



Material Safety Data Sheet

VIVAL CHEMICALS PTY. LTD.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- **Product Name:** Calcium Chloride
- **Other Names:** Calcium Chloride Dihydrate
- **Recommended Use:** Refrigeration Brines, Drying & Desiccant.

- **Supplier:** Vival Chemicals Pty Ltd
- **ABN:** 61 266 127 926
- **Address:** 14 Thomas Rd, Laverton North, 3026, Victoria, Australia.

- **Telephone:** + 61 (03) 9360 9800
- **Fax:** + 61 (03) 9390 9697
- **Emergency Telephone:** Kieron Vale: **0417 374 389**
Poisons Information Centre: **131 126**

2. HAZARD IDENTIFICATION

- **Hazard Classification** This material is Hazardous according to criteria of National Occupational Health & Safety Commission. (Hazardous Substance/Non Dangerous Good).

- **Hazard Category:** Xi : Irritant

- **Risk Phrase(s):**
R36. Irritating to Eyes.

- **Safety Phrase(s):**
S22. Do not breathe dust
S25. Avoid contact with eyes.
S26. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. Ph 13 11 26 (Australia Wide).
S36/39. Wear suitable protective clothing, gloves and eye/face protection.

- **Poisons Schedule:** None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE:

- **Chemical identity of the pure substance:** Calcium Chloride **CaCl₂**
- **Common name(s), synonym(s):** Calcium Chloride Flakes
- **CAS Number(s):** Calcium Chloride (10043 – 52 – 4) ... > 74 %
Water Balance (7732 – 18 – 5) ... < 26%

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4. FIRST AID MEASURES

FIRST AID

- Eye:** Eyelids to be held open.
Wash continuously with water for at least 15 minutes.
In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Skin:** Wash affected areas with plenty of water.
Remove contaminated clothing and wash before re-use.
Seek medical advice if irritation occurs.
- Inhaled:** Remove victim to fresh air.
Avoid becoming a casualty.
Allow patient to assume most comfortable position and keep warm.
Seek medical advice.
- Swallowed:** Rinse mouth with water.
Immediately contact Poisons Information Centre on 131126 (Aust. Wide).
Give water to drink.
DO NOT induce vomiting.
If vomiting occurs give further water to achieve effective dilution.
Seek medical assistance.
- Advice to Doctor:** Treat symptomatically.

Addition Information: Not Available

5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard:

- Non – Combustible material. If involved in a fire will liberate Hydrogen.
- Keep container cool with water spray.
- Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion or decomposition.

Suitable Extinguishing Media: (Any or either of the following)

- Water Jets or Water Fog - in the absence of fog a fine spray must be used or Foam or Dry Agent - Water must NOT be allowed to come into contact with the dangerous goods at risk.

Additional Information: Hazchem Code: None Allocated.

6. ACCIDENTAL RELEASE MEASURES

- **Emergency procedures:**
Clear area of all unprotected personnel. Avoid accidents. Clean up immediately. Wear personal protective equipment. Ensure adequate ventilation.
- **Methods and materials for containment and clean up:**
Contain- prevent runoff into drains & waterways. Use Absorbent (Sand, soil or other inert material). Collect and seal in properly labelled containers for disposal. If contamination of sewers has occurred advise local emergency services.

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7. HANDLING AND STORAGE

- Storage and handle in accordance with all Commonwealth, State or Territory regulations relevant to hazardous substances, dangerous goods and poisons.
- Ensure correct fitting of Personal Protective Equipment prior to handling.
- Store in a cool, dry place away from direct sunlight.
- Keep containers closed when not in use.
- Do not enter confined spaces where vapours may have collected.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards:

No value assigned for this specific material, however for the product, Ammonium Chloride (Fume)

ES-TWA =	10 mg/m ³ Nuisance Particulate (Respirable Dust) Should Apply.
ES-STEL =	Not Available.
ES-PEAK Limitation =	Not Available.

- **ES-TWA is the Time Weighted Average** concentration of the work atmosphere for a normal 8-hour day and a 40 hour week, to which nearly all workers can be repeatedly exposed, day after day, without adverse effect.
- **ES-STEL - Short Term Exposure Limit** is the average airborne concentration over a fifteen minute period which should not be exceeded at any time during a normal eight hour work day.
- **ES- PEAK LIMITATION** (For some rapidly acting substances and irritants, the average of airborne concentration over an eight hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed.
An analytically practicable period of time which does not exceed 15 minutes).

Engineering Controls:

- Ensure ventilation is adequate and that air concentrations of components are controlled below quoted exposure standards.

Personal Protective Equipment:

- The Selection of Personal Protective Equipment should be made following a detailed risk assessment. Consideration should be given to the physical form of the chemical, the handling methods and environmental factors such as the area of use, ventilation and exposure times and levels.
- Wear safety goggles/glasses, chemically resistant P.V.C or nitrile rubber gloves, protective clothing and protective footwear.
- If dusts exist, wear a particulate/mist type respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.
- Always wash hands before smoking, eating, drinking or using the toilet.
- Use with adequate ventilation.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Formula: Ca Cl₂

- **Appearance**
 - **Colour:** White to beige.
 - **Physical form:** Solid.
 - **Shape:** Flakes or Granules.
- **Odour** Odourless
- **pH** 8-10
- **Vapour Pressure** Not available
- **Vapour Density** Not available
- **Boiling Point** Not available
- **Melting Point** 772°C
- **Solubility** Soluble in water and alcohol.
- **Density** 1.86
- **Molecular Weight** 110.99
- **Flash point:** Not available (Does not burn)
- **Method of detecting flash point;** Not available
- **Upper and lower flammable (explosive) limits in air:** Not available
- **Ignition temperature:** Not available

Additional Information:

- *No Data Available*

10. STABILITY AND REACTIVITY

- **Chemical stability:** Product is stable under normal ambient and anticipated storage and handling condition of temperature and pressure.
- **Conditions to avoid:** Material is hygroscopic (will absorb moisture). Keep containers closed when not in use.
- **Incompatible Materials:** Corrosive to most metals in the presence of moisture.
- **Hazardous decomposition products:** Calcium and Chlorides.
- **Hazardous Reactions:** Reacts exothermically in water.

11. TOXICOLOGICAL INFORMATION

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Chronic Effects: Repeated or Prolonged skin contact may cause chronic dermatitis.

ACUTE EFFECTS:

- **Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain.
- **Eye Contact:** Contact with eyes may result in irritation.
- **Skin Contact:** Contact with skin may result in irritation.
Corrosive to skin – may cause skin burns.
- **Inhalation:** Breathing in dusts may produce respiratory irritation.
- **Toxicity Data:** No data available for this product.

Oral LD50 = Not available
Dermal LD50 = Not available
Inhalation LC50 = Not available

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12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Avoid Contaminating Waterways
- **Persistence and degradability:** Not Available
- **Mobility:** Not Available

Additional Information

- **Environmental Fate (Exposure):** Not Available
- **Bioaccumulative potential:** Not Available

13. DISPOSAL CONSIDERATIONS

- **Spills and Disposals:**
Collect and seal in properly labelled drums for disposal to an Approved Trade Waste Facility.
- **Special precautions for landfill or incineration:**
Not Available.

14. TRANSPORT INFORMATION

- **UN Number:** None Allocated
- **Dangerous Goods Class:** None Allocated
- **Hazchem Code:** None Allocated
- **UN Proper Shipping name:** None Allocated
- **Subsidiary risk:** None Allocated
- **Packing Group:** None Allocated
- **Special Precautions for user:** No data available

15. REGULATORY INFORMATION

- Designated a Hazardous Substance (**Xi : Irritant**) by the National Occupational Health and Safety Committee (NOHSC).

Additional Information:

No data available

16. OTHER INFORMATION

- Prepared & Revised: August 2006
- Previous Revision: May 2003

Additional Information

- Not Available

END OF MATERIAL SAFETY DATA SHEET

DISCLAIMER

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