



Material Safety Data Sheet

| NFPA | HMIS | Personal Protective Equipment |
|------|--|-------------------------------|
| | Health Hazard 1 Fire Hazard 0 Reactivity 0 | |
| | Reactivity 0 | See Section 15. |

| Section 1. Chemic | Page Number: 1 | | |
|----------------------------|---|-----------------------|---|
| Common Name/ Trade Name | Magnesium sulfate anhydrous | Catalog Number(s). | M1354, YY552, YY1238, M1063, M1064 |
| | | CAS# | 7487-88-9 |
| Manufacturer | SPECTRUM LABORATORY PRODUCTS INC. | RTECS | OM4500000 |
| | 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | TSCA | TSCA 8(b) inventory: Magnesium sulfate anhydrous |
| Commercial Name(s) | Not available. | CI# | Not available. |
| Synonym | Not available. | NCASEOE | IMEDCENCY |
| Chemical Name | Sulfuric acid, magnesium salt (1:1) | | <u>EMERGENCY</u> (24hr) 800-424-9300 |
| Chemical Family | Not available. | CALL (310) 51 | 6-8000 |
| Chemical Formula | MgSO4 | | |
| Supplier | SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248 | | |

| Section 2. Composition and Information or | n Ingredients | | Exposure Limits | | |
|---|---------------|--------------------------|---------------------------|---------------------------|------------|
| Name | CAS # | TWA (mg/m ³) | STEL (mg/m ³) | CEIL (mg/m ³) | %by Weight |
| 1) Magnesium sulfate anhydrous | 7487-88-9 | | | | 100 |
| | | | | | |

Toxicological Data on Ingredients

Not applicable.

Section 3. Hazards Identification

| Potential Acute Health Effects | Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. |
|-------------------------------------|--|
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. |
| | DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition. |

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| Section 4. First Aid Measures | | | |
|-------------------------------|---|--|--|
| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs. | | |
| Skin Contact | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. | | |
| Serious Skin Contact | Not available. | | |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. | | |
| Serious Inhalation | Not available. | | |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight dothing such as a collar, tie, belt or waistband. | | |
| Serious Ingestion | Not available. | | |

| Section 5. Fire and Explosion Data | | | |
|---|--|--|--|
| Flammability of the Product | Non-flammable. | | |
| Auto-Ignition Temperature | Not applicable. | | |
| Flash Points | Not applicable. | | |
| Flammable Limits | Not applicable. | | |
| Products of Combustion | Not available. | | |
| Fire Hazards in Presence of Various Substances | Not applicable. | | |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. | | |
| Fire Fighting Media and Instructions | Not applicable. | | |
| Special Remarks on Fire Hazards | When heated to decomposition it emits toxic fumes of sulfur oxides. | | |
| Special Remarks on Explosion Hazards | Not available. | | |
| Section 6. Accidental F | Release Measures | | |
| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. | | |
| Large Spill | Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. | | |

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|---|---|-------------|--|--|
| Section 7. Handling a | nd Storage | | | |
| Precautions | Do not breathe dust. Keep away from incompatibles such as oxidizing agents, alkalis. | | | |
| Storage | Keep container tightly closed. Keep container in a c | ool, well-v | entilated area. | |
| Section 8. Exposure C | ontrols/Personal Protection | | | |
| Engineering Controls | | | engineering controls to keep airborne levels below ust, fume or mist, use ventilation to keep exposure to | |
| Personal Protection | Safety glasses. Lab coat. Dust respirator. Be sure to | use an ap | proved/certified respirator or equivalent. Gloves. | |
| Personal Protection in Case of a Large Spill | Splash goggles Full suit. Dust respirator. Boots Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. | | | |
| Exposure Limits | Not available. | | | |
| Section 9. Physical and | d Chemical Properties | | | |
| Physical state and appearance | Solid. (Crystals solid. Crystalline solid. Crystalline powder.) | Odor | Odorless. | |
| Molecular Weight | 120.39 g/mole | Taste | Bitter. Saline. | |
| pH (1% soln/water) | Not available. | Color | Colorless. White. | |
| Boiling Point | Not available. | | | |
| Melting Point | Decomposition temperature: 1124°C (2055.2°F) | | | |
| Critical Temperature | Not available. | | | |
| Specific Gravity | Density: 2.66 (Water = 1) | | | |
| Vapor Pressure | Not applicable. | | | |
| Vapor Density | Not available. | | | |
| Volatility | Not available. | | | |
| Odor Threshold | Not available. | | | |
| Water/Oil Dist. Coeff. | Not available. | | | |
| Ionicity (in Water) | Not available. | | | |
| Dispersion Properties | See solubility in water, diethyl ether. | | | |
| Solubility | Easily soluble in hot water. Soluble in cold water. Partially soluble in diethyl ether. Insoluble in acetone. Solubility in Water: 26 g/100 ml at 0 deg. C; 73.8 g/ Solubility in Ether: 1.16 g/100 ml at 18 deg. C. Soluble in alcohol and glycerin. | 100 ml at | 100 deg.C. | |

Magnesium sulfate anhydrous

| | nd Reactivity Data |
|---|---|
| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Incompatible materials |
| Incompatibility with various substances | Reactive with oxidizing agents, alkalis. |
| Corrosivity | Non-corrosive in presence of glass. |
| Special Remarks on Reactivity | Reacts with Calcium Hydroxide to form Magnesium Hydroxide. May react with Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium, and calcium. |
| Special Remarks on Corrosivity | Not available. |
| Polymerization | WII not occur. |
| Section 11. Toxicolog | ical Information |
| Routes of Entry | Inhalation. Ingestion. |
| Toxicity to Animals | LD50: Not available. LC50: Not available. |
| Chronic Effects on Humans | Not available. |
| Other Toxic Effects on Humans | Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation. |
| Special Remarks on Toxicity to Animals | Not available. |
| Special Remarks on Chronic Effects on Humans | May affect genetic material (mutagenic). May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. |
| Special Remarks on other Toxic Effects on Humans | Acute Potential Health Effects Skin: May cause skin irritation. Eyes: May cause eye irritation. |

Section 12. Ecological InformationEcotoxicityNot available.BOD5 and CODNot available.Products of BiodegradationPossibly hazardous short term degradation products are not likely. However, long term degradation products may arise.Toxicity of the Products
of BiodegradationThe product itself and its products of degradation are not toxic.Special Remarks on the
Products of BiodegradationNot available.

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Section 13. Disposal Considerations

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

| Section 14. Transport Information | | |
|-------------------------------------|--|--|
| DOTClassification | Not a DOT controlled material (United States). | |
| Identification | Not applicable. | |
| Special Provisions for Transport | Not applicable. | |
| DOT (Pictograms) | | |

| Section 15. Other R | egulatory Information and Pictograms | | | |
|--|---|--|--|--|
| Federal and State Regulations | TSCA 8(b) inventory: Magnesium sulfate anhydrous | | | |
| California Proposition 65 Warnings | California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. | | | |
| Other Regulations | EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 231-298-2). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS. | | | |
| Other Classifications | WHMIS (Canada) Not controlled under WHMIS (Canada). DSCL (EEC) This product is not classified according to the EU regulations. Not applicable. | | | |
| HMIS (U.S.A.) | Health Hazard 1 National Fire Protection Association (U.S.A.) Farmability Fire Hazard 0 Personal Protection Farmability Personal Protection E Farmability | | | |
| WHMIS (Canada) (Pictograms) | | | | |
| DSCL (Europe) (Pictograms) | | | | |
| Continued on Next | Page | | | |

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|------------------------------|-----------|---|
| TDG (Canada) (Pictograms) | | |
| ADR (Europe) (Pictograms) | | |
| Protective Equipment | | Gloves |
| | | Lab coat. |
| | | Dust respirator. Be sure to use an approved/certified respirator or equivalent. |
| | | Safety glasses. |
| | | |
| | | |
| Section 16. Other Inf | ormation | |
| MSDS Code M3 | 200 | |

| MSDS Code | M3200 | | |
|---------------------------------------|----------------|---|--|
| References | Not available. | | |
| Other Special Considerations | Not available. | | |
| Validated by Sonia Owen on 2/19/2009. | | Verified by Sonia Owen. Printed 3/16/2009. | |
| CALL (310) 516-80 | 00 | | |

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.