

# Material Safety Data Sheet

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## Section I - Chemical Product And Company Identification

**Product Name: Thioguard® 1 (61-65%)**

CAS Number: 1309-42-8

HBCC MSDS No. CM04440



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## Section II - Composition/Information On Ingredients

| Chemical Name       | CAS Number | %     | Exposure Limits (TWAs) in Air  |                                      |      |
|---------------------|------------|-------|--|--------------------------------------|------|
|                     |            |       | ACGIH TLV  | OSHA PEL                             | STEL |
| Magnesium Hydroxide | 1309-42-8  | 61-65 | 10 mg/m <sup>3</sup><br>(total dust)<br>5 mg/m <sup>3</sup><br>(respirable dust) | 15 mg/m <sup>3</sup><br>(total dust) | N/A  |

## Section III - Hazard Identification

**Routes of Exposure:** N/A

**Summary of Acute Health Hazards:** The product presents a very low health risk. Magnesium hydroxide is a general purpose food additive. Dust generated from the dried product is classified as a nuisance dust.

**Ingestion:** Ingestion is unlikely. If ingested in sufficient quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain and diarrhea.

**Inhalation:** May irritate the respiratory tract on prolonged or repeated contact. May aggravate pre-existing respiratory conditions.

**Skin:** Repeated or prolonged contact may cause irritation.

**Eyes:** Particulate is a physical eye irritant.

**Summary of Chronic Health Hazards:** Dried product dust is classified as a “nuisance particulate, not otherwise regulated” as specified by ACGIH and OSHA. The excessive, long-term inhalation of mineral dusts may contribute to the development of industrial bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease.

**Signs and Symptoms of Exposure:** N/A

**Effects of Overexposure:** N/A

**Medical Conditions Generally Aggravated by Exposure:** Dust from the dried product

may aggravate pre-existing chronic lung conditions such as, but not limited to, bronchitis, emphysema, and asthma.

**Note to Physicians:** N/A

#### Section IV - First Aid Measures

**Ingestion:** Ingestion is an unlikely route of exposure. Give 1 - 2 glasses of water and seek immediate medical attention. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting for medical personnel, since some particles may be aspirated into the lungs. Seek immediate medical attention.

**Inhalation:** Remove victim to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

**Skin:** Wash affected areas with mild soap and water.

**Eyes:** Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, seek medical attention.

#### Section V - Fire Fighting Measures

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Lower Explosive Limit:** N/A

**Upper Explosive Limit:** N/A

**Unusual Fire and Explosion Hazards:** N/A

**Extinguishing Media:** Use extinguishing media appropriate to combustibles in area of fire.

**Special Firefighting Procedures:** Firefighters should wear NIOSH-approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

#### Section VI - Accidental Release Measures

Carefully, clean up and place material into a suitable container, being careful to avoid creating excessive dust from dried product. If conditions warrant, clean up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation.

#### Section VII - Handling and Storage

Store at ambient temperature. Prevent possible eye and skin contact by wearing protective clothing and equipment. Do not store in aluminum tanks. Do not allow product to freeze.

#### Section VIII - Exposure Controls/Personal Protection

**Respiratory Protection:** Respirator approved by NOISH/ MSHA are adequate for contaminate concentrations encountered in accordance with requirements of 29 CFR 1910.134 for level of exposure incurred.

**Ventilation:** Provide sufficient ventilation, in both volume and air flow patterns to control mist/dust concentrations below allowable exposure limits.

**Protective Clothing:** Gloves are recommended, rubber gloves are recommended when repeated or prolonged contact is likely. Long sleeve clothing is also recommended.

**Eye Protection:** Safety glasses are recommended.

**Other Protective Clothing or Equipment:** N/A

**Work/Hygienic Practices:** Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water before eating, drinking, smoking or using toilet facilities. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible..

### Section IX - Physical and Chemical Properties

**Physical State:** Liquid **pH (10% aqueous slurry):** 10-11  
**Melting Point/Range:** Decomposes to MgO at 662°F **Boiling Point/Range:** 212°F, 100°C Water component)  
**Appearance/Color/Odor:** Thick, tan to off-white slurry; odorless.  
**Solubility in Water:** Aqueous Slurry **Vapor Pressure(mmHg):** N/A  
**Specific Gravity (Water=1):** Slurry Mixture **Molecular Weight:** N/A  
**Vapor Density (Air=1):** N/A **% Volatiles (by volume):** 0  
**How to detect this compound :** N/A **Evaporation Rate:** Same as Water  
**Bulk Density (lbs./gal.):** 12.8

### Section X - Stability and Reactivity

**Stability:** Stable **Hazardous Polymerization:** Will not occur  
**Conditions to Avoid:** N/A  
**Materials to Avoid:** Maleic Anhydride; Acids; Aluminum metal in contact with product may produce hydrogen.  
**Hazardous Decomposition Products:** None

### Section XI - Toxicological Information

N/A

### Section XII - Ecological Information

N/A

### Section XIII - Disposal Considerations

May be disposed of in a secured sanitary landfill. Disposal must be done in accordance with Local, State, and Federal regulations.

### Section XIV - Transport Information

**DOT Proper Shipping Name:** N/A  
**DOT Hazard Class/ I.D. No.:** N/A  
Product must not be transported in tanks constructed of aluminum.

### Section XV - Regulatory Information

Product or components of mixture regulated under following lists:  
SARA Title III:  
Section 311: YES (Community Right-To-Know, MSDSs or List of Chemicals)  
Section 312: YES (Community Right-To-Know, Inventory and Location, (Tier I/II))

TSCA: All substances in this product are listed in the Chemical Substance Inventory of the Toxic Substances Control Act.

**Reportable Quantity:** N/A

**NFPA Rating:** Health - 0; Fire - 0; Reactivity - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

**Carcinogenicity Lists:** No **NTP:** No **IARC Monograph:** No **OSHA Regulated:** No

**WARNING**

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive toxins.

### Section XVI - Other Information

**Synonyms/Common Names:** Brucite

**Chemical Family/Type:** Inorganic Oxide

Thioguard® is a registered trademark of Premier Chemicals

**Section(s) changed since last revision:** III, IV, V, VI, VII, VIII, IX, X, XIV, XV, XVI

**IMPORTANT!** Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable.

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