Material Safety Data Sheet



Magnesium Sulfate, 7-Hydrate

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Magnesium Sulfate, 7-Hydrate, Crystal

Product Code(s): 84-0884, 87-3376, 85-0520, 87-3402, 97-2747

Size: Various

Chemical Name: Magnesium Sulfate, 7-Hydrate

CAS Number: 10034-99-8 **Formula:** MgSO4.7H2O **Synonyms:** Epsom Salt

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

Section 2 - Hazard Identification

Emergency Overview: Harmful by inhalation, in contact with skin and if swallowed.

Potential Health Effects:

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Magnesium Sulfate (CAS#10034-99-8) 100%

TLV units: N/A **PEL units:** N/A

Section 4 - First Aid Measures

Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. **Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. If

swallowed, rinse mouth with water (only if the person is conscious).

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): Non-combustible

Product Name: Magnesium Sulfate, 7-Hydrate Page 1 of 3

NFPA Rating: Health: 1 Fire: 0

Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A

Autoignition Temperature: N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Avoid contact with skin and eyes.

Do not breathe dust.

Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Suitable for any general chemical storage.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Acceptable Mechanical(General): Yes

Special: No Other: No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 246.5 Melting Point: 1124 °C Decomposes

Boiling Point: N/A Vapor Pressure: N/A

Vapor Density(Air=1): N/A Specific Gravity (H2O=1): 1.67 **Percent Volatile by Volume: 0%** Evaporation Rate (BuAc=1): N/A

Solubility in Water: Soluble **Appearance and Odor:** Clear, colorless, odorless crystals.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition. **Incompatibility (Materials to Avoid):** Alcohols, Hazardous Decomposition Products: SOx, MgO, Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: sub-rat LD50 200 mg/kg

Effects of Overexposure: Acute: See Section 2

> Product Name: Magnesium Sulfate, 7-Hydrate Page 2 of 3

Chronic: N/A

Conditions Aggravated by Overexposure: N/A

Target Organs: N/A

Primary Route(s) of Entry: Inhalation, Ingestion, and Skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: N/A

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: N/A

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Chemical Category: Name List:

No

CERCLA Section 103 RQ(lb.): No

RCRA Section 261.33: No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

U.S. Department of Transportation DOT

International Agency of Research on Cancer **IARC**

Not Available N/A

National Toxicology Program NTP

Occupational Safety and Health Administration **OSHA**

Permissible Exposure Limit PEL

Parts per million ppm

Resource Conservation and Recovery Act **RCRA** Superfund Amendments and Reauthorization Act **SARA**

Threshold Limit Value TLV **TSCA Toxic Substances Control Act**

> Product Name: Magnesium Sulfate, 7-Hydrate Page 3 of 3