

Chemicals to Trade, Experience to Remember

## **Material Safety Data Sheet (MSDS)**

## MAPLE CALCIUM NITRATE

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1. Identification of the substance	Product Name Synonyms Molecular Formula Molecular Weight	: Calcium nitrate : CALCIUM NITRATE : 5Ca(NO3)2·NH4NO3·10H2O : 1080.71
2. Composition /information on ingredients	Product Name CAS No. Hazard Symbols	: Calcium Nitrate : 13477-34-4 : O
3. Hazards identification	Emergency overview Oxidizing Target organ(s) HMIS rating  NFPA rating  For additional information to toxicity, please refer to Section 11.	: Contact with combustible material may cause fire. : Blood. Central nervous system. : Health: 1 : Flammability: 0 : Reactivity: 3 : Health: 1 : Flammability: 0 : Reactivity: 3
4. First aid measures	Oral exposure Inhalation exposure Dermal exposure Eye exposure	: If swallowed, wash out mouth with water provided person is conscious. Call a physician. : If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. : In case of contact, immediately wash skin with soap and copious amounts of water. Call a physician. : In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
5. Fire fighting measures	Flash point Auto ignition temp Flammability Extinguishing media  Firefighting Protective Equipment  Specific Hazard(s)	: N/A : N/A : N/A : N/A : Suitable: Carbon dioxide, dry chemical powder, or appropriate foam. : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. : Emits toxic fumes under fire conditions. Contact



		with other material may cause fire. May accelerate combustion
6. Accidental release	Procedure in case of	:Evacuate area.
measures	leak/spill Procedure(s) of personal precaution(s) Methods for cleaning up	: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. : Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
7. Handling and storage	User Exposure Suitable Special requirements	: Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. : Keep tightly closed. Keep away from combustible materials, heat, sparks, and open flame. : Hygroscopic.
8. Exposure controls/personal protection	Engineering controls  Personal protective equipment Respiratory	Safety shower and eye bath required. Mechanical exhaust required.  : Wear dust mask.
	Hand Eye General hygiene measures	<ul><li>: Wear dust mask.</li><li>: Protective gloves.</li><li>: Chemical safety goggles.</li><li>: Wash thoroughly after handling</li></ul>
9. Physical and chemical properties	Physical State Colour Form Molecular Formula Molecular weight	:Solid :White : granular : 5Ca(No3)2.NH4NO3.10H2O : 1080.71
	pH Boiling Point Freezing/Melting Point Flash Point Decomposition Temperature	: N/A : 44°C : N/A : N/A : N/A
	Auto ignition Temperature Vapour Pressure Vapour Density Saturated Vapour Density	: N/A : N/A : N/A : N/A : 1.86 g/ml at 25 °C
	Bulk Density Odour Threshold Volatile Evaporation Rate Viscosity Surface Tension	: N/A : N/A : N/A : N/A : N/A : N/A



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	Partition Coefficient Explosion Limits Flammability Refractive Index Optical Rotation Solubility N/A = not available	: N/A : N/A : N/A : N/A : N/A : Soluble in water
10. Stability and reactivity	Stability Conditions to Avoid Hazardous Decomposition Products Hazardous Polymerization	<ul><li>: Stable</li><li>: Strong reducing agents, Strong acids</li><li>: Nitrogen oxides, Calcium oxide.</li><li>: Will not occur</li></ul>
11. Toxicological information	Skin Contact Skin Absorption  Eye Contact Inhalation  Ingestion Target organ(s) or system(s) Signs and symptoms of exposure  Toxicity data Oral Irritation data	: May causes skin irritation. : May be harmful if absorbed through the skin. : May causes eye irritation. : May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract : Harmful if swallowed. : Central nervous system. Blood. : To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. : LD50: 3900 mg/kg (rat) : Eye: 500 mg/24H (rabbit) Mild : Skin: 500 mg/24H (rabbit) Mild
12. Ecological information	No data available.	No data available.
13. Disposal considerations		Contact a licensed professional waste disposal service to dispose of this material.  Observe all federal, state, and local environmental regulations.
14. Transport information	DOT Proper Shipping Name UN#: Class Packing Group Hazard Label PIH	: Calcium Nitrate. : 1454 : 5.1 : Packing Group III : Oxidizer. : Not PIH



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