# SAFETY DATA SHEET

**Preparation Date:** 4/7/2014  
**Revision Date:** 10/22/2018  
**Revision Number:** G2

## 1. IDENTIFICATION

### Product identifier

**Product code:** C1135  
**Product Name:** CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS

### Other means of identification

**Synonyms:** Calcium dinitrate tetrahydrate  
Nitric acid, calcium salt, tetrahydrate  
**CAS #:** 13477-34-4  
**RTECS #:** EW3000000  
**Cl#:** Not available

### Recommended use of the chemical and restrictions on use

**Recommended use:** Fertilizer compositions. Manufacture of matches. In pyrotechnics.  
**Uses advised against:** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** [https://www.spectrumchemical.com](https://www.spectrumchemical.com)  
**Emergency telephone number:** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Hazard statement</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>2B</td>
</tr>
<tr>
<td>Oxidizing solids</td>
<td>3</td>
</tr>
</tbody>
</table>

### Label elements

#### Warning

**Hazard statements**  
Causes eye irritation  
May intensify fire; oxidizer

**Product code:** C1135  
**Product name:** CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Causes mild skin irritation
May be harmful if swallowed

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles
Wear protective gloves/protective clothing/eye protection/face protection

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO2 or Halon may provide limited control.
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

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

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: Mild eye irritation

Product code: C1135  Product name: CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
Mild skin irritation
May cause methemoglobinemia and cyanosis
May cause metabolic acidosis
Dyspnea (Difficulty breathing and shortness of breath)

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**

Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.

**Unsuitable Extinguishing Media:**

Dry chemical. Foam. Halons.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**

No information available.

**Specific hazards:**

Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.

**Special Protective Actions for Firefighters**

**Specific Methods:**

For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. DO NOT use combustible materials such as sawdust.

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from combustible material. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials:
Reducing agents
Combustible materials
Organic materials
Powdered metals
Ammonia
Hydrazine

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Product code: C1135
Product name: CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. 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.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

- **Eye protection:** Goggles
- **Skin and body protection:** Chemical resistant apron, Long sleeved clothing, Gloves
- **Respiratory protection:** Wear respirator with dust filter.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
<th>Formula:</th>
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</thead>
<tbody>
<tr>
<td>Solid</td>
<td>Crystals. Crystalline. Granular.</td>
<td>White.</td>
<td>Ca(NO3)2.4H2O</td>
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</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Flashpoint (°C/°F):</th>
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<tbody>
<tr>
<td>Odorless.</td>
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<td>No information available.</td>
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<table>
<thead>
<tr>
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<th>Flammability:</th>
<th>Lower Explosion Limit (%):</th>
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<table>
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<th>Autoignition Temperature (°C/°F):</th>
<th>Lower Explosion Limit (%):</th>
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<td>No information available</td>
<td>No information available</td>
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<table>
<thead>
<tr>
<th>Upper Explosion Limit (%):</th>
<th>Melting point/range(°C/°F):</th>
<th>Decomposition temperature(°C/°F):</th>
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<td>42-45 °C/107.6-113 °F</td>
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<table>
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<tr>
<th>Boiling point/range(°C/°F):</th>
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<table>
<thead>
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<th>Product code:</th>
<th>Product name:</th>
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<tr>
<td>C1135</td>
<td>CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Reacts with reducing agents
Reactive with metals
Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire
It may be a fire risk in contact with organic materials

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Conditions to avoid: Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Exposure to moist air. Incompatible materials.
Incompatible Materials:
- Reducing agents
- Combustible materials
- Organic materials
- Powdered metals
- Ammonia
- Hydrazine

Hazardous decomposition products:
- Nitrogen oxides (NOx)
- Calcium oxides

Other Information
Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Toxicity

Product code: C1135
Product name: CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
Component Information

Calcium Nitrate, Tetrahydrate

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>13477-34-4</th>
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<tbody>
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<td>LD50/oral/rat</td>
<td>= 3900 mg/kg Oral LD50 Rat</td>
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<tr>
<td>LD50/oral/mouse</td>
<td>= No information available</td>
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<tr>
<td>LD50/dermal/rabbit</td>
<td>= No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>= No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
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</tr>
<tr>
<td>LC50/inhalation/mouse</td>
<td>= No information available</td>
</tr>
<tr>
<td>Other LD50 or LC50 information</td>
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</tr>
</tbody>
</table>

Product Information

| LD50/oral/rat | = VALUE- Acute Tox Oral = 3900 mg/kg |
| LD50/oral/mouse | = Value - Acute Tox Oral = No information available |
| LD50/dermal/rabbit | VALUE-Acute Tox Dermal = No information available |
| LD50/dermal/rat | VALUE -Acute Tox Dermal = No information available |
| LC50/inhalation/rat | VALUE-Vapor = No information available |
| | VALUE-Gas = No information available |
| | VALUE-Dust/Mist = No information available |
| LC50/Inhalation/mouse | VALUE-Vapor = No information available |
| | VALUE - Gas = No information available |
| | VALUE - Dust/Mist = No information available |

Symptoms

Skin Contact: Causes skin irritation. Mild skin irritation.

Eye Contact: Causes eye irritation. Mild eye irritation.

Inhalation: May cause irritation of respiratory tract. Breathing Calcium Nitrate may irritate the nose and throat causing sneezing and coughing. High levels can interfere with the ability of the blood to carry oxygen causing headache, dizziness and a blue color to the skin and lips (cyanosis), and other symptoms of methemoglobinemia (see other symptoms under ingestion). Higher levels can cause trouble breathing, circulatory collapse and even death.

Ingestion: Ingestion of large quantities may cause violent gastroenteritis with nausea, vomiting, severe abdominal pain. It may also cause colic and diarrhea. Nitrates themselves are not toxic in the amounts we normally encounter. The acute toxicity of nitrates is a result of their conversion into nitrites within the body. The nitrite acts in the blood to oxidize hemoglobin to methemoglobin which does not perform as an oxygen carrier to tissues causing Methemoglobinemia. Symptoms may include vertigo, muscular weakness, syncope, irregular pulse, convulsions, anoxia, coma, fall in blood pressure, roaring sound in the ears, a persistant...
throbbing headache, generalized tingling sensation, heart palpitations, visual disturbances caused by increased intraocular tension and intracranial pressure, flushed and perspiring skin, which is later cold and cyanotic. Circulatory collapse and death may occur. Metabolic acidosis may also develop in cases of severe methemoglobinemia.

Aspiration hazard

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Prolonged exposure to small amounts may produce anemia, methemoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis.

Sensitization:

No information available.

Mutagenic Effects:

No information available

Carcinogenic effects:

Probably carcinogenic to humans. IARC group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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</thead>
<tbody>
<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.
Target Organs: Blood. Methemoglobin formation.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

Product code: C1135 Product name: CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- UN-No: UN1454
- Proper Shipping Name: Calcium nitrate
- Hazard Class: 5.1
- Subsidiary Class: No information available
- Packing group: III
- Emergency Response Guide Number: 140

TDG (Canada)
- UN-No: UN1454
- Proper Shipping Name: Calcium nitrate
- Hazard Class: 5.1
- Subsidiary Risk: No information available
- Packing Group: III
- Marine Pollutant: No Information available
- Description: UN1454, Calcium nitrate, 5.1, III

ADR
- UN-No: UN1454
- Proper Shipping Name: Calcium nitrate
- Hazard Class: 5.1
- Packing Group: III
- Subsidiary Risk: No information available
- Special Provisions: 208
- Description: UN1454, Calcium nitrate, 5.1, III

IMO / IMDG
- UN-No: UN1454
- Proper Shipping Name: Calcium nitrate
- Hazard Class: 5.1
- Subsidiary Risk: No information available
- Packing Group: III

Product code: C1135
Product name: CALCIUM NITRATE,
TETRAHYDRATE, CRYSTAL,
REAGENT, ACS
Marine Pollutant: No information available
EMS: F-A
Special Provisions: 208, 967
Description: UN1454, Calcium nitrate, 5.1, III

RID
UN-No: UN1454
Proper Shipping Name: Calcium nitrate
Hazard Class: 5.1
Subsidiary Risk: 5.1
Packing Group: III
Special Provisions: 208
Description: UN1454, Calcium nitrate, 5.1, III

ICAO
UN-No: UN1454
Proper Shipping Name: Calcium nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN1454, Calcium nitrate, 5.1, III

IATA
UN-No: UN1454
Proper Shipping Name: Calcium nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 5L
Special Provisions: No information available
Description: UN1454, Calcium nitrate, 5.1, III

15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (1)-188</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
<td>Not listed. It is not listed on the TSCA 8(b) Inventory since it is a hydrate. However the anhydrous form (CAS no. 10124-37-5) is listed as ACTIVE on the TSCA 8(b) Inventory</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Not present</td>
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</table>

U.S. Regulations

Calcium Nitrate, Tetrahydrate
New Jersey RTK Hazardous Substance List: sn 3722 (nitrate compounds)
New Jersey (EHS) List: SN 3722 500 lb TPQ(water dissociable, Category code N511)(Nitrate compounds)

Product code: C1135 Product name: CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS

**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
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<td>Not Listed</td>
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**CERCLA/SARA**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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</thead>
<tbody>
<tr>
<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Nitrate compounds, water dissociable</td>
<td>1%</td>
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**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<td>Not Applicable</td>
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</table>

**Canada**

**WHIMIS 2015 - GHS Classifications**

WHIMIS 2015 Hazard Classification: The WHIMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation**

This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

**Inventory**

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>Canada (NDSL)</th>
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<table>
<thead>
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<th>Components</th>
<th>CAS-No.</th>
<th>CEPA Schedule I - Toxic Substances</th>
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<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
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<td>Calcium Nitrate, Tetrahydrate</td>
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**EU Classification**

**EU GHS - SV - CLP 1272/2008**

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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<td>Calcium Nitrate, Tetrahydrate</td>
<td>13477-34-4</td>
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</table>

**EU - CLP (1272/2008)**

**Product code:** C1135  
**Product name:** CALCIUM NITRATE, TETRAHYDRATE, CRYSTAL, REAGENT, ACS
R-phrase(s)
R 8 - Contact with combustible material may cause fire.

S-phrase(s)
S17 - Keep away from combustible material.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>13477-34-4</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
O - Oxidising.

O

16. OTHER INFORMATION

Preparation Date: 4/7/2014
Revision Date: 10/22/2018
Prepared by: Sonia Owen

Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet