

Material Safety Data Sheet Magnesium Hydroxide

MSDS# 13405

Section 1 - Chemical Product and Company Identification

MSDS Name: Magnesium Hydroxide

M342-500 Catalog Numbers:

Synonyms: Magnesia magma; Magnesium Hydrate, Milk of Magnesia.

Fisher Scientific

Company Identification: One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100 201-796-7100 Emergency Number US: 800-424-9300 CHEMTREC Phone Number, US:

Section 2 - Composition, Information on Ingredients

CAS#: 1309-42-8

Chemical Name: MAGNESIUM HYDROXIDE

%. 95-100 EINECS#: 215-170-3

XI Hazard Symbols:



Risk Phrases: 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eve: Causes eve irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Ingestion:

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: Repeated exposure may cause kidney damage and digestive tract abnormalities.

Section 4 - First Aid Measures

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower Eyes:

eyelids. Get medical aid immediately.

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and Skin:

shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Inhalation:

breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Intravenous calcium chloride (10 to 20 cc of 5% solution, diluted if desirable with isotonic saline) counteracts Antidote:

the toxic actions of magnesium. Also, physostigimine 0.5 to 1.0 mg subcutaneously.

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General Information:

(approved or equivalent), and full protective gear.

Extinguishing Media: Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Not available Lower:

Explosion Limits: Upper: Not available

NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General

Information:

Use proper personal protective equipment as indicated in Section 8.

Clean up spills immediately, observing precautions in the Protective Equipment section. Wear a self

contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Spills/Leaks:

Protection section). Sweep up or absorb material, then place into a suitable clean, dry, closed container for

disposal. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	H NIOSH	++ OSHA - Final PELs
MAGNESIUM HYDROXIDE	none listed	none listed	none listed

OSHA Vacated PELs: MAGNESIUM HYDROXIDE: None listed

Engineering Controls:

Local exhaust may be necessary to control concentrations to acceptable levels.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Wear appropriate protective clothing to prevent skin exposure. Clothing:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: odorless

pH: 9.5-10.5 (slurry)

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available

Viscosity: Not available Boiling Point: Not available

Freezing/Melting Point: 350 deg C (662.00°F)

Decomposition Temperature:

Solubility in water: Insoluble in water. Specific Gravity/Density: 2.36 (water=1)

> Molecular Formula: Mg(OH)2 Molecular Weight: 58.3178

Section 10 - Stability and Reactivity

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling

conditions.

Conditions to Avoid:

Incompatible materials, dust generation.

Incompatibilities with Other

Materials

Not available

Hazardous Decomposition Products

Oxides of magnesium.

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

RTECS#:

CAS# 1309-42-8: OM3570000

RTECS:

LD50/LC50:

CAS# 1309-42-8: Oral, mouse: LD50 = 8500 mg/kg;

Oral, rat: LD50 = 8500 mg/kg;

Carcinogenicity: MAGNESIUM HYDROXIDE - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other:

No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not Regulated.

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 1309-42-8: 1

Canada

CAS# 1309-42-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

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

CAS# 1309-42-8 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 1309-42-8 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 3/23/1999 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event shall the company 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 the company has been advised of the possibility of such damages.
