: Do not induce vomiting. Give milk or water to drink. Obtain medical attention if more than small quantities have been swallowed.



Skin Contact : Wash the affected area with soap and water.
Eye Contact : Irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes. Obtain medical advice if symptoms persist.

Fire and Decomposition Products

Skin Contact : Wash areas in contact with molten material. Wash copiously with cold water. Seek medical advice.
Inhalation : Remove from source of exposure to fumes. Keep warm and at rest.

5. FIRE FIGHTING MEASURES

When the fertiliser is not directly involved in the fire use the best means available to control the fire.

When the fertiliser is involved:-

1. Avoid breathing the fumes. Wherever possible, wear an approved breathing mask when fighting a fire or when fumes are being emitted.
2. Call the fire brigade.
3. Use plenty of water.
4. Open doors and windows to give maximum ventilation.
5. Do not allow the fertiliser or water containing the fertiliser to run into drains.

Note also First Aid precautions (Section 4).

6. ACCIDENTAL RELEASE MEASURES

Wash down spillage promptly and avoid ingestion by livestock. Take care to avoid the contamination of watercourses and drains. Inform the appropriate water authority in the event of accidental watercourse contamination.

7. HANDLING AND STORAGE

Handling : Avoid excessive generation of spray during transport of product. Take special care with absorbent materials such as clothing and insulating material contaminated with the fluid which, when dry, may exhibit incendiary properties.
Storage : Store in vessels fit for the purpose. Locate away from sources of heat, fire or explosion. Keep away from combustible materials and chemical substances taking particular care on farms to ensure that it is not stored near hay, grain, diesel etc. Ensure high standard of house-keeping in the storage areas. Tank or storage areas should be appropriately sited to prevent the contamination of drains or watercourses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

No specific official limits.

Precautionary and Engineering Measures

Avoid high spray concentration and provide ventilation where necessary.

Personal Protection

Wear suitable gloves when handling the product over long periods. Avoid contamination of absorbent clothing. After handling product, wash hands and observe good hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aqueous solution (green) or suspension which will crystallize out at temperatures below zero.
Odour	: Odourless or slight ammoniacal smell.
pH	: <4.5.
Density	: Depends on concentration. Normally between 1200 and 1400kg/m ³ .

10. STABILITY AND REACTIVITY

Stable under normal storing and handling conditions. Liberates ammonia when in contact with alkalis e.g. Caustic Soda, Soda Ash.

The solution (and solids in solution) do not support combustion and may act as a fire retardant. When strongly heated, water evaporates and ammonia is given off. After complete evaporation, a solid or molten mass may form which decomposes on further heating, giving off toxic fumes containing ammonia, hydrogen chloride, ammonium chloride and chlorine and oxides of nitrogen if ammonium nitrate is present. There is no explosive risk under normal handling situations, but in pumping operations, if allowed to run dry, may possibly exhibit explosive properties.

Do not weld or apply heat to equipment or plant which may have contained the fertilizer without first washing thoroughly to remove all fertilizer.

11. TOXICOLOGICAL INFORMATION

General. : See Section 3.

Toxicity Data

Product toxicity will depend on the composition.

Ammonium Nitrate : LD50 (oral, rat) >2000mg/kg
May cause methaemoglobinaemia

Ammonium Phosphate : LD50 (oral, rat) > 2000mg/kg

Potassium Chloride or Sulphate : LD50 (oral, rat) > 2000mg/kg

**12. ECOLOGICAL INFORMATION**

Mobility	: The nitrate ion is mobile. The ammonium ion is absorbed by soil.
Persistence/Degradability	: The nitrate ion is mobile; the ammonium ion is absorbed by soil particles. Phosphates, whether water or citrate soluble, are translocated in the soil over very short distances and are then immobilized. The dissolved potassium ion in the soil solution is absorbed by clay minerals; where these are absent in light soils, part of the potassium may be leached.
Bio-accumulation	: The product does not show any bio-accumulation phenomena.
Ecotoxicity	: Low toxicity to aquatic life.

13. DISPOSAL CONSIDERATIONS

Depending on the degree of contamination, dispose of by use on farm by spraying thinly on open ground or to an authorized waste facility. Take care to avoid the contamination of watercourses and drains. Inform the appropriate water authority in the event of accidental watercourse contamination.

14. TRANSPORT INFORMATION

UN Classifications	: Not classified, i.e., considered non-hazardous material according to the UN Orange Book and international transport codes, e.g., RID (rail), ADR (road) and IMDG (sea).
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15. REGULATORY INFORMATION

EC Directives	: 76/116/EEC (Relating to fertilisers)
National Regulations	: The Fertilisers Regulations 1991 and subsequent 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 disclaims any liability for loss or damage resulting from the use of this data, information or suggestions.

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