



MATERIAL SAFETY DATA SHEET
Gypsum (Calcium Sulfate Dihydrate)

Section I: PRODUCT IDENTIFICATION

PRODUCT: Gypsum
CHEMICAL FAMILY: Gypsum (Calcium Sulfate Dihydrate, $\text{CASO}_4 \cdot 2\text{H}_2\text{O}$)

Section II: INGREDIENTS

MATERIAL	%	TLV (MG/M ³)	PEL (MG/M ³)	CAS NUMBER
Calcium Sulfate Dihydrate	85-98	10	15(T)5(R)	10101-41-4
Limestone	0-10	10	15(T)/5(R)	1317-65-3
Crystalline Silica	<5	0.1(R)	0.1(R)	14808-60-7

(T) - Total (R) - Respirable

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:

Health: 0
Fire: 0
Reactivity: 0



HMIS Ratings:

Health: 0
Fire: 0
Reactivity: 0

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

0 = Minimal Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = Serious Hazard
4 = Severe Hazard

Personal Protection: Use eye and skin protection. Use NIOSH/MSHA—approved respiratory protection when necessary.

Section III: PHYSICAL DATA

Appearance and Odor: Off white to gray color. An odorless solid.
Melting Point: 1450°C - decomposes
Specific Gravity: 2.32 - 2.96
Solubility in Water: 0.26%

Section IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Not combustible
Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None



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Section V: HEALTH HAZARD DATA

This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation can occur with dust exposure.

EFFECTS OF OVEREXPOSURE:

ACUTE:

EYES: Direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

SKIN: No toxic effects from powdered gypsum are noticed where air contains contaminate to excess. Frequent exposure may have a drying effect on the skin. Possible itching and irritation may be experienced.

INHALATION: Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing, and nasal irritation. If respiratory symptoms persist, consult physician.

INGESTION: Gypsum is non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region.

CHRONIC:

INHALATION: None known for gypsum. Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush thoroughly with water for 15 minutes to remove particles. If irritation persists, consult physician.

SKIN: Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing.

INHALATION: Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however, if conditions warrant, call physician.

INGESTION: Ingestion of sufficient quantity may result in mechanical obstruction of the gut. If there is any discomfort, consult physician.

TARGET ORGANS: Eyes, skin, lungs, and respiratory system.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema, and asthma.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes, and skin contact.

CARCINOGENICITY OF INGREDIENTS:

MATERIAL	IARC	NTP
Crystalline Silica	Group 1	Anticipated

In June, 1997, the International Agency for Research on Cancer (IARC) classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).



Michigan Gypsum

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Date: March 30, 2007

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Section VI: REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY:	Acids
HAZARDOUS POLYMERIZATION:	Will not occur
HAZARDOUS DECOMPOSITION:	Above 1450°C could produce SO ₂ & CaO

Section VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Avoid creating excessive dust. Wear appropriate protective equipment. Scoop up material from spillage into a waste container for disposal, or if not contaminated by foreign material it may be reclaimed.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state, and federal regulations. Not a hazardous waste.

Section VIII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Not typically necessary under normal conditions of use. Avoid inhalation of dust. Dust created from mixing or handling may cause eye, nose, throat, or upper respiratory irritation. Wear a NIOSH/MSHA - approved dust respirator if TLV is exceeded and/or when dusty conditions exist. Provide general ventilation and/or local exhaust ventilation to meet TLV requirements.

PROTECTIVE EQUIPMENT:

Gloves or protective clothing are usually not necessary, but may be desirable in specific work situations. Wear adequate clothing to minimize drying of skin. Wear safety glasses or goggles to avoid irritation of the eye.

Section IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid creating dust. Keep dry to preserve usefulness. Minimize exposures in accordance with good industrial hygiene practice. During handling wear the appropriate respiratory, eye, and skin protection if warranted per environmental conditions.

CAUTIONS!

Dust may cause eye, skin, nose, throat, or upper respiratory irritation. Avoid inhalation of dust and eye contact. Provide good general ventilation and/or local exhaust to reduce dust exposure. If dusty conditions exist, use NIOSH/MSHA - approved respiratory protection. Wear eye protection to avoid particulate irritation of eye. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Product safety information (989) 792-8734.

KEEP OUT OF REACH OF CHILDREN.