

## Product and Company Identification

Chemical Name: Gypsum

Chemical Formula:  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

Molecular Weight: 172.2

Trade Name: Gypsum

Synonyms: Calcium sulfate dihydrate, Gypsum stone, hydrated calcium sulfate, mineral white

Identification NO.: None

## Composition/Information of Ingredients

Components Chemical Name: Calcium Sulfate, Dihydrate

% by weight (approx.): 49-99.9

MSHA/OSHA PEL: (T) 15 mg/m<sup>3</sup>, (R) 5 mg/M<sup>3</sup>

ACGIH TLV-TWA: (I) 10mg/m<sup>3</sup>

(T)= Total dust      (R)= Respirable dust      (I)= Inhalable dust

## Hazards Identification

White powder or colorless, crystalline solid (Note: May have blue, gray, or reddish tinge) Odorless

Health Effects: The information below represents an overview of health effects caused by overexposure to one or more components in gypsum. The individual effects are described in Section: Toxicological Information

Primary Routes of Exposure: Inhalation, Ingestion

Eye Contact: Direct contact with dust may cause irritation by mechanical abrasion.

Skin Contact: Direct contact may cause irritation by mechanical abrasion.

Skin Absorption: Not expected to be significant route of exposure.

Ingestion: If ingested, intestinal obstruction may occur if the material hardens, especially in the pyloric region.

Inhalation: Dusts may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures of appropriate exposure limits.

#### Medical Conditions Aggravated by Exposure

Inhaling respirable dust may aggravate existing respiratory system disease(s) and/or dysfunctions. Exposure to dust may aggravate existing skin and/or eye conditions. Smoking and obstructive/restrictive lung diseases may also exacerbate the effects of excessive exposure to this product.

#### First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a minimum 15 times. Warm water is recommended, but cold water may be used.

Skin: In case of skin contact, immediately rinse skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean before reuse. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting. If conscious, have person drink plenty of water. Seek medical attention or contact poison control center immediately.

Inhalation: If a person breathes large amounts of this product, move the exposed person to fresh air at once. Other measures are usually unnecessary.

#### Fire Fighting Measures

Flashpoint: Not flammable

Flammable Limits in Air: Not flammable

Extinguishing Agent: None required

Unusual Fire and Explosion Hazard:

None

#### Accidental Release Measures

*Steps to be taken in case of material is released or spilled*

Sweep or vacuum spilled material into waste container for disposal. Avoid creating excessive dust. Wear approved respirators if necessary. Do not wash down drains, this material may plug drains.

None of the components in this product are subject to the reporting requirements of Title III of SARA, 1986, and 40 CFR 372

## **Handling and Storage**

Be sure proper ventilation and respiratory and eye protection are used under dusty conditions. Dew point conditions or other conditions causing presence of moisture will harden gypsum during storage. Excessive particulate concentrations in work place air must be avoided even though it is not inert or toxic.

## **Exposure Control/Personal Protection**

### *Engineering Controls*

Ventilation: Use local exhaust, general ventilation or natural ventilation adequate to maintain below appropriate limits. If a person breathes large amounts of this material, move the exposed person to fresh air at once; other measures are usually unnecessary.

### *Eye/Face Protection*

Safety glasses with the side shields should be worn as minimum protection. Dust goggles should be worn when excessively dusty conditions are present or anticipated.

### *Skin Protection*

Workers should wear close-fitting working clothes of dust tight material.

### *Respiratory Protection*

NIOSH/MSHA approved respirators for nuisance dust.

## **Physical and Chemical Properties**

Specific Gravity: 2.17-2.32

Boiling Point: N/A

Vapor Density: N/A

Vapor Pressure: N/A

% Volatile by Volume: 0%

Evaporate Rate: N/A

Water Solubility: 0-.2% at 40 degrees C

Stability: Stable

Conditions to Avoid: Items listed in incompatibility

Incompatibility (Materials to Avoid): Aluminum (at high temperatures), diazomethane

Hazardous Decomposition Products: When heated to high temperatures gypsum may emit toxic fumes of oxides, sulfur, and calcium

### **Toxicological Information**

Target Organs: Eyes, Skin, Respiratory System

Acute Effect: Calcium sulfate dust has an irritant action on mucous membranes of the respiratory tract and eyes. There have been reports of conjunctivitis, chronic rhinitis, laryngitis, pharyngitis, impaired sense of smell and taste, bleeding from the nose and reactions of tracheal membranes in exposed workers.

Chronic Effects: None

### **Ecological Information**

None Available

### **Transport Information**

DOT Hazard Classification: None

Placard Required: None

Label Required: Label as required by the OSHA Hazard Communication Standard [29CFR 1910.1200(f)], and applicable state and local regulations

### **Regulatory Information**

FDA: Product is manufactured for use as building construction material, agricultural applications, or other industrial applications. As such, FDA regulations are not deemed applicable

### **Other Information**

ACGIH: American Conference of Governmental Industrial Hygienists

CFR: US Code of Federal Regulations

DOT: Department of Transportation

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**Material Safety Data Sheet**  
*Provided for health and safety information*  
**Effective Date: 4/6/2016**

IARC: International Agency for Research on Cancer

OSHA: Occupational Safety and Health Administration, US Department of Labor

FDA: Food and Drug Administration