

SAFETY DATA SHEET

PRODUCT NAME: CALCIUM NITRATE (HORT GRADE)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Recommended use: Fertiliser
Other Names: Calcinit, Omnical, Calcium Nitrate Prill
Supplier: Baileys Fertilisers
Address: 24 Beach St
 Kwinana Beach
 Western Australia 6167
Telephone: (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)
Emergency Contact: Poisons Information Centre on 13 11 26
Facsimile: (08) 9439 1068
Email: baileys@baileysfertiliser.com.au
Website: baileysfertiliser.com.au

2. HAZARD IDENTIFICATION

1. GHS Classification: Hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

2. Signal Word: **Danger**

3. Hazard Category(s): Eye Damage Category 1
 Acute Toxicity (Oral) Category 4

4. Hazard Symbol:



5. Hazard Statement(s): H318 Causes serious eye damage
 H302 Harmful if swallowed

6. Precautionary Statements:

Prevention: P264 Wash hands and exposed body parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / eye protection / face protection.

Response: P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor / physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor / physician.

P330 Rinse mouth.

Storage: N/A

Disposal: P501 Dispose of contents/container in accordance with local or national regulations.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % w/w
Nitric acid, ammonium calcium salt	15245-12-2	>= 80
Non-hazardous ingredients	N/A	Remainder

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Inhalation: Avoid breathing dust. If inhaled, remove to fresh air.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Medical Attention and Special Treatment: No specific treatment. Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. FIRE FIGHTING MEASURES

General Measures: No specific fire or explosion hazard. Non-flammable substance.

Flammability: Non-flammable substance.

Extinguishing Media: Use flooding quantities of water for extinction. Do not use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Hazardous Products of Combustion: These products are nitrogen oxides and metal oxide / oxides.

Special Fire Fighting Instructions: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Personal Protection: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Clean Up Procedures:

Small Spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Material free from contamination can be used for its original purpose.

Large Spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

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contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. HANDLING AND STORAGE

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Product forms slippery surface when combined with water. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage: Store in accordance with local regulations. Store locked up. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from acids or bases. Keep away from: organic materials, oil and grease.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure standards: No exposure standards have been entered for this product.

Exposure controls

Engineering controls: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: A washing facility or water for eye and skin cleaning purposes should be present.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Tightly-fitting goggles.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

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Respiratory protection: In case of inadequate ventilation wear respiratory protection. Recommended: Approved/certified disposable particulate dust mask.

PPE:



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid (crystalline powder or prill)
Odour	Odourless
Flash Point	Not available
Boiling Point	Not available
Melting Point	400 °C
Evaporation Rate	Not available
pH	5 - 7 (110 g/L with water)
Vapour density	Not available
Density	1,100 kg/m ³
Solubility (water)	100 g/L @ 20°C. Easily soluble in cold water.
Vapour pressure	Not available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not available
Autoignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Odour threshold	Not available

10. STABILITY AND REACTIVITY

General Information:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions:	Will not occur under normal conditions of storage and use.
Conditions to avoid:	Avoid contamination by any source including metals, dust and organic materials. Keep away from heat, sparks and flame. Store away from direct sunlight.
Materials to Avoid:	Acids, alkalis, combustible materials, reducing materials, organic materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this SDS and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

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Acute toxicity:

Product/ingredient name	Result	Species	Dose	Exposure	References
Nitric acid, ammonium calcium salt	LD50 Oral	Rat	500 mg/kg OECD 423	Not applicable	IUCLID
	LD50 Dermal	Rat	2,000 – 5,000 mg/kg OECD 402	Not applicable	

Conclusion / Summary: Harmful if swallowed. May be harmful in contact with skin.

Irritation / Corrosion:

Product/ingredient name	Result	Species	Score	Exposure	Observation	References
Nitric acid, ammonium calcium salt	Eyes – Severe irritant OECD 405	Rabbit	Not applicable	24 – 72 h	21 d	IUCLID

Conclusion / Summary: Skin: No known significant effects or critical hazards.
Eyes: Causes serious eye damage.
Respiratory: No known significant effects or critical hazards.

Sensitisation:	Not classified as a sensitiser.
Mutagenicity:	Not classified as a mutagen.
Carcinogenicity:	Not classified as a carcinogen. Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation is classified in Group 2A of the IARC Monographs – Probably carcinogenic to humans.
Reproductive:	Not classified as a reproductive toxin.
Chronic Effects:	No known significant effects or critical hazards.
Aspiration:	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Aquatic toxicity: LC50 447 mg/L (Fresh Water), <i>Fish</i> [48 hrs] (IUCLID 5) EC50 > 100 mg/L (Fresh Water), <i>Daphnia</i> , [48 hrs] (IUCLID 5) LC50 > 100 mg/L (Fresh Water), <i>Algae</i> , [72 hrs] (IUCLID 5) EC50 > 1000 mg/L (Activated Sludge), <i>Activated sludge</i> , [3 hrs], (IUCLID 5)
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Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: No known significant effects or critical hazards.

Mobility in soil:	This product may move with surface or groundwater flows because its water solubility is high.
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13. DISPOSAL CONSIDERATIONS

Disposal:	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and
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any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or returned for recycling. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG or IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
UN Number	Not applicable.		
Proper Shipping Name	Not applicable.		
Transport Hazard Class	Not applicable.		
Packing Group	Not applicable.		
Hazchem Code	Not applicable.		

15. REGULATORY INFORMATION

Poison schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Classifications	<p>Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.</p> <p>The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substance [NOHSC: 1008(2004)].</p>
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Disclaimer	<p>This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.</p> <p>While Baileys Fertilisers has taken all due care to include accurate and up to date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Baileys Fertilisers accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.</p> <p>As the use of the products described in this document is outside the control of Baileys Fertilisers, we make no representation or warranty concerning the suitability or fitness of this product for any purpose. It is your sole responsibility to ensure that the product will have the qualities and attributes that will make them fit for any ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes</p>
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responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the product and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

Revision

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Date

18/06/2020

End of SDS