

# SAFETY DATA SHEET

Creation Date 27-Jul-2010

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Magnesium sulfate, anhydrous

Cat No. :

CAS-No Synonyms 7487-88-9 Epsom salts.; Magnesium sulfate

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

33337

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

# Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

### **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)

None identified

2	Composition	Information on	Ingradiants
J. 1	Composition	momation on	ingreulents

Component	CAS-No	Weight %
Magnesium sulfate	7487-88-9	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.	
Ingestion	Do NOT induce vomiting. Get medical attention.	
Most important symptoms and	No information available.	
effects Notes to Physician	Treat symptomatically	

5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media	No information available	
Flash Point	No information available	
Method -	No information available	

## Autoignition Temperature Explosion Limits Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

# Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

# Hazardous Combustion Products

Sulfur oxides. Magnesium oxides.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1	<b>Flammability</b> 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective ec formation.	uipment as required. Ensure ac	lequate ventilation. Avoid dust
Environmental Precautions	See Section 12 for addition	al Ecological Information.	
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Methods for Containment and Clean Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

	dust formation. Do not breathe dust. Avoid contact with skin, eyes or clothing.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
8. E	xposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.	
Engineering Measures	None under normal use conditions.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	7.9 5% aq.sol
Melting Point/Range	1124 °C / 2055.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	2.65
Solubility	26g/100ml (0°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	> 700°C
Viscosity	Not applicable
Molecular Formula	Mg O4 S
Molecular Weight	120.37

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomp	osition Products	s Sulfur oxides, Mag	gnesium oxides			
Hazardous Polymer	ization	Hazardous polyme	erization does not o	occur.		
Hazardous Reaction	ns	None under norma	al processing.			
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information		No acute toxicity in	nformation is availa	ble for this produc	t	
Component Informa Toxicologically Syn Products		No information ava	ailable			
Delayed and immed	liate effects as w	ell as chronic effe	ects from short an	d long-term expo	sure	
Irritation		No information ava	ailable			
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium sulfate	7487-88-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effec	ts	No information available.				
Developmental Effe	ects	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s,both acute and	No information ava	ailable			
Endoarino Diarunto		No information ou	ailabla			

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity . Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Magnesium sulfate			= 84000 mg/L EC50 Photobacterium phosphoreum 30 min	EC50: = 1700 mg/L, 24h (Daphnia magna) EC50: 266.4 - 417.3 mg/L, 48h Static (Daphnia magna)
Persistence and Degrada	ability Soluble in w	ater Persistence is unlikely	based on information avai	ilable.
<b>Bioaccumulation/ Accun</b>	nulation No informat	ion available.		
Mobility	Will likely be	e mobile in the environment	due to its water solubility.	

	13. Disposal considerations
Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.	
	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

# United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Magnesium sulfate	7487-88-9	Х	ACTIVE	-

### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

# International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Magnesium sulfate	7487-88-9	Х	-	231-298-2	Х	Х	Х	Х	KE-22752

## U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland	This product does not contain any DHS chemicals.

Security

# Other International Regulations

Mexico - Grade

No information available

	16. Other information	
Prepared By	y Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com	
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Print Date	14-Feb-2020	
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## Disclaimer

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# **End of SDS**