

Material Safety Data Sheet

Revision Issued: 6/14/2004

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Section I - Chemical Product And Company Identification

Product Name: Aquamag

CAS Number: 1309-42-8

HBCC MSDS No. CM04410



HILL BROTHERS *Chemical Co.*

1675 NORTHMAIN STREET • ORANGE, CALIFORNIA 92867-3499
(714) 998-8800 • FAX: (714) 998-6310
<http://hillbrothers.com>

1675 No. Main Street, Orange, California 92867

Telephone No: 714-998-8800 | Chemtrec: 800-424-9300

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	51-65	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)	15 mg/m ³ (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: May irritate or injure eyes.

Summary of Chronic Health Hazards: The excessive inhalation above (TLV) of mineral dust, over long periods of time, may cause industrial bronchitis, reduce breathing capacity, and lead to increased susceptibility to other 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: Low toxicity. 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.

Inhalation: Move to fresh air; if discomfort persists, get medical attention.

Skin: Wash with soap and water.

Eyes: Irrigate immediately with plenty of water for at least 15 minutes. Obtain medical attention if necessary.

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: Not considered to be a fire hazard.

Extinguishing Media: N/A

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

Dike the spilled liquid, and either pump back into original container or cover with clay-type substance for absorption.

Section VII - Handling and Storage

Store at ambient temperature. Prevent possible eye and skin contact by wearing protective clothing and equipment.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Respirator approved by NOISH/ MSHA are adequate for contaminate concentrations encountered.

Ventilation: N/A

Protective Clothing: Gloves are recommended, rubber gloves are recommended when repeated or prolonged contact is likely.

Eye Protection: Safety glasses are recommended.

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: Avoid contact with the eyes and skin.

Section IX - Physical and Chemical Properties

Physical State: Milky liquid

pH: 10-11

Melting Point/Range: Decomposes at 350°C

Boiling Point/Range: 212°F, 100°C

Appearance/Color/Odor: White-off white, no odor

Solubility in Water: Nil

Vapor Pressure(mmHg): N/A

Specific Gravity(Water=1): 1.4-1.6

Molecular Weight: N/A

Vapor Density(Air=1): N/A

How to detect this compound : N/A

% of Solution:	48-51	51-55	61-65
% Volatiles:	49-52	45-49	35-39

Section X - Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

Materials to Avoid: Acids, phosphorus, potassium, and maleic anhydride. Magnesium hydroxide is soluble in aqueous acids generating heat.

Hazardous Decomposition Products: Heat and steam

Section XI - Toxicological Information

Oral Rat LD50 @ 100% solid: 8500 mg/kg body weight.

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

Section XV - Regulatory Information

Reportable Quantity: N/A

NFPA Rating: Health - 1; 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

Section XVI - Other Information

Synonyms/Common Names: Brucite

Chemical Family/Type: Magnesium Hydroxide

Sections changed since last revision: IV, V, IX, X, XI

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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