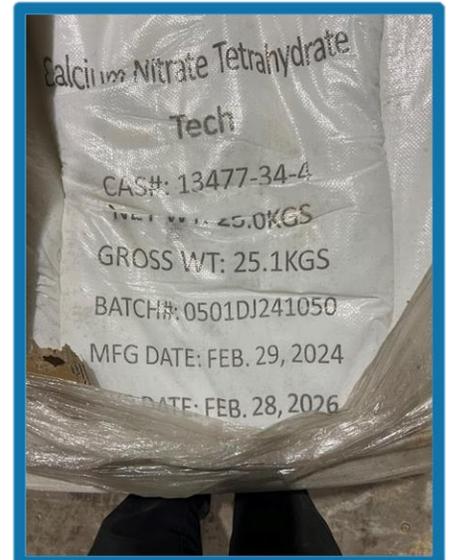
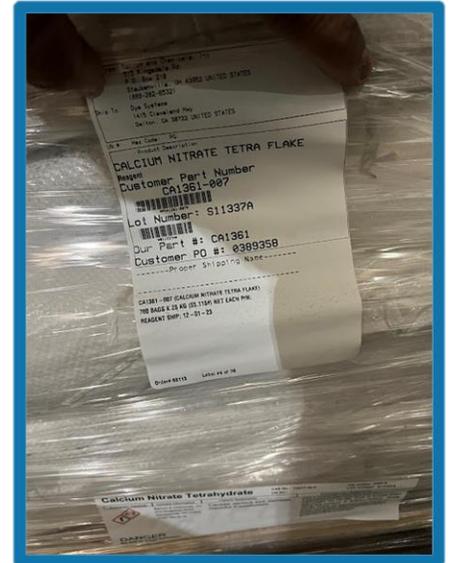


Offer Sheet

Product	Calcium Nitrate
Quantity	10 truckloads (25 kg bags, 20 pallets)
Net weight	~440,120 lbs.
Manufacture date	
Availability	One time
Location	Delivered
Date	3/20/26
COA & SDS	Attached below



Calcium nitrate ($\text{Ca}(\text{NO}_3)_2$) is a highly soluble **inorganic salt** used primarily as a **nitrogen fertilizer and process chemical**. It delivers both **nitrate nitrogen (immediately available)** and **calcium (structural nutrient / conditioning agent)**.

1. Agriculture (Largest Market)

Fertilizer (primary use)

Calcium nitrate is widely used as a **premium nitrogen fertilizer**.

Why it's valued:

- **Nitrate nitrogen** → immediately plant-available
- **Calcium** → improves cell wall strength and crop quality
- Fully **water-soluble** → ideal for fertigation

Applications:

- fruits and vegetables (tomatoes, peppers, lettuce)
 - orchards (apples, citrus)
 - greenhouse / hydroponics
-

2. Wastewater Treatment

Odor control / H_2S mitigation

Calcium nitrate is used to control **hydrogen sulfide (H_2S)** in sewer systems.

Mechanism:

- Provides nitrate oxygen source for bacteria
- Suppresses sulfate-reducing bacteria (SRB)
- Prevents H_2S formation

Applications:

- municipal sewer systems
- lift stations
- force mains

This is a **large and growing industrial use**

3. Concrete and Construction

Concrete accelerator / set modifier

Used in **cold weather concrete** and precast applications.

Functions:

- accelerates cement hydration
- improves early strength
- reduces setting time

Applications:

- precast concrete
 - cold-weather pours
 - repair mortars
-

4. Explosives / Mining

Oxidizer component

Used in **explosive formulations**, often alongside ammonium nitrate.

Applications:

- mining explosives
 - quarry blasting
-

5. Refrigeration (Specialty)

Cooling systems / brine solutions

Calcium nitrate solutions can be used as:

- **heat transfer fluids**
 - **cooling brines**
-

6. Chemical Manufacturing

Intermediate / oxidizing agent

Used in:

- specialty chemical synthesis
 - latex coagulation
 - catalyst systems
-

7. Dust Control & Stabilization

Road treatment

Used for:

- dust suppression
 - soil stabilization
-

8. Oil & Gas (Niche but valuable)

Sulfide control

Similar to wastewater use:

- injected into oilfield systems
- reduces H_2S formation

Tetrahydrate
Tech
13477-34-4
NET WT: 25.0KGS
GROSS WT: 25.1KGS
BATCH#: 0501DJ241021
EXP. DATE: JAN. 17, 2024
DATE: JAN. 16, 2026
MADE IN CHINA



Tetrahydrate
CAS#: 13477-34-4
NET WT: 25.1KGS
BATCH#: 0501DJ241124
DATE: APR. 05, 2024

NET WT: 25.0KGS
GROSS WT: 25.1KGS
BATCH#: 0501DJ241124





Certificate of Analysis

Certificate Date : 05/13/25

Wegochem International LLC
277 NORTHERN BLVD
GREAT NECK, NY, 11021, US

Product Information	
Item	Calcium Nitrate Tetrahydrate, Tech, 25 KG Bag (CALNITET-001)
CAS Number	13477-34-4
Formula: $Ca(NO_3)_2 \cdot 4H_2O$	Chemical Name: Calcium Nitrate Tetrahydrate EINECS #: 233-332-1

Lot Number: 0501DJ241021		
Characteristics	Specifications	Results
Purity	98.0000-100.0000 %	99.12 %
Chloride (%)	0.0000-0.0050 %	.002 %
Heavy Metal as Pb (%)	0.00000-0.00100 %	.0003 %
Sulphate	0.0000-0.0100 %	.006 %
Manufacture Date	-	01/17/2024
Expiration Date	-	01/16/2026

The information set forth herein is offered as a service to our customers and is not intended to relieve a customer from its responsibility to determine the suitability of the information or of the materials described herein for customer's purposes, to investigate other sources of information, to comply with all laws and procedures regarding safe use of these materials and to use these materials in a safe manner. No warranty is made of the merchantability or fitness of any product, and nothing herein waves any of the Seller's conditions of sale.



Certificate of Analysis

Certificate Date : 05/13/25

Wegochem International LLC
277 NORTHERN BLVD
GREAT NECK, NY, 11021, US

Product Information	
Item	Calcium Nitrate Tetrahydrate, Tech, 25 KG Bag (CALNITET-001)
CAS Number	13477-34-4
Formula: $Ca(NO_3)_2 \cdot 4H_2O$	Chemical Name: Calcium Nitrate Tetrahydrate EINECS #: 233-332-1

Lot Number: 0501DJ241050		
Characteristics	Specifications	Results
Purity	98.0000-100.0000 %	99.12 %
Chloride (%)	0.0000-0.0050 %	.002 %
Heavy Metal as Pb (%)	0.00000-0.00100 %	.0003 %
Sulphate	0.0000-0.0100 %	.006 %
Expiration Date	-	02/28/2026
Manufacture Date	-	02/29/2024

The information set forth herein is offered as a service to our customers and is not intended to relieve a customer from its responsibility to determine the suitability of the information or of the materials described herein for customer's purposes, to investigate other sources of information, to comply with all laws and procedures regarding safe use of these materials and to use these materials in a safe manner. No warranty is made of the merchantability or fitness of any product, and nothing herein waves any of the Seller's conditions of sale.



Certificate of Analysis

Certificate Date : 05/13/25

Wegochem International LLC
277 NORTHERN BLVD
GREAT NECK, NY, 11021, US

Product Information	
Item	Calcium Nitrate Tetrahydrate, Tech, 25 KG Bag (CALNITET-001)
CAS Number	13477-34-4
Formula: $Ca(NO_3)_2 \cdot 4H_2O$	Chemical Name: Calcium Nitrate Tetrahydrate EINECS #: 233-332-1

Lot Number: 0501DJ241124		
Characteristics	Specifications	Results
Purity	98.0000-100.0000 %	99.15 %
Chloride (%)	0.0000-0.0050 %	.002 %
Heavy Metal as Pb (%)	0.00000-0.00100 %	.0003 %
Sulphate	0.0000-0.0100 %	.006 %
Expiration Date	-	04/04/2026
Manufacture Date	-	04/05/2024

The information set forth herein is offered as a service to our customers and is not intended to relieve a customer from its responsibility to determine the suitability of the information or of the materials described herein for customer's purposes, to investigate other sources of information, to comply with all laws and procedures regarding safe use of these materials and to use these materials in a safe manner. No warranty is made of the merchantability or fitness of any product, and nothing herein waves any of the Seller's conditions of sale.

SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of:
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 06/07/2023

Revision date 06/08/2023

Revision Number 1

1. Identification

Product identifier

Product Name Calcium Nitrate Tetrahydrate

Other means of identification

Synonyms Nitric acid, calcium salt, tetrahydrate; Norwegian saltpeter tetrahydrate; Calcium dinitrate tetrahydrate; Lime nitrate tetrahydrate; Nitrocalcite tetrahydrate; Lime saltpeter tetrahydrate

CAS No 13477-34-4

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals Chemical synthesis. Industrial use

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

Wego Chemical Group LP
239 Great Neck Road
Great Neck NY 11021
+1 (516) 487 3510
regulatory@wegochem.com

Emergency telephone number

Emergency Telephone (ChemTel) +1-800 255-3924; INTL +1- 813 248-0585

2. Hazard(s) identification

Classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Danger

Hazard statements

Harmful if swallowed. Causes serious eye damage.



Appearance Crystalline

Physical state Solid

Odor No information available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye protection/ face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients

Substance

Synonyms

Nitric acid, calcium salt, tetrahydrate; Norwegian saltpeter tetrahydrate; Calcium dinitrate tetrahydrate; Lime nitrate tetrahydrate; Nitrocalcite tetrahydrate; Lime saltpeter tetrahydrate

Formula

CaN2O6 · 4H2O

Chemical name	CAS No	Weight-%
Calcium nitrate tetrahydrate	13477-34-4	>98

4. First-aid measures

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact

Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media CO₂ (except for Cyanides), dry chemical, dry sand, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Hazardous combustion products Thermal decomposition can lead to release of irritating and toxic gases and vapors. Calcium oxides. Nitrogen oxides (NO_x).

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance Crystalline
Color white
Odor No information available
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	5 - 7	None known
Melting point / freezing point	44 °C / 111.2 °F	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive	No data available	

limits		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	No information available
VOC content	No information available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Combustible material. Avoid generation of dust.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.
Hazardous decomposition products	None known based on information supplied.

11. Toxicological information**Information on likely routes of exposure****Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Redness. Burning. May cause blindness.
-----------------	--

Acute toxicity**Numerical measures of toxicity****Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium nitrate tetrahydrate 13477-34-4	= 300 - 2000 mg/kg (Rat)	-	-

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

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes burns. Causes serious eye damage.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information**Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Calcium nitrate tetrahydrate 13477-34-4	-	LC50: =10000mg/L (96h, Lepomis macrochirus)	-	-

Persistence and degradability	No information available.
--------------------------------------	---------------------------

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT Not regulated

15. Regulatory information

International Inventories

TSCA Complies.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Calcium nitrate tetrahydrate	13477-34-4	Present	Active

DSL/NDSL Not Listed.
EINECS/ELINCS Complies.
ENCS Not Listed.
IECSC Complies.
KECL Not Listed.
PICCS Complies.
AIIC Complies.
NZIoC Complies.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Calcium nitrate tetrahydrate - 13477-34-4	1.0

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Calcium nitrate tetrahydrate 13477-34-4	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 0	Special hazards -
<u>HMIS</u>	Health hazards 3	Flammability 0	Physical hazards 0	Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Issuing Date 06/07/2023
Revision date 06/08/2023
Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 1739

Review date: August 30, 2023

1 Identification of substance and company

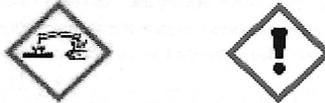
Product name: Calcium Nitrate
Product code: 12120, C2781
Relevant use and restrictions on use: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com

Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Emergency Overview:

Pictogram(s):



Signal word(s):

Danger

Hazard statements:

H302 Harmful if swallowed
H318 Causes serious eye damage

Precautionary statements:

P260 Do not breathe dust or mist
P264 Wash 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
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified:

None

GHS Classification:

Acute toxicity, oral - 4
Serious eye damage - 1

HMIS ratings (scale 0-4):

Health hazard: 2
Flammability: 0
Physical hazard: 0

3 Composition/Information on ingredients

Chemical name: Calcium nitrate, hydrate
Designation:
CAS number: 13477-34-4
EC number: 233-332-1
Formula: $\text{Ca}(\text{NO}_3)_2 \cdot x\text{H}_2\text{O}$
Synonyms: Lime nitrate, nitrocalcite, lime saltpeter

4 First aid measures

After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

After eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

After ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Information for doctor: Show this safety data sheet to the doctor in attendance

Symptoms/effects; acute and delayed: Eye contact may produce pain, watering, redness.
Ingestion symptoms may include stomach pains

Immediate medical attention and special treatment needed: See above

5 Fire-fighting measures

Suitable and unsuitable extinguishing agents:	Use flooding quantities of water for extinction Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand
Special hazards caused by the material, its products of combustion or resulting gases:	Oxides of calcium and nitrogen (NO _x)
Special fire fighting procedures:	Wear self-contained breathing apparatus and fully protective fire fighting equipment/clothing
Unusual fire and explosion hazard:	No available data

6 Accidental release measures

Person-related safety precautions:	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
Measures for environmental protection:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Measures for cleaning/collecting:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for proper disposal.
Additional information:	See Section 7 for information on safe handling See Section 8 for information on personal protective equipment See Section 13 for information on disposal See Section 15 for regulatory information

7 Handling and storage

Information for safe handling:	Avoid contact with skin and eyes. Avoid dust formation. Provide appropriate exhaust ventilation.
Information about protection against explosions and fires:	No data available
Storage requirements to be met by storerooms and containers:	Keep container tightly closed in a dry and well-ventilated place
Incompatibility (avoid contact with):	Strong Acids. Incompatible with organic materials and strong reducing agents. atmosphere forming the carbonate and the hydroxide respectively

8 Exposure controls/personal protection

Ventilation requirements:	Local exhaust, chemical fume hood
Components with exposure limits that require monitoring:	No data available
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
Personal protective equipment:	
Respiratory protection:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary respirator.
(Use only NIOSH or CEN approved Equipment)	
Hand protection:	Handle with gloves. Gloves MUST be inspected prior to use. Use proper glove removal technique.
Eye protection:	Face shield and safety glasses.
Skin protection:	Completely covering work attire with full length apron
Additional protective equipment:	Sufficient to prevent contact. Emergency eyewash and safety shower
Precautionary labeling:	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, gas Keep away from heat, sparks, and open flames Empty container may contain hazardous residues

9 Physical and chemical properties

Physical state:	Prills
Color:	White
Odor:	Odorless
Odor threshold:	Not determined
Molecular Weight (Calculated):	164.09 (anhydrous)
pH	5 - 7
Melting point/freezing point/range:	400 C
Boiling point/range:	Not determined
Sublimation temperature/start:	Not determined
Decomposition temperature:	Not determined
Flammability (solid, gas):	Non-flammable
Flash point:	Not determined
Autoignition temperature:	Not determined
Danger of explosion:	Not determined
Flammable limits:	
Lower:	Not determined
Upper:	Not determined

Evaporation Rate:	Not determined
Vapor pressure (mm Hg):	Not determined
Vapor density:	Not determined
Specific gravity:	1.82
Bulk density:	Not determined
Solubility in/Miscibility with water:	Soluble
Partition coefficient n-octanol/water:	Not determined
Viscosity:	Not determined
Other information:	No additional information

10 Stability and reactivity

Reactivity:	Not determined
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	Not determined
Conditions to be avoided:	Avoid contamination by any source including metals, dust and organic materials
Materials to be avoided:	Alkalis, combustible materials reducing materials organic materials, acids
Dangerous reactions:	Not determined
Hazardous decomposition products:	Oxides of calcium and nitrogen (NOx)

11 Toxicological information

LD/LC50 values that are relevant for classification:	oral-rat LD ₅₀ : 500 mg/Kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	eye-rabbit severe: 24-72H
Primary irritant or corrosive effect:	
on the skin:	Severe
on the eye:	Severe
Sensitization:	No data available
Potential health effects:	
Inhalation:	May cause irritation
Ingestion:	May cause gastrointestinal irritation
Skin:	Non-irritating to the skin
Eyes:	Causes serious eye damage
Signs and symptoms of exposure:	Causes serious eye damage Exposure to decomposition products may cause a health hazard Harmful if swallowed. May cause burns to mouth, throat and stomach
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC/ ACGIH/ NTP/ OSHA
Additional information:	No data available

12 Ecotoxicological information

Toxicity:	
Toxicity to fish:	Fish LC50: 447 mg/L:48H
Toxicity to daphnia and other aquatic invertebrates:	Daphnia magna EC50: > 100 mg/L:48H
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	Readily biodegradable in plants and soils
Bioaccumulative potential:	
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13 Disposal considerations

Recommendation:	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
Unclean packagings recommendation:	Disposal must be made according to official regulations

14 Transport information

Land transport DOT	
Proper shipping name:	Chemicals not hazardous
Technical name:	Calcium nitrate, hydrate
Air transport ICAO-TI and IATA-DGR:	
Proper shipping name:	Chemicals not hazardous
Technical name:	Calcium nitrate, hydrate
UPS Ground / FedEx Ground	

Proper shipping name:
Technical name:

Chemicals not hazardous
Calcium nitrate, hydrate

UPS Air

Proper shipping name:
Technical name:

Chemicals not hazardous
Calcium nitrate, hydrate

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs:
SARA Section 311 / 312 hazards:
SARA Section 313 components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
Acute Health Hazard
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other reproductive harm.
Product is listed on TSCA Inventory

California Proposition 65 components:

TSCA:

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.