

Infosafe No™ 1CH1N Issue Date : November 2020 RE-ISSUED by CHEMSUPP

Product Name **CALCIUM NITRATE Tetrahydrate**

Classified as hazardous

1. Identification

GHS Product Identifier CALCIUM NITRATE Tetrahydrate

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000

Emergency phone number CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

E-mail Address www.chemsupply.com.au

Recommended use of the chemical and restrictions on use Pyrotechnics, explosives, matches, electronic industry, fertilisers, other nitrates, source of 14C by nuclear irradiation, analytical chemistry and laboratory reagent.

| Other Names | Name | Product Code |
|-------------|--|--------------|
| | CALCIUM NITRATE Tetrahydrate LR | CL015 |
| | CALCIUM NITRATE Tetrahydrate AR | CA015 |
| | Lime nitrate, Nitrocalcite, Lime saltpeter | |

Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

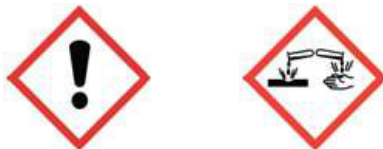
2. Hazard Identification

GHS classification of the substance/mixture Acute Toxicity - Oral: Category 4
Eye Damage/Irritation: Category 1

Signal Word (s) DANGER

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

Pictogram (s) Exclamation mark, Corrosion



Precautionary statement – Prevention 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 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
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 CENTER or doctor/physician.

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Precautionary statement – Disposal P501 Dispose of contents/container to licensed waste disposal depot.

3. Composition/information on ingredients

| Ingredients | Name | CAS | Proportion |
|-------------|------------------------------|------------|------------|
| | Calcium nitrate tetrahydrate | 13477-34-4 | 100 % |

4. First-aid measures

| | |
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| Inhalation | If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear. |
| Ingestion | Rinse mouth thoroughly with water immediately. Do not induce vomiting. Seek medical advice. |
| Skin | Wash affected areas with copious quantities of water. If irritation occurs seek medical advice. Remove contaminated clothing and wash before re-use. |
| Eye contact | Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice. |
| First Aid Facilities | Maintain eyewash fountain and safety shower in work area. |
| Advice to Doctor | Treat symptomatically based on judgement of doctor and individual reactions of the patient. |
| Other Information | For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor. |

5. Fire-fighting measures

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| Hazards from Combustion Products | May liberate toxic fumes in fire including oxides of calcium and nitrogen and nitrous gases. |
| Specific Methods | Small fire: Use dry chemicals, CO2 or foam. Large fire: Flood fire area with water or alcohol resistant foam from a protected position. Dam fire control water for later disposal. |
| Specific hazards arising from the chemical | May accelerate burning when involved in a fire. May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. |
| Hazchem Code | 1[Z] |
| Decomposition Temp. | >130 °C (release of crystalline water), 561 °C |
| Precautions in connection with Fire | Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection. |

6. Accidental release measures

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| Spills & Disposal | Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Dry Spill Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations. Small Liquid Spill Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal. Large Liquid Spill SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL. |
| Personal Precautions | Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. |
| Personal Protection | Wear protective clothing specified for normal operations (see Section 8) |

7. Handling and storage

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|---|---|
| Precautions for Safe Handling | Avoid substance contact and generation and inhalation of dust. Keep away from combustibles. |
| Conditions for safe storage, including any incompatibilities | Store away from combustible materials. Store in a cool, dry place. Keep containers closed at all times. Keep away from heat |
| Storage Regulations | Refer Australian Standard AS 4326-1995 'The storage and handling of oxidizing agents'. |

8. Exposure controls/personal protection

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| Other Exposure Information | No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. |
| Appropriate engineering controls | Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. |
| Respiratory Protection | Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. |
| Eye Protection | The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. |
| Hand Protection | Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. |
| Personal Protective Equipment | Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards. |
| Footwear | Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. Recommendation: Rubber boots. |
| Body Protection | Clean impervious clothing should be worn, preferably with an apron for extra protection. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. |
| Hygiene Measures | Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. |

9. Physical and chemical properties

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|-------------------|----------------------------|
| Form | Solid |
| Appearance | Colourless, or white mass. |
| Odour | Odourless |

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| Decomposition Temperature | >130 °C (release of crystalline water), 561 °C |
| Melting Point | 44-45 °C |
| Solubility in Water | Soluble (2710 g/L @ 40 °C) |
| Solubility in Organic Solvents | Soluble in alcohol and acetone. |
| Specific Gravity | 1.82 |
| pH | 5.0 - 7.0 (50 g/l, H ₂ O, 25 °C) |
| Molecular Weight | 236.15 |

10. Stability and reactivity

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| Chemical Stability | Stable. Hygroscopic. |
| Incompatible Materials | Organ combustible material, reducing agents, strong acids, alcohols, amines, ethers, ketones, carboxylic acids and ammonium compounds. |
| Hazardous Decomposition Products | Oxides of calcium and nitrogen and nitrous gases. |
| Hazardous Polymerization | Will not occur. |

11. Toxicological Information

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| Acute Toxicity - Oral | Category 4 LD50 (rat): 300 - 2000 mg/kg. (OECD Test Guideline 423) |
| Ingestion | May cause irritation to the gastrointestinal tract, nausea and vomiting. |
| Inhalation | May be irritating to respiratory system causing nausea and vomiting. |
| Skin | May be irritating to skin. |
| Eye | Causes serious eye damage. |
| Respiratory sensitisation | Not classified based on available information. |
| Skin Sensitisation | Not classified based on available information. |
| Germ cell mutagenicity | Not classified based on available information. |
| Carcinogenicity | Not classified based on available information. |
| Reproductive Toxicity | Not classified based on available information. |
| STOT-single exposure | Not classified based on available information. |
| STOT-repeated exposure | Not classified based on available information. |
| Serious eye damage/irritation | Category 1 |
| Mutagenicity | Not classified based on available information. |

12. Ecological information

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|--|---|
| Ecotoxicity | Quantitative data on the ecological effect of this product are not available. |
| Persistence and degradability | Methods for the determination of biodegradability are not applicable to inorganic substances. |
| Information on Ecological Effects | The following applies to nitrates in general: may contribute to the eutrophication of water supplies. |
| Environmental Protection | Do not allow to enter waters, waste water, or soil! |

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Acute Toxicity - Fish The following applies to nitrates in general: fish: LC50: >500 mg/l.

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Dangerous goods of Class 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following:
Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and Combustible liquids.

U.N. Number 1454

UN proper shipping name CALCIUM NITRATE

Transport hazard class(es) 5.1

Hazchem Code 1[Z]

Packing Group III

EPG Number 5A1

IERG Number 31

15. Regulatory information

Regulatory Information All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule Not Scheduled

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula Ca(NO3)2.4H2O

...End Of MSDS...

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