TRADEMARK NITROGEN



C-Nite[™] CALCIUM NITRITE 30% SOLUTION

Section 1 – Identification

Product

Recommended Use:

Manufacturer	TradeMark Nitrogen Corp.
Address	1216 Old Hopewell Road, Tampa, FL 33619
Phone	(813) 626-1181 (800) 452-3107
24 Hour	Chemtrec
Emergency	(800) 424-9300
Contact	

C-Nite[™] Calcium Nitrite 30% Solution

As a corrosion inhibitor in concrete

Section 2 – Hazard Identification



Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation

Water (H₂0)

Precautionary Statements:

- P260 Do not breathe dust / fume / gas / mist / vapors / spray
- P264 Wash thoroughly after handling
- P270 Do not eat, drink or smoke when using this product

7732-18-5

Section 3 – Composition					
Ingredients	Component	CAS. No.	Percent by		
	Calcium Nitrate Ca(NO ₃) ₂	10124-37-5	<3%		
	Calcium Nitrite Ca(NO ₂) ₂	13780-06-8	30 - 35%		

Balance

Section 4 – Fir	st 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	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, but possible excessive action of the kidneys and perhaps bowels can occur.

Section 5 - Fi	re Fighting Measures						
Suitable	Calcium Nitrite is an non-flammable aqueous solution and will not burn. However, it evaporated to dryness this product is an oxidizer and can						
Extinguishing	sustain combustion.						
Techniques &							
Equipment	Extinguishing Media: Dry chemical, carbon dioxide, water fog.						
Chemical	If product evaporates, residual solid may sustain combustion. Decompostion may yield calcium compounds and oxides of nitrogen.						
Hazards From							
Fire							
Special Fire	Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling						
Fighting	any combustion products						
Procedures							
NEDA Doting							
NFPA Rating	Health - 2 (Moderate)						
	Fire - 0 (Least)						
	Reactivity - 0 (Least)						
Other	Do not allow run-off from fire fighting to enter drains or water courses						
Cartion C Ac							
Section 6 – Ac							
Personal	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.						
Precautions							
Protective	PPE should include gloves, goggles, face shield and impervious clothing.						
Equipment							
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 spraving. 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 – Sa	ife Handling & Storage						
Precautions for	Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eves, on your skin, or on your clothing.						

Safe Handling & 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 reuse empty containers. Do not store this material in open or unlabled containers.

Incompatibility Avoid contact with ammonium salts, activated carbon, reducing agents, cyanides. 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 Nitrite	Not Established	Not Established	Not Established	Not Established		
	Calcium Nitrate	Not Established	Not Established	Not Established	Not Established		
	Water (H ₂ O)	Not Established	Not Established	Not Established	Not Established		
Engineering Controls	Local or general exhaust. Eyewash facilities should be available.						
Personal	Eyes	Eyes Chemical safety goggles or safety glasses.					
Protective Equipment	Hands	Impervious gloves.					
	Respiratory	None required under normal conditions. NIOSH approved respirator if there is a mist of the product.					
	Protective Clothing Impervious chemical clothing						
	m						

Gloves





Safety Glasses



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Section 9 – Ph	vsical & Chemical Properties				
Appearance and Odor	Clear, light-yellow to colorless liquid with slight sweet odor.	Specific Gravity	1.27 - 1.33		
Boiling Point	Approx. 226°F (108°C) at 1 atmosphere	Molecular Weight	N/A		
Freezing Point	No Data Available	Solubility in Water	Complete (100%)		
Vapor Pressure	No Data Available	Evaporative Rate			
Gallons per Ton		pH	8.5 - 9.5		
Weight per Gallon		Salt-Out Temp	No Data Available		
Flash Point	>200°F (>93° C)	Auto Ignition Temp	Not Flammable		
Flammability	No Data Available	LEL	No Data Available		
Limits		UEL	No Data Available		
Section 10 - St	tability & 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	Do not allow product to evaporate to dryness, product residue may act as an oxidizer and support combustion. Avoid extreme heat. Avoid incompatible materials.
Incompatible Materials	Avoid contact with ammonium salts, activated carbon, reducing agents, cyanides. Residue would be incompatible with combustible materials.
Hazardous Decomposition Products	Decomposition may yield calcium compounds and oxides of nitrogen.
Section 11 -	Toxicology Information
Routes of Exposure	Inhalation, ingestion or skin/eye absorption

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Symptoms and	Eyes	Causes moderate eye	e irritation.					
Signs of	Skin	Mild irritant.						
Exposure	Inhalation	May irritate respiratory tract causing sneezing, cough and sore throat.						
	Ingestion	If ingested this produce Ingestion may cause a methemoglobinemia u drowsiness, stupor, ca	ct will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, oma, and rarely death.					
Acute Health Hazards	This product may be and skin. The nitrate	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	Calcium Nitrite 13780-06-8							
	Rat Oral Toxicity	LD ₅₀	940 mg / kg					
	Water (7732-18-5)							
	Rat Oral Toxicity	LD ₅₀	>90 mL / kg					

Carcinogen IARC: Monograph 94 posted (related to nitrates) Group 2A (probably carcinogenic to humans)

Section 12 – E	cological Inform	ation				
General Product Information	In high concentration	ons, this product may be	harmful to either t	errestrial and aq	uatic plant life	
Ecotoxicity	Aquatic Toxicity: Calcium Nitrate (10124-37-5)	96 Hr LC50 Leomis Macrochirus	120 Hr EC50 Daphnia Magna			
		10000 mg / L	2355 mg / L			
	Endpoint	Test Duration	Species	Value	Source	
	EC50	48 hrs	Crustacea	45 mg/l	1	
	LC50	96 hrs	Fish	>100 mg/l	1	
	EC50	72 hrs	Algae or other aquatic plants	> 100 mg/l	1	
	EC50(ECx)	48 hrs	Crustacea	45 mg/l	1	
	*1: Europe ECHA F	Registered Substances -	Ecotoxicological I	nformation - Aqu	atic Toxicity	
Section 13 – D	isposal Conside	rations				
Waste	Calcium Nitrite is n regulations. Place	ot considered a hazardo waste in an appropriate o	ous waste. Disposa container with corre	l must be done i ect labeling.	n accordance with loc	al, state and federal environmental
Section 14 – T	ransport Informa	tion				
This product is no	ot classified as hazar	dous as defined by 49 C	FR 172.101 by the	e US Departmen	t of Transportation	
This product is no	ot regulated as a haz	ardous material for trans	sportation as define	ed by Canada's ⁻	Fransportation of Dan	gerous Goods Information.
Section 15 – R	egulatory Inform	ation				
United States - SARA Hazard Category	This product has be Amendments and F	een reviewed according Reauthorization Act (SAI	to the EPA Hazard RA) and is conside	l Categories proi red, under applic	nulgated under Sectio cable definitions, to m	ons 311 and 312 of Title III of the Superfund eet the following categories:
	Fire - No	Pressure - No	Reactive - No	Acute - Yes	Chronic - No	
SARA Title III Information	This product contain Reauthorization Action	ins the following substan t of 1986 and 40 CFR Pa	ices subject to the art 372:	reporting require	ments of Title III (EPC	CRA) of the Superfund Amendments and
	Chemical	CAS No.	CERCLA RQ (Ib	s SARA Reporti	ng	
				302	304	313
	Calcium Nitrite	13780-06-8	N/A	N/A	N/A	N/A
	Calcium Nitrate	10124-37-5	N/A	N/A	N/A	Yes ⁽¹⁾
	(1) - Thefollowing of	components are subject	to reporting levels	established by S	ARA Title III 313:	
		Calcium Nitrate	10124-37-5	>= 1 - < 5%		
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 chemical substances in this product are either listed as Active on the TSCA inventory or are in compliance with a TSCA Inventory exemption.					
Section 16 - C	ther Information					
Date of Issue	2/14/2024					
Date of Revision	May 2023 Aquatic toxicity data added. October 2022 formatting update. October 2019 Section 9 updated. June 2019 TSCA Statement revised to include the word 'Active'. SDS Created October 2018					
Disclaimer	The information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is furnished free of charge and is based on data believed to be accurate and reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no warranty, expressed or implied, and no liability is assumed by TradeMark Nitrogen Corp. in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents. 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.					