

Material Safety Data Sheet**GYPSUM****Section 1 - Product Identification**

Product Name : Gypsum
CAS No. : 13397-24-5
Synonym : Calcium Sulfate, Calcium sulfate dehydrate
Company Identification : Tradeasia International Pte. Limited
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Section 2 – Composition/Information on Ingredients**Substances**

Name of substance	Gypsum
Identifiers	
CAS No	13397-24-5
Molecular formula	
	CaH ₂ O ₅ S
Molar Mass	154.16 g/mol

Section 3 – Hazardous Ingredients & Occupational Exposure Limits**Classification of the substances or mixture****Classification according to Regulation (EC) No 1272/2008 (CLP)**

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/ EC.

Classification according to GHS Classification

There is not a GHS classification associated with this non-hazardous material.

Label Elements

Hazard Pictogram(s): None

Signal Word: None

Hazard Statements:

Not classified as a hazardous substance or mixture

Precautionary Statements

Not classified as a hazardous substance or mixture

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of in accordance with local, state, and federal regulations.

Hazards Not Otherwise Classified: None known.

Section 4 – First-Aid Measures

Inhalation: If inhalation of this material occurs and you feel unwell, move to fresh air

Eye contact: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If mechanical irritation occurs, get medical attention.

Skin Contact: Brush off excess material. Irrigate with water. If skin irritation occurs, get medical advice/attention.

Ingestion: No effect expected. If large amounts are ingested, get medical advice/attention.

Notes to physician: No specific treatment. Treat symptomatically.

Section 5 – Employee Protection

Fire Hazard: Negligible fire hazard.

Extinguishing Media: Use extinguishing agents appropriate for surrounding fire.

Fire Fighting: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Wear NIOSH approved positive-pressure self-contained breathing apparatus operated in pressure demand mode.

Hazardous Combustion Products: Oxides of carbon, Oxides of sulfur

Section 6 – Accidental Release Measures

Personal Precautions: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Avoid breathing dust. Avoid generating dust. Wash thoroughly after handling. When handling this material, wear appropriate personal protective equipment recommended in Section 8, Exposure Controls / Personal Protection, of the SDS.

Methods and Materials for Containment and Cleaning Up: Shovel dry material into suitable container. Flush spill area with water, if appropriate.

Environmental Precautions: Keep out of water supplies and sewers. Releases should be reported, if required, to appropriate agencies.

Section 7 – Handling and Storage

Precautions for Safe Handling: Observe good personal hygiene practices and recommended procedures. Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dust. Use methods to minimize dust. Wear personal protective equipment as described in Exposure Controls/Personal Protection (Section 8) of the SDS.

Safe Storage Conditions: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Material is very hygroscopic. Store in a cool, dry area. Keep separated from incompatible substances.

Incompatibilities/ Materials to Avoid: Aluminum

Section 8 – Exposure Controls/Personal Protection (later)

Exposure Limits/Guidelines:

Regulatory Exposure Limit(s): Listed below for the product components that have regulatory occupational exposure limits (OEL's) established.

Component: Particles Not Otherwise Regulated (PNOR) 00-00-001	Component: Gypsum (CaSO ₄ .2H ₂ O) (Total) 13397-24-5
OSHA Final PEL TWA: 15 mg/m ³ (Total), 5 mg/m ³ (Respirable)	OSHA Final PEL TWA: 15 mg/m ³ , 5 mg/m ³

NON-REGULATORY EXPOSURE LIMIT(S): Listed below for the product components that have advisory (non-regulatory) occupational exposure limits (OEL's) established

Component: Particulates Not Otherwise Specified (PNOS)**CAS No.:** Not assigned**ACGIH TWA:** 10 mg/m3 (Inhalable), 3 mg/m3 (Respirable)**Component:** Gypsum (CaSO₄.2H₂O) (Total)**CAS No.:** 13397-24-5**OSHA TWA (Vacated):** 15 mg/m3, 5 mg/m3

Additional Advice: Even though this material is not classified as hazardous according to US OSHA's 2012 Hazard Communication Standard, good hygiene and safety practices should be followed.

Engineering Controls: General or local exhaust ventilation and other forms of engineering controls are the preferred means for controlling exposures. Ensure compliance with applicable exposure limits.

Personal Protective Equipment

Eye/face protection: Use good hygiene practices when handling this material. Wear safety glasses with side-shields.

Skin and body protection: Use good hygiene practices when handling this material. As a good hygiene practice, wear protective clothing to minimize skin contact such as standard industrial work clothes, coveralls, safety footwear. Contaminated clothing should be removed and laundered before reuse.

Hand Protection: As a good hygiene practice, wear appropriate chemical resistant gloves. Consult a glove supplier for assistance in selecting an appropriate chemical resistant glove.

Respiratory protection: No personal respiratory protective equipment normally required. A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. In dusty or misty atmospheres use an approved particulate respirator. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practices. Good hygiene practices include but are not limited to: wearing suitable gloves and/or eye protection; washing hands and affected skin immediately after handling, before breaks, and at the end of the workday; regularly cleaning work area and clothing; etc.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Solid

Appearance: Solid cake

Color: White to gray

Odor: Odorless

Decomposition Temperature: No data available

Boiling Point/Range: Not applicable

Freezing Point/Range: Not applicable.

Melting Point/Range: 1450 °C (2642 °F)

Vapor Pressure: Not applicable

Vapor Density (air=1): Not applicable

Relative Density/Specific Gravity (water=1): 2.3

Density: No data available

Bulk Density: 54 - 77 lb./ft³

Water Solubility: No data available

pH: No data available

Volatility: No data available

Evaporation Rate (ether=1): Not applicable

Partition Coefficient (n-octanol/water): No data available

Flash point: Not flammable

Flammability (solid, gas): Not flammable

Lower Flammability Level (air): Not flammable

Upper Flammability Level (air): Not flammable

Auto-ignition Temperature: Not applicable

Viscosity: Not applicable

Hygroscopic: Yes

Other data

No data available

Section 10 – Stability and Reactivity

Reactivity: Not reactive under normal temperatures and pressures.

Chemical Stability: Stable at normal temperatures and pressures.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: Aluminum.

Hazardous Decomposition Products: Oxides of sulfur, Oxides of carbon (Carbon monoxide, Carbon dioxide)

Hazardous polymerization: Will not occur.

Section 11 – Toxicological Information

Irritation: This material was minimally irritating to unwashed eyes and practically non-irritating to washed eyes (rabbits).

Component Toxicity:

Gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) (Total) 13397-24-5 – LD50 Oral 3000 mg/kg (Rat)

Water 7732-18-5 – Not applicable

Sodium Chloride 7647-14-5 – LD50 Oral 3 g/kg (Rat), LD50 Dermal 10 g/kg (Rabbit), LC50 Inhalation 42 g/m³ (1 hr-Rat)

Carcinogenicity: This product is not classified as a carcinogen by NTP, IARC or OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity following single exposure: No data available

Specific target organ toxicity following repeated exposure: No data available

Aspiration hazard: No data available

Signs and symptoms of exposure:

Irritation is generally caused by mechanical action.

Inhalation (Breathing): Respiratory Irritation: Upper airway irritation, may cause cough, redness of mouth and upper airways.

Skin: Skin Irritation. Exposure to powder or fine particulates of this material may cause slight skin redness, irritation.

Eye: Eye Irritation: Eye exposure may cause irritation, and redness to the eye lids, conjunctiva.

Ingestion (Swallowing): No known effects.

Potential health effects

Eye contact: May cause mild eye irritation.

Inhalation: May cause slight upper respiratory irritation.

Skin Contact: May cause slight skin irritation.

Ingestion: No known effects.

Interaction with Other Chemicals Which Enhance Toxicity: None known.

Section 12 – Ecological Information

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

Section 13 – Disposal Considerations

Waste from material: Reuse or recycle if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

Container Management: Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

Section 14 – Transport Information

DOT/TDG/MEX/IATA/IMDG/ADR

Not regulated

Additional Information:

No data available

Section 15 – Regulatory Information

1. US Federal regulations

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

SARA: Not regulated.

2. International regulations

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations

EU-Regulations

No data available

3. National regulations

U.S. INVENTORY STATUS: Toxic Substance Control Act (TSCA): All components are listed or exempt.

TSCA 12(b): This product is not subject to export notification.

4. US State regulations

GYPSUM

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Tradeasia International Pte. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.