# Safety Data Sheet

# Magnesium Sulfate, Anhydrous



#### **Section 1**

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Magnesium Sulfate, Anhydrous Science education applications Epsom Salts 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;

GHS Classification:

Section 2

**Other Safety Precautions:** 

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

**Composition / Information on Ingredients** 

First Aid Measures

#### Section 3

<u>Chemical Name</u> Magnesium Sulfate, Anhydrous <u>CAS #</u> 7487-88-9 <u>%</u> 100

#### Section 4

#### **Emergency and First Aid Procedures**

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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** 

Hazardous Combustion Products:	Sulfur Oxides
Fire and/or Explosion Hazards:	N/A
	breathing apparatus.
Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained

#### **Section 6**

#### **Spill or Leak Procedures**

Steps to Take in Case Material Is	No adverse health affects expected from the clean-up of spilled material. Ventilate the contaminated area.
Released or Spilled:	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.
	Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).

#### **Section 7**

### Handling and Storage

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

# Safety Data Sheet

#### Storage Code: Green - general chemical storage

Section 8	Protection I	nformation			
	ACC	<u>SIH</u>	OSH	A PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
No data available	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures: No exposure limits exist for the constituents of this product. General room v might be required to maintain operator comfort under normal conditions of u					
Personal Protective Equipment (PPE):					
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: Gloves:	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.				
Gioves:	Nitrile				
Section 9	Physic	al Data			

- Appearance: White to off-white Solid Odor Threshold: No data available Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: None @ 21 °C

#### Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.65 Solubility in Water: Appreciable (>10%) Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

#### Reactivity Data

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

# No data available

Stable under normal conditions. None known. Moisture (will lead to product performance degradation) Strong oxidizing agents Sulfur Oxides Will not occur

#### Section 11

Section 10

#### Toxicity Data

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

Formula: MgSO4

Molecular Weight: 120.36

Odor: No data available

pH: 7.0-9.5 (aq. sol.)

N/A N/A

Acute Toxicity: **Chemical Name** No data available

**Carcinogenicity: Chemical Name** No data available No data available

**CAS Number** 7487-88-9

Oral LD50 Not determined

Dermal LD50 Not determined

Inhalation LC50 Not determined

**CAS Number** 7487-88-9

Not listed

IARC

NTP Not listed

**OSHA** Not listed

**Chronic Effects: Mutagenicity:** 

No evidence of a mutagenic effect.

# **Safety Data Sheet**

Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic: No evidence of a teratogenic effect (birth defect). No evidence of a sensitization effect. No evidence of negative reproductive effects.

See Section 2

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

### Section 12

**Ecological Data** 

Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is n No data No data No data No data No data No data	not expected to	be harmful to the	e ecology.		
<b>Chemical Name</b> Magnesium Sulfate, Anhydrous		AS Number Eco Toxicity 87-88-9 24 HR LC50 LEPOMIS MACROCHIRUS 19000 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 1700 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS 2700 MG/L				
Section 13		Dis	posal Infor	mation		
Disposal Methods: Waste Disposal Code(s):	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined					
Section 14		Trar	sport Info	rmation		
Ground - DOT Proper Shipping N/A	J Name:			r <b>oper Shipping N</b> a d for air transport b		
Section 15		Regu	latory Info	ormation		
TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Nan	ne § 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7487-88-9	No	No	No	No	No
Section 16 Additional Information						
Revised: 09/09/2015	Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015					
The information provided in this (N	Material) Safety Da	ta Sheet repr	esents a compilati	ion of data drawn o	directly from varie	ous sources

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Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	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