TRADEMARK NITROGEN

SAFETY DATA Calcium Nitrate Tetrahydrate 70% Solution CT-70

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Product	Calcium Nitrate Tetrahydrate 70% Solution CT-70	Recommended Use:
Product Code:	159	Utilized in industrial chemical
Manufacturer	TradeMark Nitrogen Corp.	applications, waste water treatment
Address	1216 Old Hopewell Road	and concrete.
	Tampa, FL 33619 - USA	
Phone	(813) 626-1181 (800) 452-3107	
24 Hour	Chemtrec	
Emergency	(800) 424-9300	
Contact		

Section 2 – Hazard Identification



Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation
11045	O a second a status timultantians

- H315 Causes skin irritation
- H335 May cause respiratory irritation

Precautionary Statements:

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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 – Co	mposition		
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 medica 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.
ngestion	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 harmfu 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 F	ighting 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 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 sustair combustion. In a fire this material may decompose and produce oxides of nitrogen, metal oxide(s).
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 – Accid	ental 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.
n 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 I	Handling & Storage
Precautions 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 & Storage	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 unlabled containers. Store locked up.
Incompatibility	Avoid contact with combustible materials, acids and alkalis. Residue would be incompatible with combustible materials.

Section 8 – Expos	-						
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	al exhaust. Eyewa	ash facilities s	hould be availa	able.		
Personal Protective Equipment	Eyes Hands Respiratory	Chemical safety Chemical resista None required u of the product.	ant gloves.		SH approved respirator if there is a mist		
	Protective Clothing	Impervious cher	nical clothing				
	MED I						
	Gloves	Goggles					
Section 9 – Physi							
Appearance and Odor		low to colorless significant odor.		Specific Gravity	1.485		
Boiling Point	>212°F (>100°	°C)		Solubility in Water	Miscible		
Freezing Point	5 - 15°F			Evaporative Rate	No Data Available		
Vapor Pressure	No Data Availa	able		pН	5.5 - 7.0		
Gallons per Ton	161.5 gal / ton			Salt-Out Temperature	35°F (1.67°C)		
Weight per Gallon	on 12.38 lbs / gal			•	Not Flammable		
Flash Point	No Data Availa	able		LEL	No Data Available		
Flammability	No Data Availa	able		UEL	No Data Available		
Limits							
Section 10 – Stab Reactivity	Product is not	i <mark>ty</mark> reactive under no	rmal condition	IS.			
Stability		ole under normal o					
Hazardous Reactions	Hazardous pol	lymerization will n	ot occur.				
Conditions to Avoid		roduct to evapora compatible materia		product residu	e may act as an oxidizer and support combustion. Avoid extreme		
Incompatible Materials		•		ls and alkalis.	Residue would be incompatible with combustible materials.		
Hazardous Decomposition Products	Under normal	conditions - hazar	dous decomp	osition produc	ts should not occur.		

Section 11 – Tox	icolog <u>y inforn</u>									
Routes of		gestion or skin/ey	e absorption							
Exposure										
Symptoms and	,									
Signs of Exposure	e Skin Mild irritant. Inhalation May irritate respiratory tract causing sneezing, cough and sore throat.									
	Innalation Ingestion	If ingested this Ingestion may	product may cause gastroi	cause burns to t ntestinal irritatio	ig, cough and sore throat. the mouth, throat, esophagus and possibly the digestive tract. n, nausea, vomiting and diarrhea. This product may cause erized by cyanosis, headache, dizziness, fatigue, nausea, vomit	ing,				
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	s Methemoglob	pinemia is the prir	nary long-tern	n health effect. F	Repeated skin contact with this material may cause dermatitis.					
Toxicity	No limits have	e been set for this	s material.							
	Component A	Analysis:								
	Calcium Nitra Ca(NO ₃) ₂	ate	LD ₅₀ Oral Rat	500 mg / kg						
Carcinogen	The Internation	onal Agency for R	Research on C	ancer has not c	lassified calcium nitrate for its carcinogenic potential (IARC 198	7).				
Section 12 – Eco	logical Inform	ation								
Section 12 – Eco General Product Information	_ •		oduct may be	harmful to either	r terrestrial and aquatic plant life. Harmful to fish and other aqua	tic				
General Product	In high conce organisms.		-	harmful to either	r terrestrial and aquatic plant life. Harmful to fish and other aqua	tic				
General Product Information Persistance and	In high conce organisms. Readily biode	entrations, this pro	s and soils.	harmful to either	r terrestrial and aquatic plant life. Harmful to fish and other aqua	tic				
General Product Information Persistance and Degradability Bioaccumulative	In high conce organisms. Readily biode Bioaccumula	entrations, this pro	s and soils.		r terrestrial and aquatic plant life. Harmful to fish and other aqua	tic				
General Product Information Persistance and Degradability Bioaccumulative Potential	In high conce organisms. Readily biode Bioaccumulat This product	entrations, this pro egradable in plant tion: Not reported	s and soils. I	ndwater flows.	r terrestrial and aquatic plant life. Harmful to fish and other aqua	tic				
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General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects	In high conce organisms. Readily biode Bioaccumulat This product No known sig Ingredient	entrations, this pro egradable in plant tion: Not reported may move with so gnificant effects of	s and soils. urface or grou r critical hazar	ndwater flows. ds		tic				
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects	In high conce organisms. Readily biode Bioaccumula This product No known sig Ingredient name Calcium	entrations, this pro egradable in plant tion: Not reported may move with su gnificant effects of Method OECD 203 Acute LC50	s and soils. urface or grou r critical hazar Species	ndwater flows. rds Results	Exposure	tic				
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects	In high conce organisms. Readily biode Bioaccumula This product No known sig Ingredient name Calcium	entrations, this pro egradable in plant tion: Not reported may move with su gnificant effects of Method OECD 203 Acute LC50 Fresh Water Acute LC50	s and soils. urface or grou r critical hazar Species Fish	ndwater flows. rds Results 1,378 mg/L	Exposure 96 h 48 h	tic				
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects Ecotoxicity Section 13 – Disp	In high conce organisms. Readily biode Bioaccumula This product No known sig Ingredient name Calcium Nitrate	entrations, this pro- egradable in plant tion: Not reported may move with su gnificant effects of Method OECD 203 Acute LC50 Fresh Water Acute LC50 Fresh Water Acute EC50 Salt Water	s and soils. urface or grou r critical hazar Species Fish Daphnia Algae	ndwater flows. ds Results 1,378 mg/L 490 mg/L >1,700 mg/L	Exposure 96 h 48 h 10 d	tic				
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects Ecotoxicity	In high conce organisms. Readily biode Bioaccumulat This product No known sig Ingredient name Calcium Nitrate	entrations, this pro- egradable in plant tion: Not reported may move with su gnificant effects of Method OECD 203 Acute LC50 Fresh Water Acute LC50 Fresh Water Acute EC50 Salt Water erations	s and soils. urface or grou r critical hazar Species Fish Daphnia Algae red a hazardo	ndwater flows. rds Results 1,378 mg/L 490 mg/L >1,700 mg/L us waste. Dispo	Exposure 96 h 48 h	tic				
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse Effects Ecotoxicity Section 13 – Disp	In high conce organisms. Readily biode Bioaccumula This product No known sig Ingredient name Calcium Nitrate	entrations, this pro- egradable in plant tion: Not reported may move with su gnificant effects of Method OECD 203 Acute LC50 Fresh Water Acute LC50 Fresh Water Acute EC50 Salt Water erations at eis not consider al regulations. Pla	s and soils. urface or grou r critical hazar Species Fish Daphnia Algae red a hazardo	ndwater flows. rds Results 1,378 mg/L 490 mg/L >1,700 mg/L us waste. Dispo	Exposure 96 h 48 h 10 d sal must be done in accordance with local, state and federal	tic				

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.

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 follow categories:							
	Fire - No	Pressure - No	Reactive - No	Acute - Yes	Chronic - No			
SARA Title III Information		contains the follow and Reauthorizat				irements of Tit	tle III (EPCRA) of the Superfund	
	Chemical	CAS No.	CERCLA RC	SARA Repo	orting			
				302	304	313		
	Calcium Nitrate Tetrahydrate	13477-34-4	N/A	N/A	N/A	N/A		
CERCLA / Superfund, 40 CFR Part 117, 302	designated in		vith the RQ val	ue in pounds.	. If there is a rele	ase of RQ Sub	able Quantity (RQ) Substances, it wi ostance to the environment, notificati	
TSCA	All Componen	nts are listed or ex	cempted.					
California Prop 6	5 WARNING: C	ancer and Repro	ductive Harm -	www.p65war	rnings.ca.gov			
Section 16 – Otl								
Date of Issue	2/16/2022							
Date of Revision	February 2022	2 section 15 upda	ited. Novembe	r 2020 SDS c	reated to meet G	HS requireme	nts.	
Disclaimer	with any other							

TradeMark Nitrogen Corp. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.