

**Section 1 – Identification**

Product	Calcium Nitrate Tetrahydrate 66% Solution CT-66	Recommended Use:
Product Code:	159	Utilized in industrial applications such as waste water treatment (to prevent odor and control sulfides) and concrete admixtures (to accerlerate setting and improve durability)
Manufacturer	TradeMark Nitrogen Corp.	
Address	1216 Old Hopewell Road Tampa, FL 33619 - USA	
Phone	(813) 626-1181	
24 Hour	Chemtrec	
Emergency	(800) 424-9300	
Contact		

**Section 2 – Hazard Identification**



GHS07



GHS05

**Signal Word:     WARNING**

**Hazard Statements:**

- H302     Harmful if swallowed
- H320     Causes eye irritation
- H315     Causes skin irritation
- H335     May cause respiratory irritation

**Precautionary Statements:**

- P101:     If medical advice is needed, have product container or label at hand.
- P102:     Keep out of reach of children.
- P103     Read label before use
- P260     Do not breathe fume, mist, spray, vapours
- P264     Wash hands thoroughly after handling
- P270     Do not eat, drink or smoke when using this product
- P271     Use only outdoors or in a well-ventilated area
- P280     Wear eye protection, protective clothing, protective gloves
- P331     Do NOT induce vomiting
- P301+P330   IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell
- P302+P352   IF ON SKIN: Wash with plenty of water
- P304+P340   IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
- P332+P313   If skin irritation occurs: Get medical advice / attention
- P337+P313   If eye irritation persists: Get medical advice / attention
- P362     Take off contaminated clothing
- P501     Dispose of contents / container according to local, regional, national, and international regulations

**Section 3 – Composition**

Ingredients	Component	CAS. No.	Percent by Weight
	Calcium Nitrate		
	Ca(NO <sub>3</sub> ) <sub>2</sub> • 4H <sub>2</sub> O	13477-34-4	66.00%
	Water (H <sub>2</sub> O)	7732-18-5	Balance

#### Section 4 – First Aid Measures

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin immediately with soap and water for at least 15 minutes. Seek medical attention if irritation persists.
Eye Contact	If in eyes: Rinse cautiously with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present and easy to do. Seek medical attention at once.
Ingestion	If swallowed: Immediately contact a physician or poison control center. Do NOT induce vomiting, unless advised by a medical professional. Drink one to two glasses of water. Never give anything by mouth to an unconscious person.
Acute Health Hazards	Moderate irritant of eyes, skin and contaminated tissue. Prolonged contact can result in tissue damage. Ingestion may be harmful or fatal. High levels of nitrates may reduce the blood's ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia).
Chronic Health Hazards	Methemoglobinemia is the primary health effect. Prolonged skin contact may result in dermatitis (inflammation and redness of skin).

#### Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	Calcium Nitrate Solution is not combustible or reactive, but can contribute to the intensity of the fire. Use an extinguishing agent suitable for the surrounding fire.  Extinguishing Media: Dry chemical, foam, carbon dioxide or an ABC class extinguishers are acceptable.
Chemical Hazards From Fire	In a fire or if heated, a pressure increase will occur and the container may burst. If product evaporates, residual solid may sustain combustion. In a fire this material may decompose and produce oxides of nitrogen, metal oxide(s) or ammonia.
Special Fire Fighting Procedures	Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.
NFPA Rating	Health - 1 (Slight) Fire - 0 (Least) Reactivity - 0 (Least)
Other	Do not allow run-off from fire fighting to enter drains or bodies of water.



#### Section 6 – Accidental Release Measure

Personal Precautions	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.
Protective Equipment	PPE should include gloves, goggles, face shield and impervious clothing.
Containment	Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.
In Case of Spill	Absorb product with inert absorbent. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to sewers or water ways. Follow all local, state, federal and provincial laws and regulations for disposal.

#### Section 7 – Safe Handling & Storage

Precautions for Safe Handling & Storage	Open container carefully. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. Store in a well ventilated cool dry place. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain residue. Do not store this material in open or unlabeled containers. Store locked up.
Incompatibility	Avoid contact with combustible materials, acids and alkalis. Residue would be incompatible with combustible materials.

### Section 8 – Exposure Controls / Personal Protection

Exposure Limits	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health
	Calcium Nitrate Ca(NO <sub>3</sub> ) <sub>2</sub>	Not Established	Not Established	Not Established	Not Established
	Water (H <sub>2</sub> O)	Not Established	Not Established	Not Established	Not Established

Engineering Controls: Local or general exhaust. Eyewash facilities should be available.

Personal Protective Equipment:

- Eyes: Chemical safety goggles or safety glasses
- Hands: Chemical resistant gloves.
- Respiratory: None required under normal conditions. NIOSH approved respirator if there is a mist of the product.
- Protective Clothing: Impervious chemical clothing



Gloves



Goggles

or



Safety Glasses

### Section 9 – Physical & Chemical Properties

Appearance and Odor	Clear, light-yellow to colorless liquid with no significant odor.	Specific Gravity	1.458
Boiling Point	No Data Available	Solubility in Water	Miscible
Freezing Point	No Data Available	Evaporative Rate	No Data Available
Vapor Pressure	No Data Available	pH	5.0 - 7.0
Gallons per Ton	165 gal / ton	Salt-Out Temperature	<18°F (-7.8°C)
Weight per Gallon	12.16 lbs / gal	Auto Ignition Temp	Not Flammable
Flash Point	No Data Available	LEL	No Data Available
Flammability Limits	No Data Available	UEL	No Data Available

### Section 10 – Stability & Reactivity

Reactivity	Product is not reactive under normal conditions.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Avoid contamination by any source including metals, dust and organic materials.
Incompatible Materials	Avoid contact with combustible materials, acids and alkalis. Residue would be incompatible with combustible materials.
Hazardous Decomposition Products	Under normal conditions - hazardous decomposition products should not occur.

## Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or skin/eye absorption	
Symptoms and Signs of Exposure	Eyes	Mild irritant.
	Skin	Mild irritant.
	Inhalation	May irritate respiratory tract causing sneezing, cough and sore throat.
	Ingestion	If ingested this product may cause burns to the mouth, throat, esophagus and possibly the digestive tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness.
Acute Health Hazards	This product may be harmful or fatal if swallowed. This product is irritating to the eyes, respiratory system and skin. The nitrate component of this product may cause Methemoglobinemia.	
Long Term Effects	Methemoglobinemia is the primary long-term health effect. Repeated skin contact with this material may cause dermatitis.	

Toxicity No limits have been set for this material.

Component Analysis:

Calcium Nitrate	LD <sub>50</sub> Oral	500 mg / kg
Ca(NO <sub>3</sub> ) <sub>2</sub>	Rat	

Carcinogen The International Agency for Research on Cancer has not classified calcium nitrate for its carcinogenic potential (IARC 1987).

## Section 12 – Ecological Information

General Product Information	In high concentrations, this product may be harmful to either terrestrial and aquatic plant life. Harmful to fish and other aquatic organisms.	
Persistence and Degradability	Readily biodegradable in plants and soils.	
Bioaccumulative Potential	Bioaccumulation: Not reported	
Mobility in Soil	This product may move with surface or groundwater flows.	
Other Adverse Effects	No known significant effects or critical hazards	

Ecotoxicity	Ingredient name	Method	Species	Results	Exposure
	Calcium Nitrate	OECD 203 Acute LC50 Fresh Water	Fish	1,378 mg/L	96 h
		Acute LC50 Fresh Water	Daphnia	490 mg/L	48 h
		Acute EC50 Salt Water	Algae	>1,700 mg/L	10 d

## Section 13 – Disposal Considerations

Waste Calcium Nitrate is not considered a hazardous waste. Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.

## Section 14 – Transport Information

This product is not classified as hazardous as defined by 49 CFR 172.101 by the US Department of Transportation

This product is not regulated as a hazardous material for transportation as defined by Canada's Transportation of Dangerous Goods Information.

This product is not regulated as a dangerous good as defined by the IMDG regulations.

This product is not regulated as a dangerous good as defined by the IATA regulations.

**Section 15 – Regulatory Information**

United States - SARA Hazard Category This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:

Fire - No      Pressure - No      Reactive - No      Acute - Yes      Chronic - No

SARA Title III Information This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical	CAS No.	CERCLA RQ	SARA Reporting	302	304	313
Calcium Nitrate Tetrahydrate	13477-34-4	N/A	N/A	N/A	N/A	N/A

CERCLA / Superfund, 40 CFR Part 117, 302 If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington DC (800-424-8802) is required.

TSCA All Components are listed or exempted.

California Prop 65 WARNING: Cancer and Reproductive Harm - [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**Section 16 – Other Information**

Date of Issue 5/12/2026

Date of Revision May 2026 SDS updated to remove old 1-800 phone number. January 2025 section 9 weight per gallon updated, intended use statement updated. February 2022 section 15 updated. November 2020 SDS created to meet GHS requirements.

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