



Profert (Pty) Ltd
Material Safety Data Sheet (MSDS)

1. Product and Company identification

Identification of the substance or preparation

Product name	- LAN 28 (Limestone Ammonium Nitrate)	Serial Number : P030
Material uses	- Fertilizer	Date issued : Jan 2012
Synonyms	- KAN 28 / LAN 28	Pages : 3
Supplier address	- Profert (Pty) Ltd 43 Ross Street Potchefstroom 2531 Tel nr : +27 18 293 3530	

2. Composition / Information on ingredients

Composition	- Nitrogen 26 to 28% (74 to 80% as NH_4NO_3) and the balance as limestone usually dolomatic.
Appearance	- Hard grey granules or prills.

3. Hazards identification

Effects and symptoms	- Hazardous in case of contact with skin and eyes, inhalation and/or ingestion.
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4. First Aid measures

Specific immediate treatment

Inhalation	- If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	- Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.
Skin contact	- In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothes and shoes before re-use. Get medical attention if symptoms appear.
Eye contact	- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention if symptoms appear.
Notes to physician	- Support respiratory and cardiovascular function.

5. Fire-fighting measures

Extinguishing Media

Suitable	- Water spray, fog or foam.
Special fire-fighting procedures	- Oxidizing material. Evacuate surrounding areas. Use flooding quantities of water. Avoid contact with organic materials.
Hazardous thermal decomposition products	- These products are nitrogen oxides (NO , NO_2 ,), carbon oxides (CO , CO_2 ,), ammonia.
Protection of fire-fighters	- Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Spill and leak

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| Personal Precautions | - Use only with adequate ventilation. Wear suitable protective clothing. Avoid breathing dusts. |
| Environmental precautions and clean-up methods | - Use shovel to put the material into well labelled and convenient waste disposal container. Do not clean-up or dispose except under supervision of a specialist. |

7. Handling and Storage

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| Handling | - Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Avoid creating dust when handling and avoid all possible sources of ignition (spark or flames). |
| Storage | - Keep container tightly closed. Keep container in a cool, well-ventilated area. Store and use away from organic materials, reducing agents, moisture and powered metals. |
| Packaging materials | - Use original container. |

8. Exposure Controls / Personal Protection

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| Engineering measures | - Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Hygiene measures | - Wash hands after handling compounds and before eating, smoking, using lavatory and at the end of the day. |
| Skin and body protection | - Full length chemical resistant overalls / apron, dust mask. |
| Hand protection | - Gloves (Impervious) |
| Eye protection | - Use dust goggles / masks if high dust concentration is generated. |

Protective clothing (Pictograms)



9. Physical and chemical properties

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| Appearance / Colour | - Solid (Grey granules). |
| Melting point | - 170 °C (338 °F) |
| pH | - 6 [Conc. (% w/w) : 10] [Acidic] |
| Boiling point | - No data available |

10. Stability and Reactivity

Stability	- The product is stable. Hygroscopic; absorbs moisture from the air. Avoid contact with moisture; slow hydrolysis will produce corrosive acid.
Materials to avoid	- Reactive with combustible materials, organic materials and fuels.
Hazardous decomposition products	- These products are nitrogen oxides (NO, NO ₂ ,), carbon oxides (CO, CO ₂ ,), ammonia.
Hazardous polymerization	- Will not occur.

11. Toxicological information

Potential acute health effects	
Eye contact	- Hazardous in case of eye contact.
Skin contact	- Hazardous in case of skin contact.
Inhalation	- Hazardous in case of inhalation.
Ingestion	- Hazardous in case of ingestion.

12. Ecological information

Users should ensure that they comply with local, provincial and national environmental legislation.	
Environmental affects, behaviour and fate	- Toxic to aquatic organisms in low concentrations.

13. Disposal considerations

Method of disposal	- Waste must be disposed of in accordance with local, provincial and national environmental control regulations. Recover, reclaim or recycle if practicable.
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14. Transport information

International regulations	- Not regulated
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15. Regulatory information

Risk phrases	- Contact with combustible material may cause fire. Explosive when mixed with combustible material.
Safety phrases	- Keep away from combustible material. This material and its container must be disposed of as hazardous waste.
Users should ensure that they comply with any relevant local, provincial and national legislation.	

16. Other information

This MSDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product and in particular how to safely handle, use, store and transport the product. Since Profert (Pty) Ltd cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this MSDS in the context of how the user intends to handle, use, store or transport the product and beyond, and communicate such information to all relevant parties.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part. Profert (Pty) Ltd emphasizes safe use of all materials, promotes sustainable practices and encourages preservation of the environment.