Magnesium Sulfate, 7-Hydrate



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Magnesium Sulfate, 7-Hydrate Science education applications Epsom Salt, Sulfuric Acid, Magnesium Salt Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

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 2

Acute Toxicity Oral Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Gas	100 % of the mixture consists of ingredient(s) of unknown toxicity
Contains	
Acute Toxicity Inhalation Vapor	100 % of the mixture consists of ingredient(s) of unknown toxicity
Contains	
Acute Toxicity Inhalation Dust/Mist	100 % of the mixture consists of ingredient(s) of unknown toxicity
Contains	5 ()

Section 3

Composition / Information on Ingredients

Chemical Name Magnesium Sulfate, 7-hydrate

10034-99-8

CAS #

% 100

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

Section 6	Spill or Leak Procedures		
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.		
Hazardous Combustion Products:	Sulfur containing gases		
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.		

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.

Handling and Storage

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

Protection Information

	ACGIH		OSH	A PEL	
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)	
Magnesium Sulfate, 7-hydrate	N/A	N/A	N/A	N/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 availab	le			

Section 9

Section 7

Section 8

Physical Data

Formula: MgSO4.7H2O Molecular Weight: 246.5 Appearance: Colorless to White Crystals Odor: None Odor Threshold: No data available pH: 5.0 - 8.0 Melting Point: No data available **Boiling Point:** No data available Flash Point: No data available Flammable Limits in Air: No data available

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: 1.67 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: 1124 C Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity: **Chemical Stability:** Conditions to Avoid: **Incompatible Materials: Hazardous Decomposition Products:** Hazardous Polymerization:

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Ethoxyethynyl Alcohols Sulfur containing gases Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): **Delayed Effects:**

Ingestion. Cardiovascular system, Anesthetic properties., Cyanosis, Paralysis No data available

Acute Toxicity: **Chemical Name** Magnesium Sulfate 7-hydrate

CAS Number 10034-99-8

Oral LD50 Not determined

Dermal LD50 Not determined

Inhalation LC50 Not determined

Carcinogenicity: Chemical Name Magnesium Sulfate 7-hyd	drate	CAS Number 10034-99-8	IARC Not listed	Not listed	I TP d No	OSHA t listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a s No evidence of ne	eratogenic effect (bin sensitization effect. gative reproductive e s System, Cardiovas available	effects. scular system			
Section 12			cological [Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:		rial is not expected to rial is expected to ha into water			not absorb to mo	ost soil types.
Chemical Name Magnesium Sulfate, 7-hy	drate	CAS Number 10034-99-8	Eco Toxicity			
Section 13		Dis	posal Inform	mation		
Disposal Methods: Waste Disposal Code(s	со	spose in accordance ntact a permitted wa ot Determined				ons. Always
Section 14		Tran	sport Infor	mation		
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		Regi	latory Info	rmation		
TSCA Status:	All	components in this	product are on the	TSCA Inventory.		
Chemical Name	CAS Numbe	§ 313 Nam er	ne § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Magnesium Sulfate, 7-hy	drate 10034-	99-8 No	No	No	No	No

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.

Replaces: 09/03/2014

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP OSHA	National Toxicology Program Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	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	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health