

Westland Safety Data Sheet

1. Product: Lawn repair kit

Produced by Westland Horticulture
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2. Product composition

Solid compound fertilisers (N:P:K) with not more than 70% ammonium nitrate. They are not capable of self sustaining decomposition ("cigar burning"). These products may contain some or all of the following ingredients in addition to ammonium nitrate:

- Ammonium sulphate
- Urea
- Mono and di ammonium phosphate
- Normal (single) super phosphate
- Triple super phosphate
- Phosphate rock
- Potassium chloride (muriate of potash)
- Potassium sulphate
- Inert fillers such as sand or limestone
- Coating materials such as oil, amine, clay or talc
- Secondary nutrients and/or trace elements

UN Classification. Not in hazardous category.

Transport Classification. Not applicable.

3 Chemical & Thermal Properties

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

Not Itself combustible. Melts and decomposes when heated Strongly with molten material starting to form between 160 – 165^oc. On decomposition gives off water vapour and toxic fumes which may contain oxides of nitrogen, ammonia, hydrogen chloride, ammonium chloride, chlorine and other similar gases. Decomposition is accelerated by a number of substances such as acids;

carbonaceous materials; chromates; zinc, copper and their alloys; chlorates and reducing agents.

Heating under strong confinement (e.g. in tubes or drains) may lead to a violent reaction or explosion, especially if there is contamination by substances mentioned above.

4. Physical Properties

Solid uniform granules or blend of solid granules; white, grey or brown in colour with a bulk density between 900 and 1000 kg/m³. Soluble in water and hygroscopic.

5. Health Hazards

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.

Large quantities may give rise to gastrointestinal disorders and in extreme cases (particularly in children) formation of methaemoglobin ("blue baby" syndrome) and cyanosis (indicated by blueness around the mouth) may occur. No adverse long-term effects are known.

Molten material: Will cause burns and inhalation of decomposition gases (e.g. in a fire) may cause serious delayed lung effects.

6. First Aid

Product

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.

Ingestion: Do not induce vomiting. Give milk or water to drink. Obtain medical attention if more than small quantities have been swallowed.

Fire and Thermal 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.

7. Precautions for Storage, Handling & Use

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

Storage: The basic requirements are the avoidance of involvement in a fire and contamination. 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. Do not permit smoking or the use of naked lights in the storage area. Buildings used for storage should be dry and well ventilated; stacks therein should be at least 1 metre from walls, eaves and beams. Further storage guidance is given in HSE Guidance CS18.

Handling: Avoid contamination by materials such as diesel oil, grease and other combustible materials. Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.

Personnel Protection: Wear gloves when handling the products over a long time periods.

Use: Use in accordance with manufacturers advice. Do not exceed maximum recommended rates of application.

8. Transport

Avoid transport with other materials where there is undue risk of contamination. Ensure that the transport is clean before loading the product.

9. Spillage

Clean up spillage promptly. Sweep up and place in a clean appropriately labelled container. Depending on the degree of contamination dispose of it by using as intended or at an authorised waste facility. Take care to avoid the contamination of watercourses and drains. Inform the appropriate water authority in the event of accidental watercourse contamination.

10. Fire Fighting

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 use chemical extinguishers or foams or attempt to smother the fire with steam or sand.
6. Do not allow molten fertiliser to run into drains.

If safe to do so prevent the contamination of the fertiliser by oil and other combustible materials. If water containing the fertiliser enters any drain or water course, inform the appropriate water authorities immediately. Note also first aid precautions (6).

11. Use Responsibly

This safety data sheet provides health and safety information. The product is to be used in applications consistent with best practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of the Westland's knowledge correct as at this date of publication.