Safety Data Sheet

Magnesium Sulfate, 0.1 M



Section 1

Product Description

Product Name: Magnesium Sulfate, 0.1 M
Recommended Use: Science education applications
Synonyms: Magnesium Sulfate, Water Solution
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;

GHS Classification:

Other Safety Precautions:

Not a dangerous substance according to GHS classification criteria.

No known OSHA hazards.

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 97.54

 Magnesium Sulfate, 7-hydrate
 10034-99-8
 2.46

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: 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 media suitable to extinguish surrounding fire.

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 Oxides, Metal Oxides,

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

Avoid creating and inhaling spray or mist.

No special spill clean-up considerations. Collect and discard in regular trash.

Section 7

Handling and Storage

Handling: Do not ingest or take internally.

Storage: Suitable for any general chemical storage.

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.

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. Nitrile

Gloves: Nitrile

Section 9 Physical Data

Formula: MgSO4 (aq)

Vapor Pressure: 14 (water)

Molecular Weight: 120.366 (MgSO4)

Evaporation Rate (BuAc=1): < 1

Appearance: Colorless Liquid Vapor Density (Air=1): 0.7 (water)
Odor: None Specific Gravity: Approx. 1.0

Odor Threshold: No data available

pH: No data available

Solubility in Water: Soluble

Log Pow (calculated): No data available

Melting Point: Estimated 0 C

Boiling Point: 100 C

Autoignition Temperature: No data available
Decomposition Temperature: No data available

Flash Point: No data available

Flammable Limits in Air: N/A N/A

Viscosity: No data available

Percent Volatile by Volume: 98.8%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Ethoxyethynyl Alcohols, Strong oxidizing agents

Hazardous Decomposition Products: Metal Oxides, , Sulfur Oxides

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Gastrointestinal,
Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat 90000 mg/kg

Magnesium Sulfate 7-hydrate 10034-99-8

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: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

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

Mobility: No data

Persistence: Dissolved into water

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

Chemical Name CAS Number Eco Toxicity No data available Water 7732-18-5

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 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

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

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

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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

American Conference of Governmental NTP **ACGIH** National Toxicology Program

Industrial Hygienists **OSHA**

Occupational Safety and Health Administration CAS Chemical Abstract Service Number PEL Permissible Exposure Limit

CERCLA Comprehensive Environmental Response, Parts per million ppm

Compensation, and Liability Act Resource Conservation and Recovery Act **RCRA**

DOT U.S. Department of Transportation SARA Superfund Amendments and Reauthorization Act

IARC International Agency for Research on Cancer TLV Threshold Limit Value

N/A Not Available **TSCA** Toxic Substances Control Act

Immediately dangerous to life and health **IDLH**