TRADEMARK NITROGEN



C-Nite[™] CALCIUM NITRITE 30% SOLUTION

SHEET Section 1 – Identification

Product C-Nite™ Calcium Nitrite 30% Solution Manufacturer TradeMark Nitrogen Corp. Recommended Use:

As a corrosion inhibitor in concrete

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

Section 2 – Hazard Identification



Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation

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

Ingredients	Component CA	AS. No.	Percent by
	Calcium Nitrate 10 ⁷ Ca(NO ₃) ₂	0124-37-5	<3%
	Calcium Nitrite 137 Ca $(NO_2)_2$	3780-06-8	29 - 31%

Water (H₂0) 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 necessarv 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. If swallowed: Immediately contact a physician or poison control center. Do NOT induce vomiting, unless advised by a medical professional. Ingestion Drink one to two glasses of water. Never give anything by mouth to an unconscious person. Acute Health High levels of nitrates may reduce the bloods ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin Hazards (methemoglobinemia). Chronic Health Methemoglobinemia is the primary health effect, but possible excessive action of the kidneys and perhaps bowels can occur. Hazards

	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 exhaust. Eyewash facilities should be available.							
ersonal	Eyes Chemical safety goggles or safety glasses.							
rotective	Hands	Impervious gloves.						
Equipment	Respiratory	None required under normal conditions. NIOSH approved respirator if there is a mist of the product.						
quipment		Protective Clothing Impervious chemical clothing						

Gloves





Safety Glasses



Page 2 of 4

Section 9 – Ph	ysical & Chemical Properties				
Appearance and Odor	Clear, light-yellow to colorless liquid with slight sweet odor.	Specific Gravity	1.29		
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	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		
Section 10 – S	tability & Reactivity				

Section 10 - a	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
Symptoms and	Eves Causes moderate eve irritation

Exposure			
Symptoms and	Eyes	Causes mode	rate eye irritation.
Signs of	Skin	Mild irritant.	
Exposure	Inhalation	May irritate re	spiratory tract causing sneezing, cough and sore throat.
	Ingestion	Ingestion may methemoglobi	s product will immediately cause burns to the mouth, throat, esophagus and possibly the digestive tract. cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may cause inemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, tupor, coma, and rarely death.
Acute Health Hazards			l if swallowed. This product is irritating to the eyes, respiratory system this product may cause Methemoglobinemia.
Long Term Effects	Methemoglobinemi	a is the primary l	ong-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)

	cological Inform		hormful to aith 4	orrotrial and	uctio plant life				
nformation	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 Registered Substances - Ecotoxicological Information - Aquatic Toxicity								
Section 13 – D	isposal Conside								
Waste	Calcium Nitrite 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.								
	ransport Informa								
		dous as defined by 49 C	,	•					
	-		sportation as define	ed by Canada's 1	ransportation of Dan	gerous Goods Informatio	n.		
	egulatory Inform								
Jnited States - SARA Hazard Category		0		U .	0	ons 311 and 312 of Title I et the following categori	•		
	Fire - No	Pressure - No	Reactive - No	Acute - Yes	Chronic - No				
SARA Title III nformation		ins the following substan at of 1986 and 40 CFR Pa		reporting require	ments of Title III (EP	CRA) of the Superfund A	mendments and		
	Chemical	CAS No.	CERCLA RQ (II	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 components are subject to reporting levels established by SARA 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 substated exemption.	ances in this product are	either listed as Ac	tive on the TSCA	t inventory or are in c	ompliance with a TSCA I	nventory		
	ther Information								
Date of Issue	7/9/2024								
Date of Revision		dated to reflect new pH ra 019 TSCA Statement rev				22 formatting update. Oct 2018	ober 2019 Secti		
Disclaimer	materials. This info intended for use by warranty, expresse Nothing herein is to to vendee or third p	ormation is furnished free / persons possessing teo od or implied, and no liab o be construed as a reco	of charge and is l chnical knowledge ility is assumed by mmendation to inf sed by abnormal u	based on data be at their own disc TradeMark Nitro ringe any patents se of the materia	lieved to be accurate retion and risk. Since ogen Corp. in conjunc s. TradeMark Nitroger	elate to any process or ua and reliable as of the da actual use is beyond our tion with the use of this ir or Corp. assumes no resp safety procedures are follo	te hereof. It is control, no formation. onsibility for inju		