TRADEMARK NITROGEN

SAFETY DATA CT-66 Calcium Nitrate Tetrahydrate 66% Solution

Product	Calcium Nitrate Tetrahydrate 66% Solution CT-66	Recommended Use:
Product Code: Manufacturer Address	159 TradeMark Nitrogen Corp. 1216 Old Hopewell Road Tampa, FL 33619 - USA	Utilized in industrial applications such as waste water treatment (to prevent odor and control sulfides) and concrete admixtures (to accerlerate setting and improve durability)
Phone 24 Hour Emergency Contact	(813) 626-1181 (800) 452-3107 Chemtrec (800) 424-9300	

GHS07 GHS05

Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation
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- 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	66.00%
	Water (H ₂ 0)	7732-18-5	Balance

	Aid Measures
nhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medic 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 sustai 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 – Accid	lental 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.
	Handling & Storage
Section 7 – Safe I	
Section 7 – Safe I 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 unlabled containers. Store locked up.

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		
	MIS]		or		
	Gloves	Goggles		Safety Glasse	S
Section 9 – Physi Appearance and Odor	Clear, light-yel	I Properties low to colorless significant odor.		Specific Gravity	1.458
Boiling Point	No Data Availa	able		Solubility in Water	Miscible
Freezing Point	No Data Availa	able		Evaporative Rate	No Data Available
Vapor Pressure	No Data Availa	able		рН	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				Not Flammable
Flash Point	No Data Availa	able		LEL	No Data Available
Flammability Limits	No Data Availa	able		UEL	No Data Available
Section 10 – Stab Reactivity	ility & Reactivi Product is not	<mark>ity</mark> reactive under no	rmal conditior	IS.	
Stability		ole under normal o			
Hazardous Reactions		lymerization will n			
Conditions to Avoid		roduct to evapora compatible materia	•	product residu	e may act as an oxidizer and support combustion. Avoid extreme
Incompatible Materials				ds and alkalis.	Residue would be incompatible with combustible materials.
Hazardous Decomposition Products	Under normal	conditions - hazaı	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	Eyes	Mild irritant.				
Signs of Exposure		Mild irritant.				
	Inhalation Ingestion	If ingested this Ingestion may	product may cause gastroi	cause burns to t ntestinal irritatio	ng, 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		may be harmful o f this product may			uct is irritating to the eyes, respiratory system and skin. The nitr	ate
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
General Product Information Persistance and Degradability Bioaccumulative Potential Mobility in Soil Other Adverse	In high conce organisms. Readily biode Bioaccumulat This product	entrations, this pro egradable in plant tion: Not reported may move with si	s and soils. I	ndwater flows.	terrestrial and aquatic plant life. Harmful to fish and other aqua	tic
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.

Section 15 - Reg	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 follow categories:								
	Fire - No	Pressure - No	Reactive - No	Acute - Yes	Chronic - No				
SARA Title III nformation		contains the follo and Reauthoriza	0			uirements o	Title III (EF	PCRA) of the S	Superfund
	Chemical	CAS No.	CERCLA RO	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	If this product designated in	contains compo the above table Il Response Cen	with the RQ va	lue in pounds.	If there is a rele	ase of RQ			
TSCA	All Componer	nts are listed or e	exempted.						
California Prop 6	5 WARNING: C	ancer and Repro	oductive Harm	- www.p65war	nings.ca.gov				
Section 16 – Oth	her Information								
Date of Issue	1/20/2025								
Date of Revision	· , · ·	section 9 weight 20 SDS created	1 0 1	,	d use statement	udpated. Fe	bruary 2022	2 section 15 u	pdated.
November 2020 SDS created to meet GHS requirements. Disclaimer The information contained in this SDS refers only to the specific material designated and does not relate to any process with any other materials. This information is furnished free of charge and is based on data believed to be accurate and r									

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