

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 17-Sep-2014	Revision Date 17-Sep-2014	Revision Number 1
	1. Identification	
Product Name	Magnesium Hydroxide (USP/FCC)	
Cat No. :	M342-500	
Synonyms	Magnesia magma; Magnesium Hydrate, Milk of Magnesia.	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safe	No Information available ety data sheet	
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887	

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area **Inhalation** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Comp	onent	CAS-No	Weight %	
Magnesium hydroxide		1309-42-8	95 - 100	
	Λ [First-aid measures		
	4. г	nist-alu measures		
Eye Contact	Rinse immedia Obtain medica	ately with plenty of water, also under t al attention.	he eyelids, for at least 15 minutes.	
Skin Contact		Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.		
Inhalation	Move to fresh occur.	e to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms		
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	Dry chemical.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available

Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Magnesium oxides

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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	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions	Use personal protective eq Avoid contact with skin, eye	uipment. Ensure adequate ven	tilation. Avoid dust formation.
Environmental Precautions	Avoid release to the enviro		
Methods for Containment and Cle Up	an Sweep up or vacuum up sp formation.	village and collect in suitable co	ntainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling		quipment. Ensure adequate ve es and clothing. Avoid ingestior	
Storage	Keep containers tightly close	sed in a dry, cool and well-venti	lated place.
8. E	Exposure controls	/ personal protection	on
Exposure Guidelines	This product does not cont established by the region s		th occupational exposure limits
Engineering Measures Personal Protective Equipment	•	n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
Eye/face Protection		e eyeglasses or chemical safet ection regulations in 29 CFR 19	
Skin and body protection Respiratory Protection	Follow the OSHA respirato EN 149. Use a NIOSH/MSI	e gloves and clothing to preven r regulations found in 29 CFR 1 HA or European Standard EN 1 ed or if irritation or other sympt	910.134 or European Standard 49 approved respirator if
Hygiene Measures		good industrial hygiene and sa	

	9. Physical and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	9.5 - 10.5 (Slurry)
Melting Point/Range	350 °C / 662 °F
Boiling Point/Range	No information available
Flash Point	No information available

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

Aspiration hazard

No information available No information available

No data available No data available No information available No information available 2.36 (H2O=1) Insoluble in water No data available No information available No information available No information available Mg(OH)2 58.3178

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Hygroscopic. Air sensitive.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to air. Exposure to moist air or water.		
Incompatible Materials	Powdered metals		
Hazardous Decomposition Product	s Magnesium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

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Acute Toxicity						
Product Information		No acute toxicity in	nformation is availa	able for this produc	t	
Component Informa Toxicologically Syn Products		No information ava	ailable			
	iate effects as w	s well as chronic effects from short and long-term exposure				
Irritation		Irritating to eyes, re	espiratory system	and skin		
Sensitization		No information ava	ailable			
Sensilization						
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.
	CAS-No	The table below in	dicates whether ea	ach agency has list ACGIH	ed any ingredient	as a carcinogen. Mexico
Carcinogenicity	CAS-No 1309-42-8					
Carcinogenicity Component		IARC	NTP Not listed	ACGIH	OSHA	Mexico
Carcinogenicity Component Magnesium hydroxide	1309-42-8	IARC Not listed	NTP Not listed ailable	ACGIH	OSHA	Mexico
Carcinogenicity Component Magnesium hydroxide Mutagenic Effects	1309-42-8 s	IARC Not listed No information available	NTP Not listed ailable ailable.	ACGIH	OSHA	Mexico
Carcinogenicity Component Magnesium hydroxide Mutagenic Effects Reproductive Effect	1309-42-8 s	IARC Not listed No information available No information available	NTP Not listed ailable ailable. ailable.	ACGIH	OSHA	Mexico

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
Ecotoxicity Do not empty into drains.	

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

	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				

All of the components in the product are on the following Inventory lists: Australia 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 Europe TSCA Korea Philippines Japan

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Magnesium hydroxide	Х	Х	-	215-170-3	-		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 a

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No

Magnesium Hydroxide (USP/	FCC)	Revision Date 17-Sep-2014
Reactive Hazard	No	
Clean Water Act	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety and He Not applicable	ealth Administration	
CERCLA Not applicable		
California Proposition 65	This product does not contain any Proposition 65 chemica	als
State Right-to-Know	Not applicable	
U.S. Department of Transportation	on	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homeland Se This product does not contain any		
Other International Regulations		
Mexico - Grade	No information available	
Canada This product has been classified the MSDS contains all the inform	I in accordance with the hazard criteria of the Controlled P nation required by the CPR	Products Regulations (CPR) and
WHMIS Hazard Class	D2B Toxic materials	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	17-Sep-2014 17-Sep-2014 17-Sep-2014 This document has been updated to comply with the US 0 replacing the current legislation under 29 CFR 1910.1200 Harmonized System of Classification and Labeling of Che	to align with the Globally

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.

