

SAFETY DATA SHEET

Calcium Nitrate Tetrahydrate 70% Solution CT-70

Section 1 - Identification

Product Calcium Nitrate Tetrahydrate 70% Solution

CT-70

Product Code: 159

Manufacturer TradeMark Nitrogen Corp.
Address 1216 Old Hopewell Road

Tampa, FL 33619 - USA

Phone (813) 626-1181 (800) 452-3107

24 Hour Chemtrec Emergency (800) 424-9300

Contact

Recommended Use:

Utilized in industrial chemical applications, waste water treatment

and concrete.

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

P210 Keep away from open flames. - No Smoking 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 ₃) ₂ • 4H ₂ 0	13477-34-4	70 - 72%	
	Water (H ₂ 0)	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 lense 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 m 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 bloods 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 &	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.				
Equipment	Extinguishing Media: Dry chemical, foam, carbon dioxide or an ABC class extinguishers are acceptable.				
Chemical Hazard 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 - Acci	dental 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, ferderal and provincial laws and regulations for disposal.				
Section 7 - Safe	Handling & Storage				
Procautions for	Open container carefully. Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vanors or mists of				

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Preca	autions for	for 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					
Safe	Handling &	this product. Use this product with adequate ventilation. Wash thoroughly after handling.					
Stora	Storage Store in a well ventilated cool dry place. Do not freeze. Store away from direct sunlight and any sources of heat. Er						
		containers may contain residue. Do not store this material in open or unlabled containers. Store locked up.					
Incon	npatibility	Avoid contact with combustible materials, acids and alkalis. Residue would be incompatible with combustible materials.					

Section 8 – Expo								
Exposure Limits	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health			
	Calcium Nitrate Ca(NO ₃) ₂	Not Established	Not Established	Not Established	Not Established			
	Water (H2O)	Not Established	Not Established	Not Established	Not Established			
Engineering Controls	Local or gener	ral exhaust. Eyewa	ash facilities s	hould be availa	able.			
Personal	Eyes	Chemical safety		afety glasses				
Protective Hands Chemical resistant gloves.								
Equipment Respiratory None required under normal conditions. NIOSH approve of the product.					SH approved respirator if there is a mist			
	Protective Clothing	Impervious cher	nical clothing					
			or					
	Gloves	Goggles		Safety Glasse	s			
Section 9 – Physi				0 :5	4.405			
Appearance and Odor		llow to colorless significant odor.		Specific Gravity	1.485			
Boiling Point	No Data Available		Solubility in Water	Miscible No Data Available				
Freezing Point	5 - 15°F No Data Available 161.5 gal / ton						Evaporative Rate	
Vapor Pressure				рН	5.0 - 7.0			
Gallons per Ton				Salt-Out Temperature	35°F (1.67°C) Not Flammable No Data Available			
Weight per Gallon	eight per Gallon 12.38 lbs / gal		Auto Ignition Temp					
Flash Point	No Data Available No Data Available			LEL				
Flammability Limits				UEL	No Data Available			
Section 10 – Stab								
Reactivity	Product is not reactive under normal conditions.							
Stability	Product is stable under normal conditions. Hazardous polymerization will not occur.							
Hazardous Reactions								
Conditions to Avoid	Do not allow product to evaporate to dryness, product residue may act as an oxidizer and support combustion. Avoid extreme heat. Avoid incompatible materials. Avoid contact with combustible materials, acids and alkalis. Residue would be incompatible with combustible materials. Under normal conditions - hazardous decomposition products should not occur.							
Incompatible Materials								
Hazardous Decomposition Products								

Products

Section 11 - Toxicology Information

Routes of Inhalation, ingestion or skin/eye absorption

Exposure

Symptoms and Eyes Mild irritant. Signs of Exposure 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, fatique, 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 LD₅₀ Oral 500 mg / kg

Ca(NO₃)₂ 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 In high concentrations, this product may be harmful to either terrestrial and aquatic plant life. Harmful to fish and other aquatic Information

organisms.

Persistance and

Readily biodegradable in plants and soils.

Degradability

Bioaccumulative Bioaccumulation: Not reported Potential

Mobility in Soil This product may move with surface or groundwater flows.

Other Adverse **Effects**

No known significant effects or critical hazards

Ecotoxicity Ingredient Method **Species** Results Exposure

name Calcium **OECD 203** Fish 1,378 mg/L 96 h Nitrate Acute LC50

Fresh Water Acute LC50 Daphnia 490 mg/L 48 h Fresh Water Acute EC50 >1,700 mg/L 10 d Algae

Salt Water 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 - Re	gulatory Inform	ation						
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						
	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 Repo	SARA Reporting				
				302	304	313		
	Calcium							
	Nitrate Tetrahydrate	13477-34-4	N/A	N/A	N/A	N/A		
CERCLA /	If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be							
Superfund, 40	designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification							
CFR Part 117,	to the National Response Center, Washington DC (800-424-8802) is required.							

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TSCA All Components are listed or exempted.

California Prop 65 WARNING: Cancer and Reproductive Harm - www.p65warnings.ca.gov

Section 16 - Other Information

Date of Issue 2/16/2022 Date of Revision February 2022 section 15 updated. November 2020 SDS created to meet GHS requirements.

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