



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

1. Product and Company identification

Identification of the substance or preparation

Product name - **Urea**
Material uses - Fertilizer
Synonyms - Urea HB, Urea LB
Supplier address - Profert (Pty) Ltd
43 Ross Street
Potchefstroom 2531
Tel nr : +27 18 293 3530

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Pages : 3

2. Composition / Information on ingredients

Composition - A stable substance containing, ca. 100% Urea.

Appearance - White or green solid prills or granules.

3. Hazards identification

Effects and symptoms - Heating under confinement may lead to violent reaction or explosion. Dust may cause irritation or coughing, inhalation and/or ingestion.

4. First Aid measures

Specific immediate treatment

Inhalation - Remove patient from exposure, keep warm and at rest. 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. Give plenty of water to drink. 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

Special fire-fighting procedures - Extinguishing media should be determined by surrounding materials. Thermal decomposition may evolve 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	
Personal Precautions	- As a minimum use rubber gloves and a dust mask.
Environmental precautions and clean-up methods	- Use shovel to put the material into well labelled and convenient waste disposal container. Thereafter wash the spillage area with water to drain. Do not clean-up or dispose except under supervision of a specialist.

7. Handling and Storage

Handling	- Do not ingest. Control dust formation. Avoid contact with eyes. Avoid prolonged contact with skin.
Storage	- Keep container tightly closed. Keep container in a cool, well-ventilated area. Store and use away from strong bases.
Packaging materials	- Use original container.

8. Exposure Controls / Personal Protection

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

Appearance / Colour	- White or green solid prills / granules
Melting point	- 133 °C
Solubility in water	- Highly soluble, hygroscopic
Bulk density	- 0.76 g/ml

10. Stability and Reactivity

Stability	- The product is stable. Hygroscopic; absorbs moisture from the air. Avoid contact with moisture.
Hazardous decomposition products	- Decomposition may evolve the oxides of nitrogen and ammonia.
Hazardous reaction	- Contact with reducing agents and some flammable substances may cause violent reaction and combustion.

11. Toxicological information

Potential acute health effects

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|--------------|--|
| Eye contact | - Hazardous in case of eye contact. |
| Skin contact | - May cause irritation from abrasion. |
| Inhalation | - Dust may irritate to nose, throat and the respiratory tract and may cause coughing. |
| Ingestion | - Swallowing large amounts may cause irritation and gastrointestinal disorders and in extreme cases. |

12. Ecological information

Users should ensure that they comply with local, provincial and national environmental legislation.

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| Environmental affects, behaviour and fate | - Toxic to aquatic organisms in low concentrations. |
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13. Disposal considerations

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|--------------------|--|
| 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

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| 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.