



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: MAGNESIUM HYDROXIDE

Manufactured for and supplied by:
Harwick Standard Distribution Corporation
60 South Seiberling Street
P.O. Box 9360
Akron, Ohio 44305-0360

Telephone #: 330-798-9300
Date prepared: April 8, 2009
Preparer: Health, Safety & Environment
Product Use: Rubber Additive

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

Components		LD ₅₀ (mg/kg)	LC ₅₀ (mg/kg)	
Chemical Identity	CAS Number	of Ingredient	of Ingredient	%
Magnesium Hydroxide Mg(OH) ₂	1309-42-8	Rat/oral 8500 mg/kg		90-100
Water	7732-18-5	Rat/oral >90 mL/kg		1-10

SECTION 3 - HAZARD(S) IDENTIFICATION

Primary routes of exposure:

inhalation skin contact eye contact skin absorption ingestion

Emergency Overview: Product is non-flammable white hexagonal plate or amorphous powder. CAUTION! This product can be irritating to the skin, eyes, digestive and respiratory tract. Excessive or prolonged exposure may produce more harmful effects.

Potential Health Effects: This product may cause irritation to the respiratory system. May irritate mucous membranes.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion: If swallowed, call a physician immediately. Do not induce vomiting.

Skin contact: Wash skin with soap and water. Get medical attention if irritation persists

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Notes to Physician: Provide general supportive measures and treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Flash point (method): Not applicable



Extinguishing media: Use methods for surrounding fire.

Special fire fighting procedures: Firefighters should wear full protective clothing including self contained breathing apparatus.

Unusual fire and explosion hazards: None known

Hazardous combustion products: Irritating and/or toxic gases or fumes may be emitted upon the products decomposition. Decomposition of this product may yield oxides of magnesium.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak & Spill Procedure: Contain the discharged material. Do not allow the spill product to enter public drainage system or open watercourses. Wears appropriate protective equipment and clothing during clean-up. Collect material and place in appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid getting this material in contact with skin or eyes. Avoid breathing fumes or dust from this material. Use protective equipment as described in Section 6 of this material safety data sheet when handling un-contained material.

Storage: Warehouse storage should be in accordance with package directions. If any materials should be kept dry and protected from the elements. Keep separated from incompatible materials. Store at room temperature.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: ACGIH: 10 mg/m³ TWA (inhalable particles, recommended), 3 mg/m³ TWA (respirable particles, recommended) (related to particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
OSHA (Final): 15mg/m³ TWA (total dust): 5mg/ m³ TWA (respirable fraction) (related to particulates not otherwise regulated)

Respiratory protection (specify type): A NIOSH/MSHA approved respirator above PEL or TLV, and/or an organic vapor respirator for vapors or mists.

Ventilation: **local exhaust:** Recommended to minimize exposure.
mechanical (general): Recommended to minimize exposure.

Protective gloves: Impervious gloves

Eye protection: Safety glasses with side-shields, chemical goggles if dusts or fumes are generated.

Skin protection: Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.

Other protective clothing or equipment:



Work/hygienic practices: Use good industrial hygiene practices in handling this material.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Boiling point:	Not applicable	Specific gravity:	2.36
Freezing point:	Not applicable	pH:	Not available
Vapor pressure (mm Hg):	Not available	Odor threshold (ppm):	Not applicable
Vapor density (AIR=1):	Not available	Coefficient of water/oil distribution:	Not available
Solubility in water:	0.0009 @ 18°C	Evaporation rate:	Not available
Appearance/color:	White hexagonal plates or amorphous powder	Odor:	No odor
Form:	Solid		

SECTION 10 - STABILITY & REACTIVITY

Stability **stable:**
 unstable:

Conditions to avoid (cond. of reactivity): Hazardous polymerization has not occurred under normal temperatures and pressures.

Incompatibility (materials to avoid): This product reacts with mineral acids, maleic anhydride and phosphorus.

Hazardous decomposition or byproducts: Decomposition of this product may yield oxides of magnesium. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

Hazardous polymerization may occur:
 will not occur:

Conditions to avoid: Avoid incompatible materials.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute: May cause eye and respiratory tract irritation. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea. Excessive amounts of magnesium may cause central nervous system depression, respiratory paralysis, and cardiac arrest.

Chronic: Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis. Chronic over-exposure to magnesium hydroxide may cause kidney damage and digestive tract abnormalities.

Carcinogenicity

NTP **IARC** **OSHA** **ACGIH**

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic Toxicity: Not available



SECTION 13 - DISPOSAL CONSIDERATIONS

Waste disposal method: In accordance with federal, state, and local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

Special shipping information: Not DOT regulated.

SECTION 15 - REGULATORY INFORMATION

TSCA Inventory Status:

Chemical components are listed on the TSCA inventory.

SARA 313

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372: Not available

SARA Sections 311 & 312

Superfund Amendments & Reauthorization Act of 1986 Title III: Not available

RCRA status

The following chemical components are listed under (40 CFR 261): None known

HMIS Classification: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0

SECTION 16 - OTHER INFORMATION

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