



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

1. Product and Company identification

Identification of the substance or preparation

Product name	- <b>Superphosphate</b>	Serial Number : P020
Material uses	- Fertilizer	Date issued : Jan 2012
Synonyms	- Superphosphate 19.6, Superphosphate 10.5, Superphosphate 8.7, Superphosphate 8.3, Double Superphosphate, Profos 20-G, Profos 10.5-G, Profos 8.7-G	Pages : 4
Supplier address	- Profert (Pty) Ltd 43 Ross Street Potchefstroom 2531 Tel nr : +27 18 293 3530	

2. Composition / Information on ingredients

Composition	- A preparation containing 8.3 to 20% P (Mainly as mono calcium phosphate, balance as gypsum)
Molecular formula	- $\text{Ca}(\text{H}_2\text{PO}_4)_2 \cdot 2\text{H}_2\text{O}$
Appearance	- White to light grey granules.

3. Hazards identification

Effects and symptoms	- Hazardous in case of contact with skin, 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. If not unconscious wash out mouth with water and give a cup of water to drink. Get medical attention if symptoms appear.
Skin contact	- In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. 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.

## 5. Fire-fighting measures

Suitable

- Special fire-fighting procedures - Requirements should be determined by surrounding materials. In the presence of steam, ammonia may be released when heated.
- Protection of fire-fighters - Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

- Personal Precautions - Avoid breathing dusts. Use only with adequate ventilation. Wear suitable protective clothing.
- Environmental precautions and clean-up methods - Shovel into well labelled containers for disposal.

## 7. Handling and Storage

- Handling - Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label.
- Storage - Keep container tightly closed. Keep container in a cool, well-ventilated area. Store and use away from organic materials, reducing agents, moisture and powdered metals.
- 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.



## 9. Physical and chemical properties

Appearance	- White to grey granules.
Molecular mass	- 1.0 to 1.1 kg / dm <sup>3</sup>
Solubility	- Soluble in water

## 10. Stability and Reactivity

Stability	- The product is stable under normal conditions.
Hazardous reaction	- Keep away from strong bases and acids.
Hazardous decomposition products	- Decomposes on heating to ammonia oxides of nitrogen.

## 11. Toxicological information

Potential acute health effects	
Eye contact	- May cause irritation from abrasion.
Skin contact	- May cause irritation from abrasion.
Inhalation	- Dust may irritate nose, throat and the respiratory tract which may cause coughing and choking.
Ingestion	- Swallowing large amounts may cause vomiting and cramps.
Long term exposure	- No known side effects have been associated with repeated or prolonged exposure.

## 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.