

# MATERIAL SAFETY DATA SHEET

Calcium Chloride Dihydrate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Calcium Chloride Dihydrate  
Product Code: C0632  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 3/20/2013  
Print Date: 3/20/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	0
Reactivity:	1

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

## SECTION 2 HAZARD IDENTIFICATION

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Calcium Chloride Dihydrate	CAS# 10035-04-8	100%	W/W	TXDS: LD• <input type="checkbox"/> (rat): 1.4 g/Kg

## SECTION 4 FIRST AID MEASURES

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container 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: Any means suitable for extinguishing surrounding fire  
Fire / Explosion Hazards: None  
Fire Fighting Procedure: Use any means suitable for extinguishing surrounding fire. Use water spray to cool fire exposed containers.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Calcium Chloride Dihydrate

Wear Protective equipment. Sweep up, place in a bag and hold for waste disposal.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Chemical Resistant Gloves

Eye Protection: Safety Goggles

Other Protective Equipment: Use safe laboratory handling procedures.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	176° C	Percent Volatile by Volume:	Information not available
Boiling Point:	> 1600° C	Evaporation Rate	Information not available
Vapor Pressure:	0.01 mm 20° C	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	White Flakes / no odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Information not available		
Specific Gravity:	1.850		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability:	Stable
Conditions to Avoid:	Moisture
Materials to Avoid:	Water, Aluminum, Zinc, Brass Methyl Vinyl Ether
Hazardous Decomposition Products:	Chlorine and hydrogen Chloride fumes
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

Calcium Chloride Dihydrate

**SECTION 14            Transport Information**

DOT Classification:            Not Regulated

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**

Conditions aggravated/Target organs: None known. Acute:Irritation to skin, eyes, lungs, mucous membranes, and GI tract. Coughing. Chronic: None known. Do not breath dust, avoid contact with eyes, skin, and clothing. Wash thoroughly after handling and keep container tightly closed.

Flammability

Health

Reactivity

**Revisions**

**NFPA**

0.1
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