

MATERIAL SAFETY DATA SHEET

Calcium Nitrate Tetrahydrate

SECTION 1 . Product and Company Identification

Product Name and Synonym: Calcium Nitrate Tetrahydrate
Product Code: C0875
Material Uses:
Manufacturer: Science Stuff
1104 Newport Ave
Austin, TX 78753
(512) 837-6020
Entry Date : 5/29/2013
Print Date: 5/29/2013
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	2
Flammability:	0
Reactivity:	3
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

SECTION 2 HAZARD IDENTIFICATION

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Calcium Nitrate Tetrahydrate	CAS# 13477-34-4	100%	W/W	None established

SECTION 4 FIRST AID MEASURES

Heat, shock, friction, or contact with other materials may cause fire or explosion. Harmful if swallowed. Avoid breathing vapor or dust. Use adequate ventilation. Avoid contact with eyes, skin or clothes. Wash thoroughly after handling. Keep closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Water spray, Carbon dioxide, dry chemical, powder, foam.
Fire / Explosion Hazards: Negligible fire hazard when exposed to heat or flame
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Dispose of in a manner consistent with federal, local law.

SECTION 7 HANDLING AND STORAGE

Store away from incompatible materials. Store in a tightly closed container at temperatures not exceeding 39 deg.F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: NIOSH Approved Gloves
Eye Protection: Goggles and Face Shield
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	110°F	Percent Volatile by Volume:	N/A
Boiling Point:	270°F	Evaporation Rate	N/A
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	N/A
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	N/A
Appearance /Odors:	White deliquescent solid	Upper Flamm. Limit in Air	N/A
Flash Point:	N/A		
Specific Gravity:	1.860		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Avoid contact with incompatible materials.
Materials to Avoid: Combustibles, metals, nitrates, reductants, organics, esters, citric acid, tin chloride.
Hazardous Decomposition Products: Nitric oxides may be released in fire.
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

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SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Calcium Nitrate, 5.1, UN1454, PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

SECTION 16 Additional Information

May cause redness and pain to eyes and skin. Ingestion could cause abdominal cramps and possible methemoglobinemia. Conditions aggravated/target organs: Persons with pre-existing conditions may be more susceptible.

Flammability

Health

Reactivity

Revisions

NFPA

0.2

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