

# Material Safety Data Sheet

## Section 1: PRODUCT AND COMPANY INFORMATION

**Product Name(s):** Lafarge Trommelized Gypsum (gypsum).

**Product Identifiers:** Trommelized Gypsum.

**Manufacturer:**  
Lafarge North America Inc.  
12018 Sunrise Valley Drive, Suite 500  
Reston, VA 20191

**Information Telephone Number:**  
703-480-3600 (9am to 5pm EST)

**Emergency Telephone Number:**  
1-800-451-8346 (3E Hotline)

**Product Use:** Trommelized gypsum is used for agricultural purposes and as an alternative raw material in manufacturing construction materials.

**Note:** This MSDS covers many types of Trommelized gypsum. Individual composition of hazardous constituents will vary between types of Trommelized gypsum.

## Section 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Percent (By Weight)	CAS Number	OSHA PEL -TWA (mg/m <sup>3</sup> )	ACGIH TLV-TWA (mg/m <sup>3</sup> )	LD <sub>50</sub> Rat, Oral	LC <sub>50</sub> Rat, Inhalation
Gypsum* (Calcium Sulfate)	70-90	7778-18-9	15 (T), 5 (R)	10 (T)	NA	NA
Calcium Carbonate*	60-65	1317-65-3	15 (T), 5 (R)	3 (R); 10 (T)	NA	NA
Cellulose	0-10	9004-34-6	15 (T), 5 (R)	10 (T)	>5 g/kg	>5.8 g/m3/4H
Crystalline Silica (as Quartz)	0-10	14808-60-7	[(10) / (%SiO <sub>2</sub> +2)] (R); [(30) / (%SiO <sub>2</sub> +2)] (T)	0.025 (R)	NA	NA
Vermiculite	0-10	1318-00-9	NA	NA	NA	NA
Calcium Oxide	0-5	1305-78-8	5 (T)	2 (T)	3.1 g/kg (I, M)	NA
Potassium sulfate	0-5	7778-80-5	NA	NA	6.6 g/kg	NA
Starch	0-5	9005-25-8	15 (T), 5 (R)	10 (T)	6.6 g/kg (I, M)	NA
Mica *	2-3	12001-26-2	3 (R)	3 (R)	NA	NA
Fiberglass	0-2	65997-17-3	15 (T), 5 (R)	5 (I)	NA	NA
Paraffin Wax	0-2	8002-74-2	NA	2 (T)	NA	NA
Boric Acid	0-1	10043-35-3	NA	NA	2.7 g/kg	NA

Note: Exposure limits for components noted with an \* contain no asbestos and <1% crystalline silica

(I, M) = LD<sub>50</sub> Intraperitoneal and Mouse

## Section 3: HAZARD IDENTIFICATION

	<b>WARNING</b>	Respiratory Protection Eye Protection Gloves
	<p>Toxic - Harmful by inhalation. (Contains crystalline silica)</p> <p>Irritant: Causes eye, skin and inhalation irritation</p> <p>Use proper engineering controls, work practices, and Personal Protective Equipment (PPE) to prevent exposure to dust.</p> <p>Read MSDS for details.</p>	

**Section 3: HAZARD IDENTIFICATION (continued)**

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**Emergency Overview:** Trommelized gypsum is a solid, white or off-white, powder. It is not combustible or explosive. A single, short-term exposure to the dry powder presents little or no hazard. Trommelized gypsum has a slight sulfur odor. When stockpile is wet for prolonged periods, this product may release toxic hydrogen sulfide (H<sub>2</sub>S).

**Potential Health Effects:**

**Eye Contact:** Airborne dust may cause immediate or delayed irritation or inflammation. Eye contact with large amounts of gypsum can cause moderate eye irritation, redness, and burning. Eye exposures require immediate first aid to prevent damage to the eye.

**Skin Contact:** Trommelized gypsum dust may cause dry skin, discomfort, dermatitis and irritation.

Dermatitis: Trommelized gypsum is capable of causing dermatitis by irritation. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Irritant dermatitis is caused by the physical properties of gypsum including moisture and abrasion.

**Inhalation (acute):** Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure. Hydrogen sulfide and other sulfur-containing gases can evolve from this product when a stockpile is wet for prolonged periods. Exposure to fumes or vapors may cause irritation of the nose and throat, and symptoms such as headache, dizziness, loss of coordination, and drowsiness.

**Inhalation (chronic):** Risk of injury depends on duration and level of exposure.

Silicosis: This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. See Note to Physicians in Section 4 for further information.

This product contains mica. Prolonged and repeated inhalation of respirable mica dust may cause lung disease (pneumoconiosis). The extent and severity of lung injury depends on duration and level of exposure.

Carcinogenicity: Gypsum is not listed as a carcinogen by IARC or NTP; however, gypsum contains trace amounts of crystalline silica that is classified by IARC and NTP as known human carcinogen.

Autoimmune Disease: Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys.

Tuberculosis: Silicosis increases the risk of tuberculosis.

Renal Disease: Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

**Ingestion:** Do not ingest gypsum. Ingestion of small quantities of gypsum is not known to be harmful; ingesting large quantities can cause intestinal distress.

**Medical Conditions Aggravated by Exposure:** Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure.

**Section 4: FIRST AID MEASURES**

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**Eye Contact:** Rinse eyes thoroughly with water for at least 15 minutes, including under lids, to remove all particles. Seek medical attention for abrasions.

**Skin Contact:** Wash with cool water and a pH neutral soap or a mild skin detergent. Seek medical attention for rash or irritation.

**Inhalation:** Move person to fresh air. Seek medical attention for discomfort, if coughing or other symptoms do not subside.

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

**Note to Physician:** The three types of silicosis include:

- Simple chronic silicosis – which results from long-term exposure (more than 20 years) to low amounts of respirable crystalline silica. Nodules of chronic inflammation and scarring provoked by the respirable crystalline silica form in the lungs and chest lymph nodes. This disease may feature breathlessness and may resemble chronic obstructive pulmonary disease (COPD).
- Accelerated silicosis – occurs after exposure to larger amounts of respirable crystalline silica over a shorter period of time (5-15 years). Inflammation, scarring, and symptoms progress faster in accelerated silicosis than in simple silicosis.
- Acute silicosis – results from short-term exposure to very large amounts of respirable crystalline silica. The lungs become very inflamed and may fill with fluid, causing severe shortness of breath and low blood oxygen levels.

Progressive massive fibrosis may occur in simple or accelerated silicosis, but is more common in the accelerated form. Progressive massive fibrosis results from severe scarring and leads to the destruction of normal lung structures.

**Section 5: FIREFIGHTING MEASURES**

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<b>Flashpoint &amp; Method:</b>	Non-combustible	<b>Combustion Products:</b>	Above 825° C decomposed to calcium oxide and sulfur dioxide.
<b>General Hazard:</b>	Avoid breathing dust.	<b>Firefighting Equipment:</b>	Gypsum poses no fire-related hazard. A SCBA is recommended to limit exposures to combustion products when fighting any fire.
<b>Extinguishing Media:</b>	Use extinguishing media appropriate for surrounding fire.		

**Section 6: ACCIDENTAL RELEASE MEASURES**

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**General:** Place spilled material into a container. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin.. Wear appropriate protective equipment as described in Section 8.

**Waste Disposal Method:** Dispose of Trommelized gypsum according to Federal, State, Provincial and Local regulations.



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**Section 10: STABILITY AND REACTIVITY**

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- Stability:** Stable. Keep dry until use. These products may react with water, resulting in a slight release of heat, depending on the amount of lime (Calcium oxide) present. Avoid contact with incompatible materials.
- Incompatibility:** The components of Trommelized gypsum are incompatible with strong oxidizers, strong acids, diazomethane, ammonium salts, aluminum, phosphorus, and fluorine.
- Hazardous Polymerization:** None.
- Hazardous Decomposition:** Thermal decomposition may yield sulfur oxides, and calcium oxide fumes (above 825°C).

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**Section 11 and 12: TOXICOLOGICAL AND ECOLOGICAL INFORMATION**

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For questions regarding toxicological and ecological information refer to contact information in Section 1.

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**Section 13: DISPOSAL CONSIDERATIONS**

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Dispose of waste and containers in compliance with applicable Federal, State, Provincial and Local regulations.

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**Section 14: TRANSPORT INFORMATION**

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This product is not classified as a Hazardous Material under U.S. DOT or Canadian TDG regulations.

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**Section 15: REGULATORY INFORMATION**

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- OSHA/MSHA Hazard Communication:** This product is considered by OSHA/MSHA to be a hazardous chemical and should be included in the employer's hazard communication program.
- CERCLA/SUPERFUND:** This product is not listed as a CERCLA hazardous substance.
- EPCRA SARA Title III:** This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.
- EPRCA SARA Section 313:** This product contains none of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
- RCRA:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.
- TSCA:** Gypsum and crystalline silica is exempt from reporting under the inventory update rule.
- California Proposition 65:** Crystalline silica (airborne particulates of respirable size) is known by the State of California to cause cancer.
- WHMIS/DSL:** Products containing crystalline silica and calcium carbonate are classified as D2A, E and are subject to WHMIS requirements.



**Section 16: OTHER INFORMATION**
**Abbreviations:**

>	Greater than	NA	Not Applicable
ACGIH	American Conference of Governmental Industrial Hygienists	NFPA	National Fire Protection Association
CAS No	Chemical Abstract Service number	NIOSH	National Institute for Occupational Safety and Health
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act	NTP	National Toxicology Program
		OSHA	Occupational Safety and Health Administration
CFR	Code for Federal Regulations	PEL	Permissible Exposure Limit
CL	Ceiling Limit	pH	Negative log of hydrogen ion
DOT	U.S. Department of Transportation	PPE	Personal Protective Equipment
EST	Eastern Standard Time	R	Respirable Particulate
HEPA	High-Efficiency Particulate Air	RCRA	Resource Conservation and Recovery Act
HMIS	Hazardous Materials Identification System	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	T	Total Particulate
		TDG	Transportation of Dangerous Goods
LC <sub>50</sub>	Lethal Concentration	TLV	Threshold Limit Value
LD <sub>50</sub>	Lethal Dose	TWA	Time Weighted Average (8 hour)
mg/m <sup>3</sup>	Milligrams per cubic meter	WHMIS	Workplace Hazardous Materials Information System
MSHA	Mine Safety and Health Administration		

This MSDS (Sections 1-16) was revised on March 1,2011.

An electronic version of this MSDS is available at: [www.lafarge-na.com](http://www.lafarge-na.com) under the Sustainability section.

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