



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

1. Product and Company identification

Identification of the substance or preparation

Product name	- <b>Potassium Chloride (KCl)</b>	Serial Number : P032
Material uses	- Fertilizer	Date issued : Jan 2012
Synonyms	- Potassium Chloride, Potassium Chloride-G, Potassium Chloride-S	Pages : 3
Supplier address	- Profert (Pty) Ltd 43 Ross Street Potchefstroom 2531 Tel nr : +27 18 293 3530	

2. Composition / Information on ingredients

Composition	- A stable substance, ca. 97% KCl, Potassium as K > 50% also known as MOP, Muriate of Potash.
Appearance	- Reddish or off-white, crystalline or chips.

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

Special fire-fighting procedures	- Non-flammable. Appropriate to the surrounding materials. Subjecting it to high temperature, may evolve small amounts of chlorine.
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                           | - As a minimum uses rubber gloves and eye protection.   |
| 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            | - Control dust information. Avoid contact with eyes and skin.    |
| Storage             | - Keep in a cool, dry area to avoid loss by solution and caking. |
| 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 | - Reddish or of-white, crystalline material. |
| Melting point       | - 772 °C                                     |
| Solubility in water | - Appreciable                                |
| Bulk density        | - 1.98 kg/dm <sup>3</sup> for fine material  |

## 10. Stability and Reactivity

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| Stability                        | - The product is stable under normal conditions. |
| Hazardous decomposition products | - Heating may release chlorine gas.              |

## 11. Toxicological information

### Potential acute health effects

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| Eye contact        | - May cause irritation.  |
| Skin contact       | - May cause irritation to skin (Especially cuts and open wounds).  |
| Inhalation         | - May cause irritation to nasal passages, trachea and respiratory system.  |
| Ingestion          | - Swallowing large amounts may cause irritation of the gastrointestinal tract, diarrhoea and circulatory disturbances.   |
| Long term exposure | - High concentrations of dust ( $< 2 \text{ g/m}^3$ ) may cause perforation of the nasal spectrum. Long term exposure may cause chronic cough or mild bronchitis, but there is no evidence that it causes permanent lung damage. |

## 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

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|---------------------------|-----------------|
| 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.