

MAHESHWARI GYPSUM



MATERIAL SAFETY DATA SHEET

Revision Date: 29/03/2022

MSDS

Print Date: 29/03/2022 Version: 1.0

SECTION 1 - CHEMICAL PRODUCT AND IDENTIFICATION

Product Name: **Maheshwari Gypsum**

Trade Name: **Maheshwari Gypsum**
Next to Sanjay Marble, Mohane Road,
Shahad (West), Pin – 421103

Mob. Number: **9321026333**

Email: maheshwarigypsumcompany@gmail.com

Visit us at: www.maheshwarigypsum.com

Section 2 - HAZARD IDENTIFICATION

EMERGENCY OVERVIEW AWAREING! This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.

POTENTIAL HEALTH EFFECTS

(See Section 11 for more information)

ACUTE:

Inhalation

Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, 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. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.



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Eyes Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Skin None known.

Ingestion None known.

CHRONIC:

Inhalation Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

Eyes None known.

Skin None known.

Ingestion None known.

TARGET ORGANS: Eyes, skin and respiratory system.

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

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S)

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product Formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

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IARC – International Agency for Research on Cancer: 1- Carcinogenic to humans;
2A – Probably carcinogenic to humans;
2B – Possibly carcinogenic to humans;
3 - Not classifiable as a carcinogen;
4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept.,
Public Health Service, NIH/NIEHS): 1-Known to be carcinogen;
2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists:
A1 – Confirmed human carcinogen;
A2 – Suspected human carcinogen;
A3 – Animal carcinogen;
A4 - Not classifiable as a carcinogen;
A5 – Not suspected as a human carcinogen

“Chemicals known to the State of California to Cause Cancer”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen.
The weight percent of crystalline silica given represents total quartz and not the
Reparable fraction. The weight percent of reparable silica has not been
Measured in this product.

POTENTIAL ENVIRONMENTAL EFFECTS:

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants
Showed no toxic effect. (See Section 12 for more information.)

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SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Plaster of Paris ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$)	>99	26499-65-0
Crystalline Silica	<5	14808-60-7 [^]

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

[^]The weight percent for silica represents total quartz and not the reparable fraction.

SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES:

Inhalation	Remove to fresh air. Leave the area of exposure and remain away until Coughing and other symptomssubside. Other measures are usually not Necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. To prevent Mechanical irritation, flush thoroughlywith water for 15 minutes. If irritation persists, consult physician.
Skin	To prevent the drying effect of plaster of Paris, 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 appropriateaction to prevent infection and Promote healing. If irritation persists, consult physician.
Ingestion	Plaster of Paris hardens and, if ingested, may result in obstruction of the gut, Especially the pyloricregion. Drinking gelatin solutions or large volumes of Water may delay setting.

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MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:

Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN:

Treatment should be directed at the control of symptoms and the clinical condition.

Section 5 - FIRE FIGHTING MEASURES

General Fire Hazards	Not expected to burn.		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide(SO ₂).		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined	Rate of Burning	Not Applicable
Lower Flammable Limit (LFL)	Not Determined		

Section 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT:

No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP:

Use normal clean up procedures. No special precautions.

DISPOSAL:

Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

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Section 7 – HANDLING AND STORAGE

HANDLING: Avoid dust contact with eyes and skin. Wear the appropriate eye and skin Protection against dust (See Section 8). Minimize dust generation and Accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (See Sections 2 and 8). Use good safety and industrial hygiene practices.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture And incompatibilities (see Section 10). As a dry powder, dew point Conditions or other conditions causing presence of liquid will harden plaster Of Paris during storage.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)
Plaster of Paris (CaSO ₄ •½H ₂ O)	>99	10	15 (T) / 5 (R)
Crystalline Silica	<5	0.025 (R)	0.1 (R)

T)–Total; (R)–Reparable; (NE)-Not Established; (C)-Ceiling; (STEL)-
Short-term exposure limit (F)-Fume; (Du)-Dust; (M)-Mist
Ppm-part per million; f/cc-fiber per cubic centimeter; mppcf-
Million particles per cubic foot

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below Permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels Below permissible exposure limits.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges When dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be Followed whenever workplace conditions warrant a respirator's use. If engineering

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controls are not possible, wear a properly fitted NIOSH/MSHA-approved Particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face

Wear eye protection, safety glasses or goggles, to avoid possible eye contact.

Skin

Wear gloves and protective clothing to prevent repeated or prolonged skin contact.

General

Selection of Personal Protective Equipment will depend on environmental working Conditions and operations.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Plaster of Parts B-hemihydrate	Retarded Hemihydrate gypsum plaster	Anhydrous Gypsum Plaster	Keens Plaster
Loss on ignition percent by mass	Not greater than 9 & less than 4	Not greater than 9 & less than 4	3.0 Max	2.0 Max
Sulphur Trioxide (SO ₃) percent by mass (Min)	35.0	35.0	40.0	47.0
Calcium Oxide (CaO) percent by mass (Min)	2/3 of So ₃ content	2/3 of So ₃ content	2/3 of So ₃ content	2/3 of So ₃ content
Soluble Magnesium salts, expressed as percentage of mgo (Max)	0.3	0.3	0.3	0.3
Soluble sodium salts, expressed as percentage of Na ₂ O (Max)	0.3	0.3	0.3	0.3
Free Lime (Percent) (Min)		3		

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As furnished by the customer,

Note: 1 The result relate only to the sample tested.

- 2 Report shall not be reproduced, except in full, without the written approval of the lab.
- 3 Any correction invalidates this report.
- 4 + applicable to metal lathing plaster.

Section 10 – CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with acids, water, and high humidity.
INCOMPATIBILITY	Acids. Exposure to water and acids must be supervised because The reactions are vigorous and produce large amounts Of heat.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Above 1450° C - calcium oxide (CaO) and sulfur dioxide (SO ₂).

Section 11 – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:	The acute oral toxicity study [OECD TG 420] of calcium sulfate dehydrate Showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD50 value was more than 2,000- mg/kg bow. for female Rats. Gypsum paste applied experimentally to the eyes of rabbits was not an Irritant. Gypsum dust particulate has shown an irritant action on mucous
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Membranes of the respiratory tract and eyes. The sulfate ion has caused Gastro-intestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate Failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

CHRONIC EFFECTS / CARCINOGENICITY:

Plaster of Paris: Testing of dust from USG plaster of Paris has not detected Repairable crystalline silica. Crystalline Silica: Exposures to repairable crystalline silica are not expected during the normal use of this product; however, Actual levels must be determined by workplace hygiene testing. The weight percent of repairable crystalline silica may not have been measured in This product. Prolonged and repeated exposure to airborne free repairable Crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and Duration. In June, 1997, 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).

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Section 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Toxicity studies
Eco toxicity value Performed with fish, aquatic invertebrates and aquatic plants
Showed no toxic effect.

Section 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local
Regulations Never discharge directly into sewers or surface waters.
Consult with environmental regulatory agencies for guidance on
Acceptable disposal practices. Slurry may plug drains. Trace amounts
Of Residue can be flushed to a drain, using plenty of water.

Section 14 – TRANSPORT INFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

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SECTION 15 REGULATORY INFORMATION

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Plaster of Paris (CaSO ₄ •½H ₂ O)	>99	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

MATERIAL	WT%	IDL Item #	WHMIS Classification
Plaster of Paris (CaSO ₄ •½H ₂ O)	>99	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38

S-Phrase(s): S51 S38 S39

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SECTION 16 OTHER INFORMATION

Label Information

⚠ WARNING!

When mixed with water, this material hardens and becomes very hot sometimes quickly. DO NOT attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. Do not ingest. If ingested, call physician. Product safety information: 800- 507-8899 or usg. com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:		0 0	HMIS Ratings:		<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: blue; color: white;">HEALTH</td> <td style="color: white;">*</td> <td style="color: white;">1</td> </tr> <tr> <td style="background-color: red; color: white;">FLAMMABILITY</td> <td></td> <td style="color: white;">0</td> </tr> <tr> <td style="background-color: yellow; color: black;">PHYSICAL HAZARD</td> <td></td> <td style="color: black;">1</td> </tr> <tr> <td style="background-color: white; color: black;">PERSONAL PROTECTION</td> <td></td> <td style="color: black;">E</td> </tr> </table>	HEALTH	*	1	FLAMMABILITY		0	PHYSICAL HAZARD		1	PERSONAL PROTECTION		E	0 = Minimal Hazard
HEALTH	*		1															
FLAMMABILITY			0															
PHYSICAL HAZARD			1															
PERSONAL PROTECTION		E																
Health:	1	Health:	1	1 = Slight Hazard														
Fire:	0	Fire:	0	2 = Moderate Hazard														
Reactivity:	0	Reactivity:	1	3 = Serious Hazard														
					4 = Severe Hazard													

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation

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DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

Disclaimer:

No warranty, expressed or implied, or merchantability, fitness for a particular purpose or otherwise is made, except that the products herein discussed comply with the chemical description on the labels. Buyer assumes risks of the use, storage and handling. **Maheshwari Gypsum** shall not be liable for any incidental or consequential damages arising directly or indirectly in connection with the purchase, use, storage or handling of this product. The information contained herein is, to the best of our knowledge, true and accurate. However, all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. We disclaim any liability incurred in connection with the use of these data or suggestions. This information is not to be taken as a license to operate under, or a recommendation to infringe any patent(s). The observance of all regulations and patents is the responsibility of the user. No agent, representative or employee of this company is authorized to vary any terms of this notice.

