For Emergency Assistance
Involving Chemicals Call
CHEMTREC (800) 424-9300

WHMIS (Classification)
WHMIS CLASS C: Oxidizing material.

**Section I. Chemical Product Identification**

Distributed by: Vopak Canada Ltd.
Van Horne Way
Richmond, BC
V6X 1W5

Product Name Calcium Nitrate                     Code     LA2837
CAS#     010124375
Synonym      Not available.
Chemical Name Calcium nitrate                     DSL      On the DSL list.
Chemical Family Not available.
Chemical Formula CAN2O6
Material Uses Not available.

**Section II. Composition and Information on Ingredients**

Exposure Limits

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>TLV/PEL</th>
<th>LC50/LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate</td>
<td>010124375</td>
<td>100</td>
<td>Not available.</td>
<td>ORAL (LD50): Acute: 3900 mg/kg [Rat].</td>
</tr>
</tbody>
</table>

**Section III. Hazards Identification**

Potential Acute Health Effects
Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of ingestion. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death.
Potential CARCINOGENIC EFFECTS: Not available.
Chronic Health MUTAGENIC EFFECTS: Not available.
Effects TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated exposure to an highly toxic material may produce
general deterioration of health by an accumulation in one
or many human organs.

**Section IV. First Aid Measures**

Eye Contact Check for and remove any contact lenses. IMMEDIATELY
flush eyes with running water for at least 15 minutes,
keeping eyelids open. COLD water may be used. DO NOT
use an eye ointment. Seek medical attention.

Skin Contact After contact with skin, wash immediately with plenty of
water. Gently and thoroughly wash the contaminated skin
with running water and non-abrasive soap. Be
particularly careful to clean folds, crevices, creases
and groin. COLD water may be used. Cover the irritated
skin with an emollient. If irritation persists, seek
medical attention. Wash contaminated clothing before
reusing.

Hazardous Skin Wash with a disinfectant soap and cover the contaminated
Contact skin with an anti-bacterial cream. Seek medical
attention.

Inhalation Allow the victim to rest in a well-ventilated area. Seek
immediate medical attention.

Hazardous Evacuate the victim to a safe area as soon as possible.
Inhalation Loosen tight clothing such as a collar, tie, belt or
waistband. If breathing is difficult, administer oxygen.
If the victim is not breathing, perform mouth-to-mouth
resuscitation. WARNING: It may be hazardous to the
person providing aid to give mouth-to-mouth resuscitation
when the inhaled material is toxic, infectious or
corrosive. Seek immediate medical attention.

Ingestion Have conscious person drink several glasses of water or
milk. INDUCE VOMITING by sticking finger in throat.
Examine the lips and mouth to ascertain whether the
tissues are damaged, a possible indication that the toxic
material was ingested; the absence of such signs,
however, is not conclusive. Loosen tight clothing such
as a collar, tie, belt or waistband. If the victim is
not breathing, perform mouth-to-mouth resuscitation.
Seek immediate medical attention.

Hazardous No additional information.
Ingestion

**Section V. Fire and Explosion Data**

The Product is: May be combustible at high temperature.

Auto-Ignition Not available.
Temperature
Flash Points     Not available.
Flammable Limits     Not available.
Products of Combustion     Not available.

Fire Hazards in Presence of Various Substances
Flammable in presence of organic materials.

Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Fire Fighting Media
Oxidizing material.
DO NOT use water jet. Use flooding quantities of water. Avoid contact with organic materials.

Special Remarks on Fire Hazards
Strong oxidizer. Contact with other material may cause fire.

Special Remarks on Explosion Hazards
No additional remark.

**Section VI. Accidental Release Measures**

Small Spill
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill
Oxidizing material.
Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...).
Keep substance damp using water spray. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.

**Section VII. Handling and Storage**

Precautions
Keep locked up. Keep away from heat. Keep away from sources of ignition. Keep away from combustible materials. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles
such as oxidizing agents, combustible materials, metals.

Storage
Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool and well-ventilated area. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

**Section VIII. Exposure Controls/Personal Protection**

Engineering Controls
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection
Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits
Not available.

**Section IX. Physical and Chemical Properties**

Physical State and Appearance
Solid. (Crystals solid.) Odor Odorless. Taste Not available.

Molecular Weight
164.1 g/mole Color Colorless.

pH (1% soln/water)
6 [Acidic.]

Boiling Point
Not available.

Melting Point
560.C (1040.F) Not available.

Critical Temperature
Not available.

Specific Gravity
1.82 (Water = 1)

Vapor Pressure
Not available.

Vapor Density
Not available.

Vollatility
Not available.

Odor Threshold
Not available.

Evaporation
Not available.
rate
Viscosity Not available.
Water/Oil Dist. Not available.
Coeff.
Ionicity (in Water) Not available.
Dispersion Properties See solubility in water, methanol, acetone.
Solubility Easily soluble in cold water, hot water. Partially soluble in methanol, acetone.

**Section X. Stability and Reactivity Data**

Stability The product is stable.
Instability Not available.
Temperature
Conditions of Instability No additional remark.
Incompatibility with various substances Reactive with combustible materials, metals.
Corrosivity No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
Special Remarks on Reactivity Hazardous Decomposition Products: Will liberate toxic fumes of oxides of nitrogen.
Special Remarks on Corrosivity No additional remark.
Hazardous Polymerization No.

**Section XI. Toxicological Information**

Routes of Entry Absorbed through skin. Eye contact. Inhalation.
Toxicity to Animals Acute oral toxicity (LD50): 3900 mg/kg [Rat].
Chronic Effects on Humans CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
**Section XII. Ecological Information**

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation No additional remark.

**Section XIII. Disposal Considerations**

Waste Disposal Recycle, if possible. Consult your local or regional authorities.

**Section XIV. Transport Information**

TDG Classification TDG CLASS 5.1: Oxidizing substance.

Shipping name Calcium Nitrate

PIN UN1454
Section XV. Other Regulatory Information

Other

Section XVI. Other Information

References Not available.
Other Special No additional remark.
Considerations
Verified by Hardev Bendick.
Validated by Hardev Bendick on 12/1/98.

Information EH&S Department
Contact Vancouver, B.C.
(604) 273-1441

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