

SAFETY DATA SHEET

CALCIUM NITRATE SOLUTION

Section 1 – Identification

Product	Calcium Nitrate Solution (CN-9, 9-0-0-11 Ca)	Recommended Use:
Manufacturer	TradeMark Nitrogen Corp.	Use as a fertilizer.
Address	1216 Old Hopewell Road, Tampa, FL 33619	
Phone	(813) 626-1181 (800) 452-3107	
24 Hour Emergency Contact	Chemtrec (800) 424-9300	

Section 2 – Hazard Identification

Hazard	Product is not hazardous under normal conditions.
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Section 3 – Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Hydrated Ammonium Calcium Nitrate double salt (Ca.xNH ₃ .xHNO ₃)	15245-12-2	59.00%
	Water (H ₂ O)	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 with soap and water for at least 15 minutes.
Eye Contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	Moderate irritant of eyes, skin and contaminated tissue. Prolonged contact can result in tissue damage which could lead to blindness. Ingestion can be harmful or fatal.
Chronic Health Hazards	Prolonged skin contact may result in dermatitis (inflammation and redness of skin).

Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	Not combustible or reactive, but can contribute to the intensity of the fire. Water spray is recommended. Halon, foam, dry chemical, CO ₂ or any ABC class extinguisher are acceptable. Wear self-contained breathing apparatus and full protective gear.
Chemical hazards From Fire	In a fire this material may decompose and produce oxides of nitrogen and metals.
Special Fire Fighting Procedures	Use extinguishing agent most appropriate to surrounding materials.
NFPA Rating	Health - 0 (Least), Fire - 0 (Least), Reactivity - 0 (Least)



Section 6 – Accidental 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 level C protective suit.
Containment	Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms.
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. If uncontaminated, recover and re-use.



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Tampa, Florida 33619 USA
www.trademarknitrogen.com
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813 626 1181

Section 7 – Safe Handling and Storage

Precautions for Safe Handling and Storage	Store in a well ventilated cool dry place. Containers should be kept closed and properly labeled.
Incompatibility	Combustible materials, acids and alkalis.

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
	Calium Nitrate (CaNO ₃)	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.

Personal Protective Equipment
 Eyes - Chemical safety goggles or safety glasses.
 Hands - Impervious gloves with gauntlet.
 Respiratory - None required under normal conditions. Self contained respiratory equipment should be used under spill situations.



Gloves



Goggles

or



Safety Glasses

Section 9 – Physical and Chemical Properties

Appearance and Odor	Colorless liquid with no significant odor.						
Boiling Point	220°F at 1 atmosphere (104°C)	Specific Gravity					1.465
Freezing Point	N/A	Molecular Weight					N/A
Melting Point	23° - 32°F (-5°C - 0°C)	Solubility in water					Miscible
Gallons per Ton	163.93	Evaporative Rate					N/A
Weight	12.2 lbs/gal @ 60°F	pH					5.0 - 5.4
	1.46 kg/L@ 15°C	Salt-Out Temp					Typically 0° - 5°F (-17.7°C - -15°C)
Flash Point	Not Flammable	Auto Ignition Temp	Not Flammable	Flammability Limits	N/A	LEL N/A	UEL N/A

Section 10 – Stability and Reactivity

Reactivity	Product is not reactive under normal condition.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Elevated temperatures may cause container to rupture.
Incompatible Materials	Combustible materials, acids and alkalis.
Hazardous Decomposition Products	In a fire this material may decompose and produce nitrogen oxides and metal oxides.

Section 11 – Toxicology Information

Routes of Exposure	Ingestion or skin absorption
Symptoms and Signs of Exposure	Eyes & Skin mild irritant. Inhalation of mist may irritate or burn nose, throat and lungs. Ingestion may irritate or burn throat and cause nausea or vomiting.
Long Term Effects	Prolonged skin contact may result in dermatitis (inflammation and redness of skin).
Toxicity	No limits have been set for this material.
Carcinogen	The International Agency for Research on Cancer has not classified calcium nitrate for its carcinogenic potential (IARC 1987).



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Section 12 – Ecological Information

Water Harmful to fish and other aquatic organisms.

Section 13 – Disposal Considerations

Waste Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.

Section 14 – Transport Information

Shipping This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation.

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 - No	Chronic - No
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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 (pounds)	SARA Reporting		
			302	304	313

N/A

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, Ammonium Calcium Salt, which is on the TSCA inventory list.

Section 16 – Other Information

Date of Revision May 2014 TSCA statement revised. February 2013 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.

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.



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