

# MATERIAL SAFETY DATA SHEET

Calcium Sulfate

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Calcium Sulfate  
Product Code: C0993  
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:	0			
Flammability:	0			
Reactivity:	0			
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.

Physical state: Solid. [Powder]  
Odor: Odorless.  
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency overview:

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.  
MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: LUNGS.

Avoid contact with skin and clothing. Avoid breathing dust.  
Keep container closed.  
Use only with adequate ventilation. Wash thoroughly after handling.

Routes of entry:  
Inhalation. Ingestion.

Potential acute health effects:

Eyes: Moderately irritating to eyes.  
Skin: Moderately irritating to the skin.  
Inhalation: Irritating to respiratory system.  
Ingestion: Ingestion may cause gastrointestinal irritation and diarrhea.  
Carcinogenicity: No known significant effects or critical hazards.  
Mutagenicity: No known significant effects or critical hazards.  
Teratogenicity/ Reproductive toxicity: No known significant effects or critical hazards.

Medical conditions aggravated by over-exposure:  
Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged exposure to the substance can produce lung damage.  
Repeated or prolonged exposure to the substance can produce target organs damage.  
Repeated exposure of the eyes to a low level of dust can produce eye irritation.

## SECTION 3 MIXTURE COMPONENTS

Calcium Sulfate

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Calcium Sulfate	CAS# 10101-41-4	100%	W/W	ACGIH TWA 10 mg/m <sup>3</sup> (nuisance particulate)

**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: Wash exposed area with soap and water. If irritation persists, 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 Known.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Ventilate area, Sweep up and place in suitable (fiberboard) containers for reclamation or later disposal.

Personal precautions: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up: If emergency personnel are unavailable, vacuum or carefully scoop up material and place in an appropriate container for disposal by incineration. Avoid creating dusty conditions and prevent wind dispersal.

**SECTION 7 HANDLING AND STORAGE**

Keep in tightly closed container

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

## Calcium Sulfate

Product name - United States –

Calcium Sulfate, Dihydrate

ACGIH TLV (United States, 1/2007).

TWA: 10 mg/m<sup>3</sup> 8 hour(s). Form: Inhalable fraction

Consult local authorities for acceptable exposure limits.

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Personal Protection

Eyes: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Recommended:

safety glasses with side-shields

Skin: Personal protective equipment for the body should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Body recommended:

lab coat

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Recommended: nitrile rubber

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	>120° C	Percent Volatile by Volume:	N/A
Boiling Point:	N/A	Evaporation Rate	N/A
Vapor Pressure:	N/A	Evaporation Standard	
Vapor Density:	N/A	Auto Ignition Temp	Not applicable
Solubility in Water:	slight	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	White powder	Upper Flamm. Limit in Air	Not applicable
Flash Point:	N/A		
Specific Gravity:	N/A		

Calcium Sulfate

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable  
Conditions to Avoid: None known  
Materials to Avoid: None  
Hazardous Decomposition Products: Oxides of sulfur  
Hazardous polymerization: Will Not Occur  
Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

Chronic effects on humans: May cause damage to the following organs: lungs  
Other toxic effects on humans: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).  
Specific effects  
Carcinogenic effects: : No known significant effects or critical hazards  
Mutagenic effects: No known significant effects or critical hazards  
Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards  
Sensitization  
Ingestion: No known significant effects or critical hazards  
Inhalation: Moderately irritating to respiratory system.  
Eyes: Moderately irritating to eyes.  
Skin: Moderately irritating to the skin

**SECTION 12 Ecological Information**

Environmental effects : No known significant effects or critical hazards.  
Products of degradation: These products are sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.)  
Some metallic oxides.  
Toxicity of the products of biodegradation:  
The product itself and its products of degradation are not toxic.

**SECTION 13 Disposal Considerations**

Waste disposal: the generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

**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**

United States

HCS Classification:  
Irritating material  
Target organ effects

U.S. Federal regulations:

United States inventory (TSCA 8b): listed  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notifications: No products were found.  
SARA 302/304/311/312 hazardous chemicals: Calcium Sulfate, Dihydrate

Calcium Sulfate

SARA 311/312 MSDS distribution- Chemical inventory- hazard identification: Calcium Sulfate, Dihydrate  
Immediate (acute) health hazard, Delayed (chronic) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substance: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substance: No products were found.

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations: No products were found

Canada  
WHMIS (Canada) : Not controlled under WHMIS (Canada).

CEPA DSL/ CEPA NDSL : CEPA DSL:  
No products were found  
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16 Additional Information**

Flammability

Health

Reactivity

**Revisions**

**NFPA**

0.1

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