

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 01-Dec-2009

Revision Date 10-May-2016

Revision Number 4

1. Identification

Magnesium nitrate hexahydrate

Product Name

Cat No. : M46-212, M46-500

Synonyms

Recommended Use Laboratory chemicals.

Uses advised against No Information available Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

Magnesium dinitrate hexahydrate; Nitric acid, magnesium salt hexahydrate.

2. Hazard(s) identification

Classification

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

Label Elements

Signal Word

None required.

Hazard Statements

Precautionary Statements <u>Hazards not otherwise classified (HNOC)</u> None identified

Personal Precautions Environmental Precautions

3. Co	mpositio	n / inform	ation on ingr	redients		
Component			CAS-No	Weight %		
Magnesium nitrate hexahyo						
	4.	First-aid r	neasures			
General Advice	If symptoms	persist, call a ph	ysician.			
Eye Contact		liately with plent		er the eyelids, for at least 15 minutes. Get		
Skin Contact	Wash off imn symptoms or		enty of water for at le	east 15 minutes. Get medical attention if		
Inhalation	Move to frest symptoms or		hing, give artificial re	espiration. Get medical attention if		
Ingestion		Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically					
	5. Fi	re-fighting	measures			
Suitable Extinguishing Media	Use water sp	oray, alcohol-res	stant foam, dry chen	nical or carbon dioxide.		
Unsuitable Extinguishing Media	No information	on available				
Flash Point Method -	Not applicabl No informatio					
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data avai No data avai t No informatic No informatic	lable on available				
Specific Hazards Arising from the C Keep product and empty container aw gases and vapors.		ind sources of ig	nition. Thermal deco	omposition can lead to release of irritating		
Hazardous Combustion Products Nitrogen oxides (NOx) Magnesium ox Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefig		nand, MSHA/NIOSH	l (approved or equivalent) and full		
NFPA Health 2	Flammab 1	ility	Instability 1	Physical hazards N/A		
	6. Accio	lental rele	ase measure	es		

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment.

Up	suitable, closed containers for disposal.
	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. E	Exposure controls / personal protection
Exposure Guidelines	This product does not contain any known or suspected reproductive hazards
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. Tightly fitting safety goggles.
Skin and body protection	Long sleeved clothing.
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

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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	Not applicable °C / °F
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	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/w	vater No data available
Autoignition Temperature	
Decomposition Temperature	330 °C
Viscosity	Not applicable
Molecular Formula	Mg N2 O6 . 6 H2 O
Molecular Weight	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.
Incompatible Materials	Strong acids, Strong reducing agents, Organic materials, Powdered metals
Hazardous Decomposition Product	s 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 Informa	tion							
Componen		LD50 Oral		LD50 Dermal				
Magnesium nitrate he	exahydrate	LD50 = 5440 mg/kg (Rat)	Not listed	No	ot listed		
Toxicologically Syn Products	•		No information available					
Delayed and immed	iate effects	as well as chronic eff	ects from short a	nd long-term expo	osure			
Irritation		Irritating to eyes,	respiratory system	n and skin				
Sensitization		No information av	vailable					
Carcinogenicity		The table below i	ndicates whether e	each agency has lis	ted any ingredient	as a carcinogen.		
Component	CAS-N	o IARC	NTP	ACGIH	OSHA	Mexico		
Magnesium nitrate hexahydrate	13446-18	3-9 Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information av	vailable					
Reproductive Effects		No information av	No information available.					
Developmental Effe	cts	No information av	No information available.					
Teratogenicity		No information av	formation available.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information av	No information available					
Symptoms / effects delayed	,both acute	and No information av	No information available					
	crine Disruptor Information No information available							
Other Adverse Effect	cts	The toxicological	The toxicological properties have not been fully investigated.					
		12. Eco	logical info	rmation				

Ecotoxicity Do not empty into drains.

Persistence and Degradability Bioaccumulation/ Accumulation

Soluble in water Persistence is unlikely based on information available. 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	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	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium nitrate	-	-	-	-	-		Х	-	Х	Х	-
hexahydrate											

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

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

SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Hazard Reactive Hazard		
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	

OSHA 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

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

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

Slight risk, Grade 1

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

D2B Toxic materials



16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date Print Date Revision Summary 01-Dec-2009 10-May-2016 10-May-2016 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

Prepared By

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