

SAFETY DATA SHEET

Creation Date 01-December-2009

Revision Date 17-January-2018

Revision Number 6

1. Identification			
Product Name	Product Name Magnesium nitrate hexahydrate		
Cat No. :	M46-212; M46-500		
CAS-No Synonyms	13446-18-9 Magnesium dinitrate hexahydrate; Nitric acid, magnesium salt hexahydrate (Crystalline/Certified ACS)		
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the	safety data sheet		
<u>Company</u> Importer/Distributor Fisher Scientific	Manufacturer Fisher Scientific		

Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Not classified under the Hazardous Products Regulations (SOR/2015-17)

One Reagent Lane Fair Lawn, NJ 07410

Tel: (201) 796-7100

Based on available data, the classification criteria are not met

Label Elements None required

3. Composition/Information on Ingredients

Component			CAS-No	Weight %		
Magnesium nitrate hexahyd	rate	13	3446-18-9	>95		
	Λ	First-aid n	noasuros			
	4.		neasures			
General Advice	If symptoms	persist, call a ph	ysician.			
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 imn symptoms or		enty of water for at leas	st 15 minutes. Get medical attention if		
Inhalation	Move to fresh symptoms or		hing, give artificial resp	piration. Get medical attention if		
Ingestion	Clean mouth symptoms or		drink afterwards plenty	of water. Get medical attention if		
Most important symptoms/effects Notes to Physician	None reason Treat sympto	ably foreseeable matically	ð.			
	5. Fi	re-fighting	measures			
Suitable Extinguishing Media	Use water sp	ray, alcohol-resi	stant foam, dry chemic	cal or carbon dioxide.		
Unsuitable Extinguishing Media	No information	on available				
Flash Point Method -	Not applicable No information available					
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data avail No data avail No informatic No informatic	able on 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 2	Flammab 1	ility	Instability 1	Physical hazards N/A		
	6. Accio	lental rele	ase measures	S		
Personal Precautions Environmental Precautions			Use personal protectiv he environment.	e equipment. Avoid dust formation.		
Methods for Containment and Clear Up		vacuum up spill ed containers fo		able container for disposal. Keep in		

	7. Handling and storage
Handling	Wear personal protective equipment. 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. 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection	Goggles	Goggles							
Hand Protection	Wear appropriate protectiv	Wear appropriate protective gloves and clothing to prevent skin exposure.							
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthrough time See manufacturers recommendations	Glove thickness -	Glove comments Splash protection only						

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

	9. Physical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	5.0-8.2 5% aq. sol
Melting Point/Range	89 °C / 192.2 °F
Boiling Point/Range	330 °C / 626 °F

Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight**

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 Mg N2 O6 . 6 H2 O 256.4

10. Stability and reactivity

None known, based on information available					
Stable under normal conditions.					
Incompatible products. Excess heat. Avoid dust formation. Combustible material.					
Strong acids, Strong reducing agents, Organic materials, Powdered metals					
Hazardous Decomposition Products Nitrogen oxides (NOx), Magnesium oxides					
Hazardous polymerization does not occur.					
None under normal processing.					
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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		

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 nitrate hexahydrate	13446-18-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information ava				

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.		

 Use 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			

All of the components in the product are on the following Inventory lists: Australia Complete Regulatory Information contained in following SDS's X = listed China Canada The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC Philippines

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium nitrate hexahydrate	-	-	-	-	-		Х	-	Х	Х	-

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
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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