

N.Z. CROP CARE LTD.

Science our Future

Material Safety Data Sheet - MSDS

Section 1: Chemical Product and Company Identification

Product Name: Calcium Nitrate
*also known as Compound Fertilizer
Calcium Salt
Calcium Dinitrate*

Chemical Formula: Ca(NO₃)₂

Contact Information:

NZ Crop Care Ltd
164 Manuaku Rd
Pukekohe 2340
New Zealand

NZ Sales: **09 238-0449**
International Sales: **0064-9-2380449**

ERMA NZ Approval Code: HSR001318

HSNO Hazard Classifications:
5.1.1C – 6.1D – 6.3B – 9.3B

NATIONAL POISONS CENTRE:
0800 764-766

CHEMCALL: 0800 243-622

Section 2: Composition and Information on Ingredients

COMPOSITION:

| Name | C.A.S No | % by Weight |
|-----------------|------------|-------------|
| Calcium nitrate | 10124-37-5 | 100 |

Toxicological Data on Ingredients: Oral rat LD50: 3900 mg/kg. Irritation eye rabbit 500mg/24H severe.

Section 3: Hazards Identification

Emergency Overview:

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.

Potential Health Effects:

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

INGESTION: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain.

EYE CONTACT: Causes irritation, redness, and pain.

CHRONIC EXPOSURE: No information found.

AGGRAVATION OF PRE-EXISTING CONDITIONS: No information found.

Section 4: First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Section 5: Fire and Explosion Data

Fire and Explosion Hazards: Can cause explosions in contact with combustible dusts or vapors; occasionally explosive by shock or friction. Sensitive to mechanical impact.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Protective Measure in Fire: In the event of a fire, wear full protective clothing and approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

Special Information: Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.

Section 6: Accidental Release Measures

Personal Precaution in Spill: Wear appropriate personal protective equipment as specified in Section 8.

Environment: Ventilate area of leak or spill.

Spill Clean Up: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

Section 7: Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Protective Equipment: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Process Conditions: No airborne exposure limits established.

Respirators: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Protective Gloves: Wear protective gloves.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Other Protection: Wear clean, body-covering clothing.

Hygienic Work Practices: As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not smoke or leave food in work area. Wash thoroughly and remove or clean any contaminated clothing.

Section 9: Physical and Chemical Properties

Appearance: Crystals

Color: white

Odor/Taste: Odorless

Specific Gravity: 2.36

Solubility: Soluble

Solubility Value: 121g/100g of H₂O

Boiling Point: 45C

Melting Point: 45C (113F)

Section 10: Stability and Reactivity Data

Stability: Stable. However, exposure to heat may result in build-up of dangerous pressures. A strong oxidizer reacts violently upon contact with many organic substances, particularly textile and paper.

Hazardous Decomposition Products: Oxides of nitrogen.

Conditions to Avoid: Heat, flame, ignition sources, shock and incompatibles, including combustible materials, organic materials, powdered metals, ammonia, hydrazine, and reducing agents.

Section 11: Toxicological Information

Toxic Dose LD 50: Oral rat LD50: 3900 mg/kg.

Toxicological Info: No information found.

Inhalation: No information found.

Skin: No information found.

Eyes: Irritation eye rabbit 500mg/24H severe.

Medical Symptoms: No information found.

Section 12: Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: The LC50/96-hour values for fish are over 100 mg/l.

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

DOT Classification: CLASS 5.1: Oxidizing material.

Identification: Calcium Nitrate: UN Number: 1454 / Pack Group: III

Information reported for product/size: 100KG

Section 15: Other Regulatory Information

Chemical Inventory Status: Calcium Nitrate: 10124-37-5 anhydrous grade

China: No

Korea: Yes

Japan: Yes

Australia: Yes

Philippines: Yes

DSL: Yes

NDSL: No

TSCA (*The Toxic Substances Control Act*): Yes

EINECS (*European Inventory of Existing Chemical Substances*): Yes

Section 16: Other Information

NFPA Ratings:

Health: 2

Flammability: 0

Reactivity: 3

Other: Oxidizer

Contact: 3

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