

SAFETY DATA SHEET

Creation Date 24-Feb-2014	Revision Date 1-Dec-2022	Revision Number 1		
1. Identification				
Product Name	Magnesium Sulfate Heptahydrate (All Grades)			
Cat No. :	C5070, C5072, C5080			
Synonyms	No information available.			
Recommended Use	Laboratory chemicals			
Uses advised against	No Information available			
Details of the supplier of the safety data sheet				
Company	Emergency Telephone Number			

Company Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918

Infotrac: 800-535-5053

2. Hazard(s) identification

Classification

Classification under 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

3. Composition / information on ingredients

Haz/Non-haz

Component	CAS-No	Weight %
Magnesium sulfate heptahydrate	10034-99-8	>95
Magnesium sulfate	7487-88-9	0

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if symptoms occur
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur
Ingestion	Do not induce vomiting. Obtain medical attention.
Most important symptoms/effects	No information available
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 Method -	No information available. No information available.
Autoignition Temperature Explosion Limits	No information available.
Upper Lower	No data available No data available
Sensitivity to mechanical impact	No information available.
Sensitivity to static discharge	No information available.

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

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.

NFPA Health Flammability Instability **Physical hazards** 1 N/A 0 1 6. Accidental release measures **Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid release to the environment. See Section 12 for additional ecological Information. **Environmental Precautions** Methods for Containment and Clean Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Up 7. Handling and storage

	7. Handling and storage	
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and eyes. Do not breathe dust.	
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
8.	Exposure controls / personal protection	
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.	
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
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.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice	

9. Physical and chemical properties

Solid White odorless

1124°C

1.678

> 150°C

246.48

No information available. 5-8.2 5% aq. sol.

No information available. No information available. No information available. No information available.

No information available. No data available No information available.

No information available. Mg O4 S . 7 H2 O

No data available No data available <0.1 mmHg @ 20 °C No information available.

Physical State Appearance Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition temperature
Viscosity
Molecular Formula
Molecular Weight

10. Stability and reactivity

Reactive Hazard

None known, based on information available.

Stability	Stable under normal conditions. Hygroscopic.
Conditions to Avoid	Avoid dust formation. Excess heat. Exposure to moist air or water.
Incompatible Materials	None known
Hazardous Decomposition Products	Sulfur oxides, Magnesium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing

11. Toxicological information

Acute Toxicity

Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.	Product Information Oral LD50 Dermal LD50 Mist LC50	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information Toxicologically Synergistic No information available. Products	Toxicologically Synergistic	No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available.

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 heptahvdrate	10034-99-8	Not listed				
	- /					N
Magnesium sulfate	7487-88-9	Not listed				

Mutagenic Effects	No information available.
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure	None known.
STOT - repeated exposure	None known.
Aspiration hazard	No information available.
Symptoms / effects, both acute and delayed	No information available.
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not bee

The toxicological properties have not been fully investigated.. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Magnesium sulfate	2700 mg/L EC50 = 72 h	2610-3080 mg/L LC50 96 h 19000 mg/L LC50 24 h	= 84000 mg/L EC50 Photobacterium phosphoreum 30 min	1700 mg/L EC50 = 24 h 266.4 - 417.3 mg/L EC50 48 h
		19000 mg/L LC50 24 h		2

Persistence and Degradability	No information available.
Bioaccumulation/ Accumulation	No information available
Mobility	No information available

13. Disposal considerations

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Waste Disposal Methods
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Chemical waste generators must determine whether a discarded chemical is classified as a 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						
TDG	Not regulated						
IATA	Not regulated						
IMDG/IMO	Not regulated						

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL
Magnesium sulfate heptahydrate	-	Х	-	-	-		Х	Х	Х	Х	-
Magnesium sulfate	Х	Х	-	231-298-2	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable						
SARA 313	Not applicable						
SARA 311/312 Hazardous Categoriza Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard		No No No No					
Clean Water Act	Not applicable						
Clean Air Act	Not applicable						
OSHA Occupational Safety and Health Not applicable	Administration						
CERCLA Not Applicable							
California Proposition 65	This product does not contain any Proposition 65 chemicals.						
State Right-to-Know	Not applicable						
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N						
U.S. Department of Homeland Secur This product does not contain any DHS							
Other International Regulations							
Mexico - Grade	No information available						
Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.							

WHMIS Hazard Class

Non-controlled

16. Other information

Prepared By	,

Creation Date Revision Date Print Date Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com 24-Feb-2014

1-Dec-2022 1-Dec-2022 **Revision Summary**

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

