

SAFETY DATA SHEET

Creation Date 01-Dec-2009

Revision Date 14-Feb-2020

Revision Number 2

1. Identification **Product Name** Magnesium nitrate hexahydrate Cat No. : 11564 CAS-No 13446-18-9 **Synonyms** Magnesium dinitrate hexahydrate; Nitric acid, magnesium salt hexahydrate. **Recommended Use** Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet Company 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

	0. compositio						
Compone	ent	CAS-No	Weight %				
Magnesium nitrate hexahydrate		13446-18-9	>95				
	4.	First-aid measures					
General Advice	If symptoms	persist, call a physician.					
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 plenty of water for at least 15 minutes. Get medical attention if symptoms occur.					
Inhalation		Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion		Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms a effects	and None reason	ably foreseeable.					
Notes to Physician	Treat sympto	omatically					

3. Composition/Information on Ingredients

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available st No information available No information available
Specific Hazards Arising from the (Keep product and empty container aw	Chemical vay from heat and sources of ignition. Thermal decomposition can lead to release of irritating

itating a sources o ıgı IIIO iei gases and vapors.

Hazardous Combustion Products

Nitrogen oxides (NOx). 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** 2 N/A 1 1 6. Accidental release measures

Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.				
Environmental Precautions	Should not be released into the environment.				
Methods for Containment and Clear Up	n Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.				
	7. Handling and storage				
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on 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	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.				
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. Tight sealing safety goggles.				
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	
No information available	
5.0-8.2 5% aq. sol	
89 °C / 192.2 °F	
330 °C / 626 °F	
Not applicable	
Not applicable	
No information available	
No data available	
No data available	
No information available	
Not applicable	
No information available	
Soluble in water	
No data available	
330 °C	
Not applicable	
	White Odorless No information available 5.0-8.2 5% aq. sol 89 °C / 192.2 °F 330 °C / 626 °F Not applicable Not applicable No information available No data available No data available No data available No information available Not applicable No information available Soluble in water No data available

Molecular Formula Molecular Weight

Mg N2 O6 . 6 H2 O 256.4

10. Stability and reactivity						
Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Combustible material.					
Incompatible Materials	Strong acids, Strong reducing agents, Organic materials, Finely powdered metals					
Hazardous Decomposition Products Nitrogen oxides (NOx), Magnesium oxides						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

11. Toxicological information

Acute Toxicity

Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium nitrate hexahydrate	LD50 = 5440 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		

The table below indicates whether each agency has listed any ingredient as a carcinogen.

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

Irritation

No information available

Sensitization No information available

Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Magnesium nitrate hexahydrate	13446-18-9	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable		-			
Reproductive Effect	is	No information ava	ailable.					
Developmental Effe	cts	No information ava	ailable.					
Teratogenicity		No information available.						
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information available						
Symptoms / effects delayed	,both acute and	No information available						
Endocrine Disrupto	r Information	No information available						
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.						

12. Ecological information						
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.					
Bioaccumulation/ Accumulation	No information available.					
Mobility	Will likely be 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 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			
DOT TDG IATA	Not regulated			
IATA	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 nitrate hexahydrate	13446-18-9	-	-	-

Legend:

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

X - Listed

'-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

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 nitrate hexahydrate	13446-18-9	-	-	-	Х	Х	Х	Х	-

U.S. Federal Regulations

Health Administration

SARA 313

Component		CAS-No	Weight %	SARA 313 - Threshold Values %
Magnesium nitrate hexahyd	rate	13446-18-9	>95	1.0
SARA 311/312 Hazard Categories	See section 2	2 for more information		

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Magnesium nitrate	-	Х	-	Х	-
hexahydrate					

U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Slight risk, Grade 1

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date Revision Date Print Date Revision Summary	01-Dec-2009 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 13446-18-9/2.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS