



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: MAGNESIUM HYDROXIDE SOLUTION
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MSDS Date: September 15, 2004
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Magnesium Hydroxide Solution

CHEMICAL NAME: Magnesium Hydroxide

FORMULA: Mg(OH)₂

CHEMICAL FAMILY: Acid Salts

DOT SHIPPING INFORMATION: Not Regulated

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Magnesium Hydroxide solution	1309-42-8	58 - 60	none

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - PHYSICAL DATA

BOILING POINT: 212°F

SPECIFIC GRAVITY: 1.4 – 1.5

VAPOR PRESSURE (mm Hg): vapor is water

% VOLATILE, BY VOLUME: about 40%

VAPOR DENSITY (air = 1): vapor is water

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: complete

APPEARANCE AND ODOR: Milky liquid with no odor

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: nonflammable

FLAMMABLE LIMITS:

Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:

Use any.

SPECIAL FIRE-FIGHTING PROCEDURES:

Exercise caution when fighting any chemical fire. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:



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None.

SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS OR MATERIALS TO AVOID: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

SECTION VI - HEALTH HAZARD DATA

CARCINOGENIC LISTING:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact: Can cause burns and severe irritation to eyes, skin and mucous membranes.

Inhalation: Mist can cause respiratory discomfort.

Ingestion: Can cause burns to the gastrointestinal system, which could possibly be fatal.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Wash exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get prompt medical attention.

Inhalation: Remove to fresh air. If discomfort persists, consult a physician.

Ingestion: If conscious, give several glasses of milk or water. Do not induce vomiting unless instructed to do so by a medical practitioner. Call a physician or local Poison Control Center at once!

SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid all bodily contact. Do not take internally. Wash thoroughly after handling. Avoid breathing mist. Open containers carefully.

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear proper safety equipment. Dike the liquid and recover into drums, if possible. Neutralize residue with soda ash and flush to sewer if permitted.



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WASTE DISPOSAL METHOD:

If collected material can be dissolved, it may be discharged to an industrial waste water collection system. Consult local, state or federal regulatory agencies before disposing of any material.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If airborne concentrations become irritating, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements.

VENTILATION:

Maintain adequate ventilation.

EYE PROTECTION:

Chemical goggles.

SKIN PROTECTION:

Chemical resistant gloves.

OTHER PROTECTIVE EQUIPMENT:

As needed to prevent contact with eyes and skin.

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.