

Material Safety Data Sheet

infosafe
CS: 3.5.5

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Infosafe No™ ACEJA Issue Date : February 2023 DRAFT by ACECHEM

Product Name **CALCIUM NITRATE**

Classified as hazardous

Section 1 - Identification

Product Identifier	CALCIUM NITRATE				
Company Product Codes / Numbers / Unique Identifiers	C551620				
Company Name	ACE CHEMICAL COMPANY (ABN 35619819300)				
Address	119A Mooringe Avenue Camden Park SA 5038 AUSTRALIA				
Telephone/Fax Number	Tel: 08-8376 0844 Fax: 08-8295 8563				
Emergency Phone Number	0438760844				
E-mail Address	acechem@bigpond.com				
Other Names	<table><thead><tr><th>Name</th><th>Product Code</th></tr></thead><tbody><tr><td>Calcium nitrate tetrahydrate</td><td></td></tr></tbody></table>	Name	Product Code	Calcium nitrate tetrahydrate	
Name	Product Code				
Calcium nitrate tetrahydrate					
Other Information	Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.				

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Eye Damage/Irritation: Category 2A Oxidizing Solids: Category 3 Skin Corrosion/Irritation: Category 2 STOT Single Exposure: Category 2
Signal Word	WARNING
Hazard Statement (s)	H272 May intensify fire; oxidiser. H315 Causes skin irritation. H319 Causes serious eye irritation. H371 May cause damage to organs .
Pictogram (s)	Exclamation mark, Flame over circle, Health hazard



Precautionary Statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P220 Keep/Store away from clothing//combustible materials. P221 Take any precaution to avoid mixing with combustibles P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P370+P378 In case of fire: Use for extinction.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to .

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Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Calcium Nitrate	10124-37-5	100 %

Section 4 - First Aid Measures

Inhalation	Remove the source of contamination or move the victim to fresh air. Seek medical attention if condition persists.
Ingestion	Rinse mouth with water and then give plenty of water to drink. DO NOT induce vomiting and seek medical attention if large amounts ingested.
Skin	If contact with the skin occurs immediately remove contaminated clothing and wash affected area with soap and water. If irritation persists seek immediate medical attention.
Eye	If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention if irritation develops or persists.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water jets.
Specific Methods	Wear self-contained breathing apparatus and full protective clothing.
Specific Hazards Arising from the Chemical	Greatly increases the burning rate of combustible materials. Fire or excessive heat may produce hazardous decomposition products.
Hazchem Code	1[Z]

Section 6 - Accidental Release Measures

Spills & Disposal	Clear area. Wear full protective clothing. Sweep up material and dissolve in a large amount of water. Add soda ash, mix and neutralise carefully with 6M HCl. Flush to sewer with a large amount of water. Discharge, treatment, or disposal may be subject to federal, state or local laws.
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Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities	Material is a strong oxidiser. Keep from contact with clothing, other combustible materials and reducing agents. Do not store near combustible materials. Store in tightly closed containers. Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks.
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Section 8 - Exposure Controls and Personal Protection

Other Exposure Information	No exposure standards have been established for this product by Worksafe Australia, however, where there is a build-up of dusts, the TWA exposure standard for dusts not otherwise specified is 10 mg/m3.
Engineering Controls	Good ventilation should be sufficient. Where ventilation is inadequate, a dust extraction system may be required.
Personal Protective Equipment	Respiratory: Where ventilation is inadequate, a P1 half facepiece respirator with replacable filter or disposable facepiece as specified by AS/NZS 1715 and 1716 is recommended. Eyes: Suitable chemical glasses. Hands: Nitrile, neox or neoprene.

Section 9 - Physical and Chemical Properties

Appearance	White solid
Melting Point	42°C

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Boiling Point	Not available
Solubility in Water	Appreciable
Specific Gravity	(Water = 1) 1.82
Vapour Pressure	Negligible
Volatile Component	Negligible
Flash Point	Not applicable
Flammability	Not combustible.
Flammable Limits - Lower	Not applicable
Molecular Weight	236.15

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions	STABILITY: Stable INCOMPATIBILITY: Reducing agents, combustible materials HAZARDOUS POLYMERISATION: Will not occur
Hazardous Decomposition Products	Thermal decomposition may produce oxides of nitrogen.

Section 11 - Toxicological Information

Toxicology Information	Skin (rabbit), 500 mg/24 hr, moderate; Eye (rabbit), 500 mg/24 hr, severe; Oral (rat), LD50: 3900 mg/kg More detailed information about the effects of chemicals on health can be obtained from Worksafe Australia.
Ingestion	May be harmful if swallowed. May cause irritation to the mouth, throat and stomach. Swallowing large amounts may result in nausea, diarrhoea, abdominal pain and vomiting.
Inhalation	Not a likely source of exposure, however, dusts may cause mechanical irritation to the nose, throat and upper respiratory tract.
Skin	Causes irritation and redness on contact with the skin.
Eye	Causes irritation on contact with the eyes resulting in lachrymation and redness and transient pain.
Chronic Effects	Prolonged or repeated contact may lead to skin contact dermatitis.

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Waste Disposal	Dispose of in accordance with local, federal and state regulations.
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Section 14 - Transport Information

Transport Information	This material is a Class 5.1 Oxidizing Agent according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 5.1 - Oxidizing Agents shall not be loaded in the same vehicle or packed in the same freight container with: Class 1 - Explosives, Class 2.1 - Flammable Gases, Class 2.3 - Poisonous Gases, Class 3 - Flammable Liquids, Class 4.1 - Flammable Solids, Class 4.2 - Spontaneously Combustible Substances, Class 4.3 - Dangerous When Wet Substances, Class 5.2 - Organic Peroxides, Class 6 Poisonous (toxic) Substances (where the poisonous substances are fire risk substances), Class 7 Radioactive Substances, Class 8 Corrosive Substances, Class 9 Miscellaneous Dangerous Goods (where the miscellaneous dangerous goods are fire risk substances), Fire risk substances other than dangerous goods.
ADG UN Number	1454
ADG Proper Shipping Name	CALCIUM NITRATE

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ADG Transport 5.1
Hazard Class
ADG Packing Group III
Hazchem Code 1[Z]
EPG Number 5A1
IERG Number 31

Section 15 - Regulatory Information

Poisons Schedule Not Scheduled
Packaging & Labelling As required by the National Code of Practice for the Labelling of Workplace hazardous substances and the ADG Code.

Section 16 - Any Other Relevant Information

Contact Person/Point Ace Chemical Company
119A Mooringe Avenue
Camden Park S.A. 5038
Tel: 08-8376 0844 Fax: 08-8295 8563
or Poisons Information Centre
Tel: 13 11 26
Disclaimer:
Ace Chemical Company has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Ace Chemical Companies control.

Empirical Formula & Structural Formula Ca(NO₃)₂·4H₂O

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