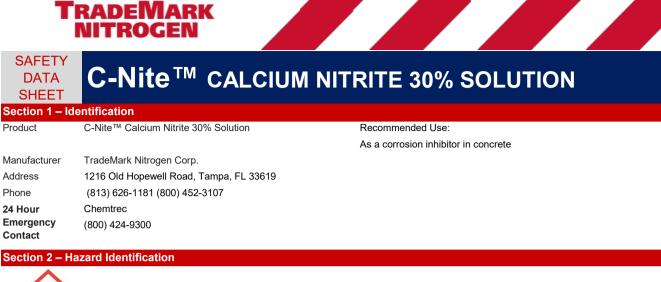
TRADEMARK NITROGEN





WARNING Signal Word:

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation

Water (H₂0)

Precautionary Statements:

P260 Do not breathe dust / fume / gas / mist / vapors / spray

7732-18-5

- P264 Wash thoroughly after handling
- P270 Do not eat, drink or smoke when using this product

Section 3 – C	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 – Fi	rst 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.

	e Fighting Measures
Suitable Extinguishing Techniques &	Calcium Nitrite is an non-flammable aqueous solution and will not burn. However, if evaporated to dryness this product is an oxidizer and can sustain combustion.
Equipment	Extinguishing Media: Dry chemical, carbon dioxide, water fog.
Chemical Hazards From Fire	If product evaporates, residual solid may sustain combustion. Decompostion may yield calcium compounds and oxides of nitrogen.
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 - 2 (Moderate)
-	Fire - 0 (Least)
	Reactivity - 0 (Least)
Other	Do not allow run-off from fire fighting to enter drains or water courses.
Section 6 – Ac	cidental 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 – Sa	fe Handling & Storage
Precautions for	Open container carefully, as needed to relieve any build up of pressure. Do not get this material in your eyes, 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.

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		
ngineering Controls	Local or general exh	aust. Eyewash facilities	should be availab	e.			
ersonal	Eyes Chemical safety goggles or safety glasses.						
Protective Equipment	Hands	Impervious gloves.					
	Respiratory	ratory None required under normal conditions. NIOSH approved respirator if there is a mist of the product.					
quipment							

Gloves





Safety Glasses



Page 2 of 4

	ysical & 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		pН	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

	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	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 – 1	Foxicology Information
Routes of Exposure	Inhalation, ingestion or skin/eye absorption

Routes of Exposure	Inhalation, ingestion	n or skin/eye abs	sorption			
Symptoms and	Eyes	Causes mode	erate eye irritation.			
Signs of	Skin	Mild irritant.				
Exposure	Inhalation	May irritate respiratory tract causing sneezing, cough and sore throat.				
	Ingestion	Ingestion may methemoglob	is product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. y cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause pinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, stupor, coma, and rarely death.			
Acute Health Hazards			al if swallowed. This product is irritating to the eyes, respiratory system this product may cause Methemoglobinemia.			
Long Term Effects	Methemoglobinemi	a 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)

Information	In high concentrations, this product may be harmful to either terrestrial and aquatic 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 I	Registered Substances -	Ecotoxicological I	nformation - Aqu	atic Toxicity				
Section 13 – D) isposal Conside	rations							
Waste	Calcium Nitrite is n	ot considered a hazardo	ous waste. Disposa	al must be done i	n accordance with lo	cal, state and federal environment	al		
	regulations. Place	waste in an appropriate	container with corr	ect labeling.					
Section 14 – T	ransport Informa	ation							
This product is no	ot classified as haza	dous as defined by 49 C	CFR 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 defin	ed by Canada's ⁻	Fransportation of Da	ngerous Goods Information.			
	Regulatory Inform		•	-	•				
Jnited States - SARA Hazard Category						ons 311 and 312 of Title III of the neet the following categories:	Superfu		
outogoly			Reactive - No	Acute - Yes	Chronic - No				
	Fire - No		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:						
			nces subject to the		ements of Title III (EF	CRA) of the Superfund Amendme	ents and		
	This product conta Reauthorization Ac	ins the following substar at of 1986 and 40 CFR P	nces subject to the art 372:	reporting require		CRA) of the Superfund Amendme	ents and		
	This product conta	ins the following substar	nces subject to the art 372:	reporting require	ng		ents and		
	This product conta Reauthorization Ac Chemical	ins the following substar t of 1986 and 40 CFR P CAS No.	nces subject to the art 372: CERCLA RQ (II	reporting require os SARA Reporti 302	ng 304	313	ents and		
SARA Title III nformation	This product conta Reauthorization Ac	ins the following substar at of 1986 and 40 CFR P	nces subject to the art 372:	reporting require	ng		ents and		
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nformation CERCLA / Superfund, 40 CFR Part 117,	This product conta Reauthorization Ac Chemical Calcium Nitrite If this product cont in the above table Center, Washingto	ins the following substar t of 1986 and 40 CFR P CAS No. 13780-06-8 ains components subjec with the RQ value in pou	nces subject to the art 372: CERCLA RQ (It N/A t to substances de inds. If there is a re required.	reporting require SARA Reporti 302 N/A signated as CER elease of RQ Sut	ng 304 N/A CLA reportable Qua	313 N/A ntity (RQ) Substances, it will be de	esignate		
CERCLA / Superfund, 40 SFR Part 117, 102 TSCA	This product conta Reauthorization Ac Chemical Calcium Nitrite If this product cont in the above table Center, Washingto	ins the following substar t of 1986 and 40 CFR P CAS No. 13780-06-8 ains components subjec with the RQ value in pou in DC (800-424-8802) is um salt is listed on the A	nces subject to the art 372: CERCLA RQ (It N/A t to substances de inds. If there is a re required.	reporting require SARA Reporti 302 N/A signated as CER elease of RQ Sut	ng 304 N/A CLA reportable Qua	313 N/A ntity (RQ) Substances, it will be de	esignate		
nformation CERCLA / Superfund, 40 CFR Part 117, 302 FSCA	This product conta Reauthorization Ac Chemical Calcium Nitrite If this product cont in the above table of Center, Washingto Nitrous acid, Calcin	ins the following substar t of 1986 and 40 CFR P CAS No. 13780-06-8 ains components subjec with the RQ value in pou in DC (800-424-8802) is um salt is listed on the A	nces subject to the art 372: CERCLA RQ (It N/A t to substances de inds. If there is a re required.	reporting require SARA Reporti 302 N/A signated as CER elease of RQ Sut	ng 304 N/A CLA reportable Qua	313 N/A ntity (RQ) Substances, it will be de	esignate		
nformation CERCLA / Superfund, 40 CFR Part 117, 302 FSCA Section 16 – C	This product conta Reauthorization Ac Chemical Calcium Nitrite If this product cont in the above table of Center, Washington Nitrous acid, Calcion Dither Information 5/25/2023 May 2023 Aquatic	ins the following substar t of 1986 and 40 CFR P CAS No. 13780-06-8 ains components subjec with the RQ value in pou n DC (800-424-8802) is um salt is listed on the A	CERCLA RQ (II CERCLA RQ (II N/A t to substances de inds. If there is a re required. ctive TSCA invent	reporting require SARA Reporti 302 N/A signated as CER elease of RQ Sub	ng 304 N/A RCLA reportable Qua ostance to the enviro	313 N/A ntity (RQ) Substances, it will be de	esignate Respor		