

Material Safety Data Sheet

Revision Issued: 9/02/2009 Supersedes: 9/02/2009 First Issued: 9/02/2009

Section I - Chemical Product And Company Identification

Product Name: AQUAMAG NSF

CAS Number: 1309-42-8

HBCC MSDS No. CM04428



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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	53-56	10 mg/m ³ ; respirable dust: 5 mg/m ³	15 mg/m ³ ; respirable: 5 mg/m ³	N/A

Section III - Hazard Identification

Summary of Acute Health Hazards

Ingestion: An unlikely route of exposure. If ingested in sufficient quantity, may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

Inhalation: Low toxicity by inhalation route.

Skin: Low toxicity by skin contact.

Eyes: Low toxicity. Particulate is a physical eye irritant.

Section IV - First Aid Measures

Ingestion: Ingestion is an unlikely route of exposure. If ingested in sufficient quantity and victim is conscious, give 1-2 glasses of water. Never give anything by mouth to an unconscious person. Leave decision to induce vomiting to qualified medical personnel, since particles may be aspirated into the lungs. Seek immediate medical attention.

Inhalation: Remove 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.

Effects of Overexposure: Overexposure to mist/particulate may cause physical eye and upper respiratory irritation.

Chronic Effects: Not hazardous in normal industrial use. Dust from dried product slurry is classified as a "nuisance particulate, not otherwise regulated" as specified by ACGIH and OSHA.

Section V - Fire Fighting Measures

Flash Point: Non Combustible

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: None

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

Spill Procedures: Not a spill or environmental hazard. 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

Storage: Do not store in aluminum tanks. Do not allow product to freeze.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910.13 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: The use of goggles, gloves, apron and long sleeve clothing is recommended. Rubber gloves, when prolonged or repeated contact is likely.

Eye Protection: Safety goggles

Other Protective Clothing or Equipment: N/A

Work/Hygienic Practices: 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: > 3800°F; 2093.33°C **Boiling Point/Range:** Losses free water at 100°C; 212°F
Chemical combined water at 350°C; 662°F

Appearance/Color/Odor: Tan to off-white, stable slurry mix; odorless

Solubility in Water: Aqueous Slurry **Evaporation Rate:** Same as water

Specific Gravity (g/cc): 1.48 **% Volatiles (by volume):** 0

Density (lbs./gal.): 12.35

Section X - Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will not occur

Conditions to Avoid: N/A

Materials to Avoid: Maleic anhydride, Aluminum metal in contact with product may produce hydrogen.

Hazardous Decomposition Products: Heat and Steam

Section XI - Toxicological Information

Magnesium Hydroxide: CAS# 1309-42-8 Toxic and Hazard Review: a general purpose food additive; THERAP CAT: Antacid, cathartic THERAP CAT (VET): Laxative. TOXICITY DATA: No LD50 or LC50 found for oral, dermal, or inhalation routes of administration.

Balance of Ingredients: No LD50 or LC50 found for oral, dermal, or inhalation routes of administration.

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Waste Management/Disposal: This product does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal once the free water component is evaporated or absorbed by a suitable absorbent. Follow all applicable federal, state and local regulations for safe disposal.

Section XIV - Transport Information

DOT Proper Shipping Name: Not regulated

DOT Hazard Class/ I.D. No.: Not regulated

This product is not to be transported or stored in tanks constructed of aluminum.

Aluminum metal in contact with product may produce hydrogen.

Section XV - Regulatory Information

Reportable Quantity: N/A

NFPA Rating: Health - 0; Flammability - 0; Instability - 0

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

Warning:

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

Carcinogenicity Lists:

NTP: No

IARC Monograph: No

OSHA Regulated: No

Section XVI - Other Information

Synonyms/Common Names: Brucite

Chemical Family/Type: Inorganic Hydroxide

Section changed since last revision: First Issue

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. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, [Hill Brothers Chemical Company](#) makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.