Safety Data Sheet

Magnesium Sulfate, 7-Hydrate



Section 1

Product Description

Product Name:Magnesium Sulfate, 7-HydrateRecommended Use:Science education applications

Synonyms: Epsom Salt, Sulfuric Acid, Magnesium Salt
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Magnesium Sulfate, 7-hydrate
 10034-99-8
 100

Section 4

First Aid Measures

Emergency and First Aid Procedures

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

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

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

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

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

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

Hazardous Combustion Products: Sulfur containing gases

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Avoid contact with skin and eyes. Do not breathe dust. **Storage:** Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

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Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)Magnesium Sulfate, 7-hydrateN/AN/AN/AN/A

Control Parameters

Engineering Measures:No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s):None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves: No information available

Section 9 Physical Data

Formula: MgSO4.7H2O Vapor Pressure: No data available

Molecular Weight: 246.5 Evaporation Rate (BuAc=1): No data available
Appearance: Colorless to White Crystals

Vapor Density (Air=1): No data available

Odor: None Specific Gravity: 1.67

Odor Threshold: No data available Solubility in Water: Soluble

pH: 5.0 - 8.0 Log Pow (calculated): No data available

Melting Point: No data available

Autoignition Temperature: No data available

Boiling Point: No data available

Pecomposition Temperature: 1124 C

Flash Point: No data available

Viscosity: No data available

Flammable Limits in Air: No data available Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Ethoxyethynyl Alcohols Hazardous Decomposition Products: Sulfur containing gases

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion.

Symptoms (Acute): Cardiovascular system, Anesthetic properties., Cyanosis, Paralysis

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Magnesium Sulfate 7-hydrate10034-99-8Not determinedNot determinedNot determined

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHAMagnesium Sulfate 7-hydrate10034-99-8Not listedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

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Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Cardiovascular system

Chronic: No information available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.

Persistence: Dissolved into water

Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Magnesium Sulfate, 7-hydrate 10034-99-8

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Not regulated for transport by US DOT. Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2)

Number

Magnesium Sulfate, 7-hydrate 10034-99-8 No No No No No No

Section 16

Additional Information

Revised: 10/13/2015 Replaces: 09/09/2015 Printed: 10-29-2015

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.

Glossary

ACGIH American Conference of Governmental NTP National Toxicology Program **OSHA** Occupational Safety and Health Administration Industrial Hygienists Chemical Abstract Service Number CAS PEL Permissible Exposure Limit **CERCLA** Comprehensive Environmental Response, Parts per million ppm Compensation, and Liability Act **RCRA** Resource Conservation and Recovery Act DOT U.S. Department of Transportation SARA Superfund Amendments and Reauthorization Act **IARC** International Agency for Research on Cancer Threshold Limit Value TLV Not Available **TSCA** Toxic Substances Control Act N/A

IDLH Immediately dangerous to life and health