

SAFETY DATA SHEET

Creation Date 01-Dec-2009

Revision Date 28-Mar-2024

Revision Number 3

1. Identification

Magnesium dinitrate hexahydrate; Nitric acid, magnesium salt hexahydrate.

Product Name

Magnesium nitrate hexahydrate

Cat No. : A10329

CAS No Synonyms

Synonyms Recommended Use

Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

13446-18-9

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:** 001-703-527-3887

2. Hazard(s) identification

Classification

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

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

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3 Com	position/Info	ormation	on I	Ingredients
J . UU III	position/init	Jination		ngreatents

Component Magnesium nitrate hexahydrate		CAS No	Weight %	
		13446-18-9	>95	
	4. Fir	st-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 symptoms occur.	move to fresh air. If not breathing, give artificial respiration. Get medical attention if nptoms occur.		
Ingestion	Clean mouth with symptoms occur.	ean mouth with water and drink afterwards plenty of water. Get medical attention if nptoms occur.		
Most important symptoms and effects	None reasonably	None reasonably foreseeable.		
Notes to Physician	Treat symptomat	symptomatically		

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	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating 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	1	1	N/A

	6. Accidental release measures
Personal Precautions	O. ACCIDENTIAL LETERASE ITTERASULES 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 Cle Up	an 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. Incompatible Materials. Strong acids. Strong reducing agents. Organic materials. Finely powdered metals.
8. E	Exposure 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.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9. Physical and chemical properties
Physical State	Solid

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pН	5.0-8.2 5% aq. sol
Melting Point/Range	89 °C / 192.2 °F
Boiling Point/Range	330 °C / 626 °F
Flash Point	Not applicable
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 Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight

Not applicable No information available Soluble in water No data available No information available 330 °C Not applicable 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		LD50 Oral		LD50 Dermal	LC50	Inhalation
Magnesium nitrate he	xahydrate	_D50 = 5440 mg/kg(R	at)	Not listed	No	ot listed
Toxicologically Syne Products Delayed and immedi	-	No information ava		d long-term expo	sure_	
Irritation		No information ava	ilable			
Sensitization No information available						
Carcinogenicity		The table below inc	licates whether ea	ach agency has list	ted any ingredient	as a carcinoger
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Magnesium nitrate	13446-18-9	Not listed	Not listed	Not listed	Not listed	Not listed

Magnesium nitrate hexahydrate	13446-18-9	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	No information available					
Reproductive Effects		No information available.						
Developmental Effects		No information available.						
Teratogenicity		No information available.						
STOT - single exposure STOT - repeated exposure		None known 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 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

	14. Transport Information	
DOT	Not regulated	
<u>DOT</u> <u>TDG</u> 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 US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

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

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Magnesium nitrate hexahydrate	13446-18-9	-	-	-	Х	Х		Х	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Magnesium nitrate hexahydrate	13446-18-9	>95	1.0 %	-

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

U.S. Department of Transportation

U.S. Department of Homeland	This product does not contain any DHS chemicals.
DOT Severe Marine Pollutant	Ν
DOT Marine Pollutant	Ν
Reportable Quantity (RQ):	Ν
olo: Department of Transportation	

Security

Other International Regulations

Mexico - Grade Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Not applicable

	Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
			Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
			Subject to Authorization	on Certain Dangerous	Candidate List of
			-	Substances	Substances of Very High
					Concern (SVHC)
Mag	nesium nitrate hexahydrate	13446-18-9	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic	Ozone Depletion	Restriction of
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			Pollutant	Potential	Hazardous Substances (RoHS)
Magnesium nitrate hexahydrate	13446-18-9	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Magnesium nitrate hexahydrate	13446-18-9	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	01-Dec-2009 28-Mar-2024 28-Mar-2024 New emergency telephone response service provider.

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