

# Material Safety Data Sheet

<b>Product name:</b>	Calcium nitrate
<b>Other Names:</b>	Nitric acid, calcium (II) salt; calcium II nitrate, tetrahydrate (1:2:4); Calcium Nitrate, 4-Hydrate; Calcium Dinitrate
<b>Chemical formula:</b>	Ca(NO <sub>3</sub> ) <sub>2</sub> 4H <sub>2</sub> O
<b>Recommended Use:</b>	Fertilizer, BLASTING Initiator
<b>Company Identification:</b>	UCN CHEMICAL Limited Korkut Reis Mah Lale Cad 13/7 Cankaya Ankara
<b>Address:</b>	
<b>Customer Centre:</b>	UCN CHEMICAL Limited
<b>Section 2: HAZARD IDENTIFICATION</b>	
<b>Emergency Overview:</b>	<b>DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED.</b>
<b>Potential Acute Health Effects</b>	
<b>Routes of entry:</b>	
<b>Target organs:</b>	
<b>Skin contact:</b>	Causes irritation to skin. Symptoms include redness, itching, and pain.
<b>Eye contact:</b>	Causes irritation, redness, and pain.
<b>Inhalation:</b>	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

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<b>Ingestion:</b>	<b>Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea</b>	
<b>Chronic Exposure:</b>	<b>No information found</b>	
<b>Explanation of carcinogenicity:</b>		
<b>Medical conditions aggravated by exposure:</b>	<b>No information found.</b>	
<b>Section 3: Composition Information</b>		
<b>INGREDIENT</b>	<b>CAS No.</b>	<b>CONTENT</b>
<b>Calcium nitrate</b>	<b>10124-37-5</b>	<b>98-100</b>
<b>Section 4: FIRST AID MEASURES</b>		
<b>Inhalation:</b>	<b>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</b>	
<b>Ingestion:</b>	<b>Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention</b>	
<b>Skin:</b>	<b>Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.</b>	
<b>Eye:</b>	<b>Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.</b>	
<b>Advice to Doctor:</b>		

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<b>Section 5: FIREFIGHTING MEASURES</b>	
<b>Flash Point:</b>	
<b>Combustion Products:</b>	
<b>Extinguishing Media:</b>	Use any means suitable for extinguishing surrounding fire
<b>Protective Equipment:</b>	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.
<b>HAZCHEM Code:</b>	
<b>Section 6: ACCIDENTAL RELEASE MEASURES</b>	
<b>Spills and Disposal:</b>	Ventilate area of leak or spill. Wear appropriate personal protective equipment. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water
<b>Protective Clothing:</b>	
<b>Environmental:</b>	

## **Section 7: HANDLING AND STORAGE**

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**Handling:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials.

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	Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product
<b>Storage:</b>	
<b>Other Information:</b>	
<b>Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION</b>	
<b>Exposure Limits:</b>	
<b>Protective Equipment:</b>	
<b>Engineering Controls:</b>	<p>A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.</p> <p>Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.</p>
<b>Hygiene Precautions:</b>	
<b>Section 9. PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance:</b>	White crystals
<b>Odour:</b>	Odourless
<b>Specific Gravity:</b>	
<b>Bulk Density:</b>	2.36
<b>pH:</b>	No information found
<b>Solubility in Water:</b>	121 g in 100 g of water
<b>Flash Point:</b>	

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<b>Melting Point:</b>	45C (113F)
<b>Other Information:</b>	
<b>Section 10: STABILITY AND REACTIVITY</b>	
<b>Stability:</b>	Unstable. Exposure to heat may result in build-up of dangerous pressures. A strong oxidizer, reacts violently upon contact with many organic substances, particularly textile and paper
<b>Hazardous Decomposition Products:</b>	Oxides of nitrogen.
<b>Conditions to Avoid:</b>	Heat, flame, ignition sources, shock and incompatibles
<b>Materials to Avoid:</b>	Combustible materials, organic materials, powdered metals, ammonia, hydrazine, reducing agents.
<b>Section 11: TOXICOLOGICAL INFORMATION</b>	
<b>ERMA Classification:</b>	
<b>Ingestion:</b>	Oral rat LD50: 3900 mg/kg. Irritation eye rabbit 500mg/24H severe
<b>Inhalation:</b>	
<b>Skin:</b>	
<b>Eye:</b>	
<b>Chronic Effects:</b>	
<b>Other Information:</b>	

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<b>Section 12: ECOLOGICAL INFORMATION</b>	
<b>ERMA Classification:</b>	
<b>Ecotoxicity:</b>	The LC50/96-hour values for fish are over 100 mg/l.
<b>Section 13: DISPOSAL INFORMATION</b>	
<b>Product Disposal::</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.
<b>Container Disposal:</b>	Dispose of container and unused contents in accordance with federal, state and local requirements.
<b>UN Number:</b>	1454
<b>Proper Shipping Name:</b>	CALCIUM NITRATE
<b>DG Class:</b>	
<b>UN Packing Group:</b>	III
<b>Other Information:</b>	