**SECTION 1 - Product and Company Identification**

Product Identifier: Magnesium Hydroxide  
Chemical Family: Magnesium hydroxide slurry/solution  
Product use: Industrial and municipal wastewater treatment  
Supplier: Themark Corporation  
5455 Hidalgo Street • Houston, 77056  
Phone: 412-551-9893  

Emergency Tel. #:  
Chemtrec (800) 424-9300 (Within Continental U.S.).  
Chemtrec (703) 527-3887 (Outside Continental U.S.).

**SECTION 2 - Hazards Identification**

**EMERGENCY OVERVIEW**  
Avoid creating excessive dust and sprays of product. May cause eye and skin irritation. Maybe harmful if swallowed. Wear appropriate PPE and practice good chemical hygiene.

**SECTION 3 - Composition/Information On Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>% (weight)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Hydroxide</td>
<td>1309-42-8</td>
<td>60</td>
<td>10 *</td>
<td>15 **</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>40</td>
<td>------</td>
<td>------</td>
</tr>
</tbody>
</table>

* Inhalable as particulates not otherwise specified.  
** Total dust as inert or nuisance dust not otherwise regulated.

This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200).
SECTION 4 - First Aid Measures

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INHALATION: Remove victim to fresh air and place in comfortable resting position. Get immediate medical attention if breathing becomes difficult.

INGESTION: Get medical attention immediately. Do not give anything by mouth to an unconscious person. Place victim on left side with head down to prevent aspiration into lungs. Do not induce vomiting. Call a physician or poison control center immediately for additional advice or information.

SECTION 5 - Firefighting Measures


Flash point (Method): > 212°F (Closed Cup).

Auto-ignition temperature: N/Av.

Lower Combustible limit (% by vol.): N/Av.

Upper Combustible limit (% by vol.): N/Av.

Explosion data: Product is not explosive.

Oxidizing properties: None known.

Suitable extinguishing media: Water spray, fog, alcohol foam, or carbon dioxide.

Special firefighting procedures/equipment: Containers can build up pressure if exposed to heat (fire). As in any fire, wear a self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Apply alcohol-type foam or all-purpose foam by manufacturers’ recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires. Use water spray to keep containers cool.

SECTION 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled: Extinguish any possible ignition source until the area is determined to be free from fire or explosion hazard. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. (See exposure controls / personal protection section) Spilled material should be disposed of according to applicable regulations.

Special spill response procedures: In case of a transportation accident, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

SECTION 7 - Handling and Storage

Safe handling procedures: Handle all chemicals with care.

Storage requirements: Keep away from heat, sparks, and flames. Keep container closed when not in use. Store in a cool, dry, well-ventilated place away from incompatible materials.

Special packaging materials: Always keep in containers made of the same materials as the supply container.

SECTION 8 - Exposure Control / Personal Protection

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control dust and sprays of this material.

RESPIRATORY PROTECTION: No protection needed under normal use and conditions. Avoid creating dust/spray of this material as best possible. Use a NIOSH/MSHA approved air purifying respirator when dust/spray of this material is expected.

SKIN PROTECTION: When contact is likely wear chemical resistant gloves and boots.

EYE PROTECTION: Wear safety glasses with side shields or goggles.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash stations and deluge showers should be available in the work area.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse.

SECTION 9 - Physical and Chemical Properties

Physical state, odor and appearance: Solid white slurry

Odor threshold: None

Viscosity: N/Av.

Specific gravity: Approx. 1.5 (Solid Density @ 2.36)

Solubility: Water (6.9mg/L)

Vapor pressure (PSIG): N/Av.

Vapor density (Air = 1): N/Av.

Boiling point: N/Av.

Freezing point: N/Av.

Evaporation rate (n-Butyl acetate = 1): N/Av.

pH: N/Av.
SECTION 10 - Reactivity and Stability Data

Stability and reactivity: This product is stable under normal storage conditions.

Hazardous polymerization: Will not occur under normal use and storage conditions.

Conditions to avoid: Incompatible material, excessive heat and cold, and moisture.

Materials to avoid (incompatibles): Strong acids, maleic anhydride, and phosphorus.

Hazardous decomposition products: Magnesium hydroxide decomposition begins at temperatures > 350°F forming magnesium oxide and water. Magnesium oxide fumes can be generated in cases where temperatures exceed 1700°C.

SECTION 11 - Toxicological Information

Toxicological data: No product information is available.

Carcinogenic status: Not listed as a carcinogen.

Reproductive effects, Teratogenicity, Mutagenicity: No product information is available.

Sensitization to material: None known.

Synergistic materials: N/Av.

SECTION 12 - Ecological Information

ECOTOXICITY: No product information is available.

CHEMICAL FATE INFORMATION: No product information is available.

SECTION 13 - Disposal Considerations

Handling for disposal: Handle according to recommendations listed in Section 7.

WASTE DISPOSAL: Consult local, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations. Disposal in streams or sewers may be prohibited by federal, state, and local regulations.

RCRA STATUS: None

SECTION 14 - Transporation Information

United States 49 CFR information:

(NON-BULK SHIPMENTS)
D.O.T. PROPER SHIPPING NAME: Not Regulated
D.O.T. TECHNICAL NAME: Non-hazardous for D.O.T. purposes
D.O.T. HAZARD CLASS: N/A
HAZARD SUBCLASS: N/A

D.O.T. UN NUMBER: N/A
PACKING GROUP: N/A
RESP. GUIDE PAGE: N/A

(BULK SHIPMENTS)
D.O.T. PROPER SHIPPING NAME: Not Regulated
D.O.T. TECHNICAL NAME: Non-hazardous for D.O.T. purposes
D.O.T. HAZARD CLASS: N/A
HAZARD SUBCLASS: N/A
D.O.T. UN NUMBER: N/A
PACKING GROUP: N/A
RESP. GUIDE PAGE: N/A

T.D.G. PROPER SHIPPING NAME: Not Regulated
T.D.G. TECHNICAL NAME: N/A
T.D.G. HAZARD CLASS: N/A
HAZARD SUBCLASS: N/A
T.D.G. UN NUMBER: N/A
PACKING GROUP: N/A
RESP. GUIDE PAGE: N/A

IMDG PROPER SHIPPING NAME: Not Regulated
IMDG TECHNICAL NAME: N/A
IMDG HAZARD CLASS: N/A
HAZARD SUBCLASS: N/A
IMDG UN NUMBER: N/A
PACKING GROUP: N/A
EmS No.: N/A

SECTION 15 - Regulatory Information

US Federal Information:
CERCLA – SARA HAZARD CATEGORY:

SECTION 311/312: This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

COMPONENT CAS# % BY WEIGHT

No SARA Section 313 components exist in this product.

TSCA STATUS:
All components of this product are listed on the Toxic Substance Control Act Inventory or are excluded from the listing requirements.
**SECTION 16 - Other Information**

**NFPA/HMIS Rating:**

0 - Insignificant  1 - Slight  2 - Moderate  3 - High  4 - Extreme  
B - Goggles, Gloves

**Health:** 0/0

**Flammability:** 0/0

**Reactivity:** 0/0

**Personal Protection:** B

**Prepared by:** Themark Corporation  
**Preparation date:** November 18, 2014

**Disclaimer of Liability**

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