



MATERIAL SAFETY DATA SHEET

POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Potassium Nitrate (Technical Grade) Fertiliser
Recommended use: Fertiliser
Supplier: Campbells Fertilisers Australasia
Address: 18 Raymond Road, Laverton North, Victoria, 3026
Telephone: (03) 9931 2211
Facsimile: (03) 9931 2201
Website: www.campbellsfert.com.au
Contact:
Emergency Telephone Number: 0011 32 (0) 3 203 9700

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - DANGEROUS GOODS

Hazard designation: Based on available information, not classified as hazardous according to the criteria of NOHSC.
Risk phrases: Not applicable.
Safety phrases: Not applicable.
ADG classification: This product is classified as a Class 5.1 Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (%):
Non-hazardous ingredients		



MATERIAL SAFETY DATA SHEET

POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air. Seek medical advice.
Skin contact:	Flush thoroughly with plenty of water and soap.
Eye contact:	In case of contact, immediately flush eyes with copious quantities of water for at least 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
Ingestion:	Rinse out mouth and give plenty of water to drink. Seek medical advice.
First Aid Facilities:	Ensure washing facilities are available.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water jets or water spray (large quantities), fog or foam.
Hazards from combustion products:	The product is not combustible, however it promotes fire. Decomposes on heating emitting toxic fumes including those of potassium nitrate, potassium peroxide.
Precautions for fire fighters:	Oxidiser. Keep away from reducing agents. Will explode if heated to 1000 °C in presence of reducing agents, organic materials or when mixed with cyanides. Do not inhale explosion or combustion gases. Use suitable respiratory protective device. Goggles giving complete protection to eyes. Plastic or synthetic rubber gloves. Fires should be fought from a protected location. Keep containers and adjacent areas cool with water spray. If safe to do so, remove containers from path of fire.

6. ACCIDENTAL RELEASE MEASURES

Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Sweep up, but avoid generating dust. Ensure adequate ventilation. Keep away from sources of ignition. Collect and seal in properly labelled containers for disposal or reuse. Wash area down with excess water. Do not contaminate streams, rivers or waterways.

MATERIAL SAFETY DATA SHEET

POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

7. HANDLING AND STORAGE

Handling: Promotes the combustion of combustible substances. Keep away from combustible material. In case of fire and/or explosion, do not breathe the fumes. Avoid excessive generation of dust. Avoid contact with eyes. Avoid breathing dust. Use with adequate ventilation. Wear gloves when handling the product over long periods.

Storage: Store in a cool, dry place and away from combustible materials and reducing agents. Storage area should be well ventilated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering controls: General ventilation. Local exhaust ventilation is recommended to avoid breathing dust. Keep containers closed when not in use.

Personal Protective Equipment:

Eyes:
Safety goggles.

Gloves:
Avoid prolonged contact with skin; wear impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet.

Respiratory:
Use an approved dust respirator to protect from dust.

Other:
None

Other Use Precautions: Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline; prills

Odour: Odourless

Vapour pressure: Not applicable

Vapour density: Not available

Boiling point: 400 °C

Melting point: 334 °C

Solubility: soluble

Density: 1.1 g/cm³



MATERIAL SAFETY DATA SHEET

POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

pH:	6 to 9 (1% solution in water)
Molecular Weight:	
Flash Point:	Not Applicable
Flammability (explosive) limits:	Not flammable
Auto-ignition temperature:	Not Applicable
Octanol/water partition coefficient:	Not available

10. STABILITY AND REACTIVITY

Chemical stability:	Strong oxidising agent
Hazardous polymerisation:	Will not occur
Conditions to avoid:	Avoid contact with fibrous organic material. Avoid contact with strong acids, toxic fumes of nitrogen dioxide will occur.
Incompatible materials:	Avoid contact with reducing agents and flammable or combustible materials.
Hazardous decomposition products:	Strong oxidising agent. Non-combustible, but will support combustion of other materials. Decomposes on heating emitting toxic fumes including those of nitrous oxides; potassium nitrite, potassium peroxide

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Information on Product:

Inhalation:	May cause respiratory irritation.
Skin contact:	Normally non-hazardous. Repeated or prolonged skin contact may cause irritation.
Eye contact:	Dust may cause irritation.
Ingestion:	Swallowing large amounts may result in anaemia, headaches, heart beat irregularities, cramps and breathing difficulties.
Other:	No other known health effects.
Chronic:	Not available

Information on Components: Not available

MATERIAL SAFETY DATA SHEET

POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

Acute:

Oral toxicity:	Oral LD ₅₀ (rat) = 3750 mg/kg
Dermal toxicity:	Not available
Inhalation toxicity:	Not available
Skin irritation:	Not available
Eye irritation:	Not available
Sensitisation:	Not available

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways with product.

Environmental fate:	Excess of nitrates in lakes, rivers and waterways may lead to eutrophication.
Mobility:	No data available
Persistence / degradation:	No data available
Ecotoxicological Information:	

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method:

Depending on degree or nature of contamination, dispose of by use as a fertiliser on farm or to an authorised waste facility.

Contaminated Packaging:

Empty containers must be handled according to local regulations.

14. TRANSPORT INFORMATION

UN number:	1486
Proper shipping name:	POTASSIUM NITRATE
Class and Subsidiary Risk:	CLASS 5.1
Packing Group:	III
EPG:	5A1
Hazchem code:	1[T]



MATERIAL SAFETY DATA SHEET
POTASSIUM NITRATE (TECHNICAL GRADE) FERTILISER

Date of Issue: January 01, 2011

15. REGULATORY INFORMATION

Based on available information, not classified as hazardous according to criteria of Worksafe Australia.

Poisons Schedule (Aust)/Toxic Substance (NZ): Exempt.

16. OTHER INFORMATION

Trademark information:

Preparation information: Prepared by Campbells Fertilisers Australasia

Data sources: Supplier MSDS

END OF MSDS