



MATERIAL SAFETY DATA SHEET

CALCIUM NITRATE (GREENHOUSE GRADE) FERTILISER

Date of Issue: January 01, 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Calcium Nitrate (Greenhouse Grade) Fertiliser**
Recommended use: Calcium Nitrate 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: (03) 9931 2211 (business hours only 8.30 to 5.00)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

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 not classified as a 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		

Technical calcium nitrate is a fertiliser consisting mainly of a double salt (calcium nitrate and ammonium nitrate) containing not more than 10% ammonium nitrate and at least 12% water of crystallisation.



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4. FIRST AID MEASURES

- Inhalation:** Remove person from exposure to dusts. Seek medical advice if ill effects occur.
- Skin contact:** Wash contaminated skin with plenty of soap and water.
- Eye contact:** Immediately flush/irrigate eyes with copious quantities of water for at least 10 minutes. Obtain medical attention if eye irritation persists.
- Ingestion:** Do not induce vomiting. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice if more than a small quantity has been swallowed.
- First Aid Facilities:** Ensure washing facilities are available.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water jets or water spray (large quantities).
- Hazards from combustion products:** Calcium nitrate is not flammable but may cause fire on contact with combustible materials. The burning of all combustibles is greatly intensified. Toxic oxides of nitrogen are produced when calcium nitrate is strongly heated.
- Precautions for fire fighters:** Avoid breathing the fumes. Stand upwind of the fire. Wear full protective clothing and approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Any spillage of fertiliser should be cleaned up promptly and placed in an open container for safe disposal. Depending on degree and nature of contamination, dispose of by use as a fertiliser or to an authorised waste facility. Inform appropriate authority in case of accidental contamination of watercourses. Do not contaminate streams, rivers or waterways.



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7. HANDLING AND STORAGE

- Handling:** Avoid excessive generation of dust. Avoid fertiliser contamination by combustible (such as diesel oil, grease) and incompatible materials. Avoid contact with eyes. Use personal protective equipment when handling the product over long periods.
- Storage:** Store in a cool, dry place and away from combustible materials. Do not permit smoking and the use of naked lights in storage areas. Avoid unnecessary exposure to the atmosphere to prevent moisture uptake.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure standards:** No occupational exposure standards have been established for the product or its ingredients.
- Engineering controls:** Avoid high dust concentration and provide general ventilation. Keep containers closed when not in use.
- Personal Protective Equipment:**
- Eyes:*
Safety glasses with side shields.
 - Gloves:*
Wear rubber gloves when handling the product over long periods. Always wash hands before smoking, eating, drinking or using the toilet.
 - Respiratory:*
Use an approved dust respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716 if dust concentration is high.
 - Other:*
None
- Other Use Precautions:** Wash contaminated clothing and other protective equipment before storage or re-use. To be used strictly in accordance with label instructions.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** White or light brown granules.
- Odour:** Odourless
- Vapour pressure:** Not available
- Vapour density:** Not available
- Boiling point:** Not available

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Freezing/melting point:	Not available
Solubility:	Highly soluble in water
Density:	1100 to 1200 kg/m ³
pH:	6 to 7 (10% solution)
Molecular Weight:	Not available
Flash Point:	Not available
Flammability (explosive) limits:	Not available
Auto-ignition temperature:	Not available
Octanol/water partition coefficient:	Not available

10. STABILITY AND REACTIVITY

Chemical stability:	No information available
Hazardous polymerisation:	No information available
Conditions to avoid:	Avoid unnecessary exposure to the atmosphere Avoid contamination by combustible materials
Incompatible materials:	No information available
Hazardous decomposition products:	Toxic oxides of nitrogen are produced when calcium nitrate is strongly heated.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Information on Product:

Inhalation:	High dust concentrations of airborne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.
Skin contact:	Repeated or prolonged skin contact may cause irritation.
Eye contact:	Dust may cause irritation.
Ingestion:	Small quantities unlikely to cause toxic effect. Large quantities may result in gastro-intestinal disorders.
Other:	No other known health effects.



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Chronic: No information available

Information on Components: No information available

Acute:

Oral toxicity: Not available

Dermal toxicity: Not available

Inhalation toxicity: Not available

Skin irritation: Not available

Eye irritation: Not available

Sensitisation: Not available

12. ECOLOGICAL INFORMATION

Environmental fate: Calcium nitrate is very soluble in water. The nitrate ion is the predominant form of plant nutrition. It follows the natural nitrification/denitrification cycle to give nitrogen.

Mobility: No data available

Persistence / degradation: No data available

Ecotoxicological Information: No data available

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: Not applicable

Proper shipping name: Not applicable

Class and Not classified as Dangerous Goods for transport by road or rail according



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Subsidiary Risk: to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packing Group: Not applicable

EPG: Not applicable

Hazchem code: Not applicable

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