

**J. M. Huber Corporation**  
**Magnesium Hydroxide**  
**MATERIAL SAFETY DATA SHEET - Treated**

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| <b>MANUFACTURER'S NAME</b><br>J. M. HUBER CORPORATION/Engineered Minerals Division | <b>EMERGENCY TELEPHONE NO.</b><br>(770) 441-1301<br>(706) 337-5322 |
| <b>ADDRESS</b><br>4940 Peachtree Industrial Blvd., Norcross, GA 30071              |  |

| SECTION I - MATERIAL DESCRIPTION   |  |
|--|--|
| <b>CHEMICAL NAME AND FORMULA</b><br>Magnesium Hydroxide, Mg(OH) <sub>2</sub> |  |
| <b>CHEMICAL FAMILY</b><br>Alkaline Earth Hydroxide                           | <b>TRADE NAME/SYNONYMS</b><br>50SP, 50SH1-C, 51, LB-213-30D,RM |
| <b>CAS NUMBER:</b> 1309-42-8 (Magnesium Hydroxide)                           |  |

| SECTION II - INGREDIENTS AND IDENTIFICATION |                     |                     |                       |                           |
|---|---------------------|---------------------|-----------------------|---------------------------|
| CAS No.                                     | Ingredient          | Typical % By Weight | Occupational OSHA PEL | Exposure Limits ACGIH TLV |
| 1309-42-8                                   | Mg(OH) <sub>2</sub> | 95-97               | 5                     | 5                         |
| 1317-65-3                                   | CaCO <sub>3</sub>   | 1-2                 | 15                    | 10                        |
| 546-93-0                                    | MgCO <sub>3</sub>   | 1-2                 | 15                    | 15                        |
| Trade Secret                                | Trade Secret        | 1.0-3.0             | Not Established       | Not Established           |

| SECTION III - PHYSICAL DATA |                                 |                              |                           |
|-----------------------------|---------------------------------|------------------------------|---------------------------|
| <b>BOILING POINT (°F)</b>   | NA                              | <b>VAPOR PRESSURE (mmHg)</b> | NA                        |
| <b>VOLATILITY</b>           | NA                              | <b>VAPOR DENSITY (air=1)</b> | NA                        |
| <b>EVAPORATION RATE</b>     | NA                              | <b>APPEARANCE AND ODOR</b>   | White powder, odorless    |
| <b>SOLUBILITY IN WATER</b>  | 0.0009 g/100 ml at 18°C         | <b>MELTING POINT</b>         | NA<br>Decomposes at 350°C |
| <b>SOLUBILITY (OTHER)</b>   | Dilute Acids and Ammonium Salts | <b>SPECIFIC GRAVITY</b>      | 2.36                      |

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

|  |    |                         |    |
|--|----|-------------------------|----|
| FLASH POINT  | NA | EXTINGUISHING MEDIA     | NA |
| FLAMMABLE LIMITS IN AIR  | NA | SPECIAL FIRE PROCEDURES | NA |
| UNUSUAL FIRE AND EXPLOSION HAZARDS                                     | NA |                         |    |
| ADDITIONAL INFORMATION: Evolves water vapor on heating to above 350° C |    |                         |    |

### SECTION V - REACTIVITY DATA

|  |  |
|--|--|
| STABILITY                              | Stable in air, water and heat (up to 350° C) |
| INCOMPATIBILITY                        | Acids, strong oxidizing agents               |
| HAZARDOUS DECOMPOSITIONS OR BYPRODUCTS | Magnesium Oxide                              |
| HAZARDOUS POLYMERIZATION               | Will not occur                               |
| CORROSIVITY                            | Not corrosive                                |

### SECTION VI - HEALTH HAZARD DATA

|   |     |      |    |  |     |      |     |
|---|-----|------|----|--|-----|------|-----|
| <b>ROUTES OF ENTRY:</b>   |     |      |    |  |     |      |     |
| INHALATION  | YES | SKIN | NO | INGESTION  | YES | EYES | YES |
| <b>HEALTH HAZARDS:</b>  |     |      |    |  |     |      |     |
| <b>Acute</b>  |     |      |    | (Short Term) Over Exposure   |     |      |     |
| Skin Absorption   |     |      |    | None reported  |     |      |     |
| Eye Contact   |     |      |    | May cause abrasion and irritation  |     |      |     |
| Inhalation  |     |      |    | Airborne nuisance dust may cause coughing, shortness of breath, wheezing or general irritation of breathing passages |     |      |     |
| Skin Contact  |     |      |    | May cause dryness and irritation   |     |      |     |
| Ingestion   |     |      |    | May cause abdominal pain and/or diarrhea. Acts as a laxative.  |     |      |     |
| <b>Chronic</b>  |     |      |    | (Long-Term) Over Exposure  |     |      |     |
| Airborne nuisance dust may cause chronic effects in eye contact irritation, including permanent abrasion damage to cornea. Breathing airborne nuisance dust can cause chronic breathing difficulty. |     |      |    |  |     |      |     |
| <b>Carcinogenicity</b>  |     |      |    |  |     |      |     |
| None reported for eye contact, skin absorption on contact, ingestion or inhalation  |     |      |    |  |     |      |     |

**SECTION VI - HEALTH HAZARD DATA (Continued)****SIGNS AND SYMPTOMS OF EXPOSURE:**

|  |  |
|--|--|
| <b>Acute</b>   | (Short Term) Over Exposure   |
| Skin Absorption  | None Reported  |
| Eye Contact  | Tearing, redness   |
| Inhalation   | May cause coughing, mucus production, shortness of breath, wheezing and/or irritation of breathing passages  |
| Skin Contact   | Irritation, rash   |
| Ingestion  | Single dose oral toxicity is low   |
| <b>Chronic</b>   | (Long Term) Over Exposure  |
| Airborne nuisance dust can cause aggravated symptoms described above, and could lead to chest pains and/or choking if uninterrupted and untreated. |  |
| <b>Emergency First Aid Procedures:</b>   |  |
| Inhalation   | Remove from exposure area to fresh air immediately   |
| Eye Contact  | Flush eyes with clean water for at least 15 minutes until no evidence of material remains  |
| Skin Contact   | Rinse exposed areas with fresh water, then wash thoroughly with mild soap and warm H <sub>2</sub> O. Avoid vigorous scrubbing which could aggravate abrasion irritation. |

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

## Steps to be taken in case material is released or spilled

|                     |   |
|---------------------|---|
| <b>Small Spills</b> | Use scoop or shovel to transfer material into a sealable container  |
| <b>Large Spills</b> | Notify environmental personnel. Prevent runoff to watershed. Control area of spill and collect material in sealable container or covered transport vehicles for removal to use site or disposal facility. |
| <b>Disposal</b>     | Re-use material whenever possible. Waste material must be disposed of in accordance with local, state and federal agencies, at approved secure landfill.  |

**SECTION VIII - CONTROL MEASURES**

|                               |  |
|-------------------------------|--|
| <b>Respiratory Protection</b> | Use NIOSH/MSHA dust mask   |
| <b>Ventilation</b>            | Provide sufficient ventilation to maintain dust concentration below ACGIH TLV              |
| <b>Skin Protection</b>        | Wear gloves to prevent skin abrasions  |
| <b>Eye Protection</b>         | Wear eye protection whenever airborne nuisance dust is generated. Goggles are recommended. |

**SECTION IX - SPECIAL PRECAUTIONS & COMMENTS**

Chemical substance components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substance Control Act (Title 40 CFR Part 710).

All statements, technical information and recommendations contained herein are based on tests and data which this company believes to be currently reliable, but accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto.

**SECTION X - ADDITIONAL INFORMATION****HMIS Ratings:**

|                     |   |                            |                 |
|---------------------|---|----------------------------|-----------------|
| <b>Health</b>       | 0 | <b>Reactivity</b>          | 1               |
| <b>Flammability</b> | 0 | <b>Personal Protection</b> | Dust Respirator |

**FOR MORE INFORMATION CONTACT**  
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**DATE**  
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