TRADEMARK NITROGEN

SAFETY DATA SHEET

CAN - 17 Calcium Ammonium Nitrate Solution

Section 1 – Identification

Product	CAN - 17 Calcium Ammonium Nitrate Solution	Recommended Use: Use as a fertilizer.
Manufacturer	TradeMark Nitrogen Corp.	
Address	1216 Old Hopewell Road, Tampa, FL 33619 - USA	
Phone	(813) 626-1181	
24 Hour Emergency Contact	Chemtrec (800) 424-9300	

Section 2 – Hazard Identification

GHS07

Signal Word: **WARNING**

Hazard Statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary Statements:

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
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 easy to do. Continue rinsing
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 – Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Ammonium Nitrate NH_4NO_3	6484-52-2	20 - 40%
	Nitric Acid, Calcium Salt Anhydrous (2:1) $(Ca(NO_3)_2)$	10124-37-5	20 - 40%
	Water (H_2O)	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 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. Give small quantities of water to drink. 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 harmful or fatal. High levels of nitrates may reduce the bloods ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia).

Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	Extinguishing Media: Use an extinguishing media suitable for the surrounding fire.
Chemical Hazards From Fire	In a fire this material may decompose produce oxides of nitrogen and 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 byproducts.
NFPA Rating	Health - 0 (Least) Fire - 0 (Least) Reactivity - 0 (Least)
Other	Do not allow run-off from fire fighting to enter drains or water courses.

Section 6 – Accidental Release Measure

Personal Precautions	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE. Avoid breathing mist or vapor.
Protective Equipment	PPE should include gloves, goggles or face shield and impervious chemical resistant 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 – Safe Handling & Storage

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. Do not store this material in open or unlabled containers or tanks. Do not eat, drink or smoke while using this product. Workers should wash hands and face before eating, drinking or smoking.
Incompatibility	Avoid contact with combustilbe materials, strong acids, strong bases, and alkalis. 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
	Nitric Acid, Calcium Salt (2:1) ($Ca(NO_3)_2$)	Not Established	Not Established	Not Established	Not Established
	Ammonium Nitrate NH_4NO_3	Not Established	Not Established	Not Established	Not Established

Engineering Controls	Local or general exhaust. Ensure good ventilation of the work station. Eyewash facilities should be available. Avoid release into the environment via environmental exposure controls.	
Personal Protective Equipment	Eyes	Chemical safety goggles or safety glasses.
	Hands	Chemical resistant gloves.
	Respiratory	None required under normal conditions. NIOSH approved respirator if there is a mist of the product.

Protective Clothing — Impervious chemical clothing


Gloves


Goggles

or


Safety Glasses


Chemical Resistant Clothing

Section 9 – Physical & Chemical Properties

Appearance and Odor	Clear liquid with little or no significant odor.	Specific Gravity	1.518 @ 68°F
Boiling Point	No Data Available	Molecular Weight	N/A
Freezing Point	No Data Available	Solubility in Water	Complete > 100g / L
Vapor Pressure	No Data Available	Evaporative Rate	No Data Available
Gallons per Ton	158.7 (0.66 L/kg)	pH	6 - 7
Weight per Gallon	12.6 lbs / gal	Salt-Out Temp	25°F (-3.9°C)
Flash Point	Not applicable	Auto Ignition Temp	Not applicable
Flammability Limits	Not flammable	LEL	No Data Available
		UEL	No Data Available

Section 10 – Stability & Reactivity

Reactivity	Product is not reactive under normal conditions.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Under normal conditions of storage and use, 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 and low temperatures. Avoid direct sunlight. Avoid incompatible materials. Avoid contamination by any source including metals, dust and organic materials.
Incompatible Materials	Avoid contact with combustible materials, organic materials, strong acids, strong bases, and oxidizable materials. Residue would be incompatible with combustible materials.
Hazardous Decomposition Products	Under normal conditions, hazardous decomposition products should not be produced.

Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or skin/eye absorption	
Symptoms and Signs of Exposure	Eyes	Mild irritant.
	Skin	Mild irritant.
	Inhalation	May irritate respiratory tract causing sneezing, cough and sore throat.
	Ingestion	If ingested this product may cause burns to the mouth, throat, esophagus and possibly the digestive
Acute Health Hazards	This product may be harmful if swallowed. This product may be 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	No limits have been set for this material.	

Component Analysis:

Ammonium Nitrate	LD_{50} Oral Rat	4,820 mg / kg
Calcium Nitrate	LD_{50} Oral Rat	500 mg / kg

Carcinogen	The International Agency for Research on Cancer has not classified CAN-17 for its carcinogenic potential (IARC 1987).
California Prop 65	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

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General Product Information	In high concentrations, this product may be harmful to either terrestrial and aquatic plant life. Harmful to fish and other aquatic organisms.
Persistance and Degradability	Readily biodegradable in plants and soils.
Bioaccumulative Potential	Bioaccumulation: Not reported
Mobility in Soil	This product may move with surface or groundwater flows.
Other adverse effects	No known significant effects or critical hazards.

Ecotoxicity

Ingredient name	Method	Species	Results	Exposure
Ammonium Nitrate (6484-52-2)	Acute LC50 Fresh Water	Fish	447 mg/L	48 h
	Acute EC50 Fresh Water	Daphnia	490 mg/L	48 h
	Acute EC50 Salt Water	Algae	1,700 mg/L	10 d
Calcium Nitrate, anhydrous (10124-37-5)	LC50 Fish 1	Pisces	10,000 mg/L	96 h
	LC50 Fish 2	Lepomis Macrochirus	10,000 mg/L	96 h

Section 13 – Disposal Considerations

Waste	Calcium Ammonium Nitrate 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. The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Avoid dispersal of spilled.

Section 14 – Transport Information

This product is not classified as hazardous as defined by 49 CFR 172.101 by the US Department of Transportation

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 – Regulatory Information

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 following categories:

Fire - No | Pressure - No | Reactive - No | Acute - Yes | Chronic - No

SARA Title III Information

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:

Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting		
			302	304	313
Ammonium Nitrate	6484-52-2	N/A	N/A	N/A	Yes[1]

(1) As nitrate compounds (water dissociable)

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

Calcium Nitrate Solution is a hydrated form of nitric acid calcium salt, which is listed on the Active TSCA inventory.

Section 16 – Other Information

Date of Issue **7/21/2026**

Date of Revision

July 2026 minor updates, no technical changes. June 2022 format update. November 2021 SDS revised sections 3, 9 and 12. June 2020 SDS Updated per GHS requirements. June 2019 TSCA Statement revised to include the word 'Active'. SDS Created October 2018.

Disclaimer

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