

# Calcium Sulfate, Dihydrate

MSDS # 159.00

## Section 1: Product and Company Identification

### Calcium Sulfate, Dihydrate

**Synonyms/General Names:** Gypsum

**Product Use:** For educational use only

**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.

#### 24 Hour Emergency Information Telephone Numbers

**CHEMTREC (USA): 800-424-9300**

**CANUTEC (Canada): 613-424-6666**

ScholarAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.ScholarARchemistry.com

## Section 2: Hazards Identification

White powder, no odor

This material is not considered hazardous.

Target organs: N/A

HMIS (0 to 4)

Health	0
Fire Hazard	0
Reactivity	0

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) if used properly.

## Section 3: Composition / Information on Ingredients

Calcium Sulfate, Dihydrate (10101-41-4), >90%

## Section 4: First Aid Measures

*Always seek professional medical attention after first aid measures are provided.*

**Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.

**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.

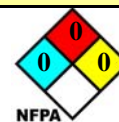
**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.

## Section 5: Fire Fighting Measures

Non-flammable solid. When heated to decomposition, emits toxic fumes of sulfur oxides and calcium oxides.

**Protective equipment and precautions for firefighters:** Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



## Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Sweep up spill and place in sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

## Section 7: Handling and Storage

Green

**Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

**Storage:** Store in General Storage Area [Green Storage] with other items with no specific storage hazards. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

## Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with a dust cartridge. Exposure guidelines: Calcium Sulfate: OSHA PEL: 5 mg/m<sup>3</sup>(total dust)15 mg/m<sup>3</sup>(respirable fraction), ACGIH: TLV: 10 mg/m<sup>3</sup>, STEL: Not Available.

**Section 9: Physical and Chemical Properties**

<b>Molecular formula</b>	CaSO <sub>4</sub> ·2H <sub>2</sub> O.	<b>Appearance</b>	White powder.
<b>Molecular weight</b>	172.17.	<b>Odor</b>	None.
<b>Specific Gravity</b>	2.32 g/mL @ 20°C.	<b>Odor Threshold</b>	N/A.
<b>Vapor Density (air=1)</b>	N/A.	<b>Solubility</b>	Slightly soluble in water .
<b>Melting Point</b>	1450°C .	<b>Evaporation rate</b>	N/A ( <i>Butyl acetate = 1</i> ).
<b>Boiling Point/Range</b>	N/A.	<b>Partition Coefficient</b>	N/A ( <i>log P<sub>ow</sub></i> ).
<b>Vapor Pressure (20°C)</b>	N/A.	<b>pH</b>	N/A.
<b>Flash Point:</b>	N/A.	<b>UEL</b>	N/A.
<b>Autoignition Temp.:</b>	N/A.	<b>LEL</b>	N/A.

N/A = Not available or applicable

**Section 10: Stability and Reactivity**

Avoid heat and moisture.

**Stability:** Stable under normal conditions of use and storage.**Incompatibility:** Acids**Shelf life:** Indefinite if stored properly.**Section 11: Toxicology Information****Acute Symptoms/Signs of exposure:** *Eyes:* Redness, tearing, itching, burning, conjunctivitis. *Skin:* Redness, itching.**Ingestion:** Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. **Inhalation:** Irritation of mucous membranes, coughing, wheezing, shortness of breath,**Chronic Effects:** No information found.**Sensitization:** none expected*Calcium Sulfate:* LD50 [oral, rat]; N/A; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A*Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.***Section 12: Ecological Information****Ecotoxicity (aquatic and terrestrial):** Ecological impact has not yet been determined.**Section 13: Disposal Considerations**

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

**Section 14: Transport Information**

<b>DOT Shipping Name:</b>	Not Regulated.	<b>Canada TDG:</b>	Not Regulated.
<b>DOT Hazard Class:</b>	N/A.	<b>Hazard Class:</b>	N/A.
<b>Identification Number:</b>	N/A.	<b>UN Number:</b>	N/A.

**Section 15: Regulatory Information****EINECS:** Not listed.**WHMIS Canada:** Not WHMIS controlled.**TSCA:** All components are listed or are exempt.**California Proposition 65:** Not listed.*The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.***Section 16: Other Information****Current Issue Date:** January 23, 2009

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