

## SAFETY DATA SHEET

Creation Date 22-Jun-2009

Revision Date 14-Feb-2020

**Revision Number** 2

1. Identification

**Product Name** 

Magnesium chloride

Cat No. :

CAS-No Synonyms 7786-30-3 No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

12315

<u>Company</u>

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

Classification under 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

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Magnesium chloride	7786-30-3	>95

4. First-aid measures						
General Advice	If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.					
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects Notes to Physician	None reasonably foreseeable.					
	Treat symptomatically					

5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Reacts violently with water. Thermal decomposition can lead to release of irritating gases and vapors.

### Hazardous Combustion Products

Magnesium oxides. Hydrogen chloride gas.

### 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.

<u>NFPA</u> Health 1	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	formation. Should not be released int	on. Use personal protective equip o the environment. See Section	·
	Information.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes or clothing. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere.
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	Impervious gloves.
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. When using do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. Physical and chemical properti	emical properties
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9. Physica	i and chemical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	708 °C / 1306.4 °F
Boiling Point/Range	1412 °C / 2573.6 °F @ 760 mmHg
Flash Point	No information available
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/water	No data available
Autoignition Temperature	
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	CI2 Mg
Molecular Weight	95.21

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water. (When mixed with limited amount of water enough heat may be generated to cause frothing).
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	<b>s</b> Magnesium oxides, Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing. Reacts violently with water.

11. Toxicological information

Acute Toxicity

## Product Information

Component Informa	ation							
Componer		LD50 Oral		LD50 Dermal	LC50 I	nhalation		
Magnesium ch	loride	LD50 = 2800 mg/kg (R	.D50 = 2800 mg/kg (Rat) Not		Not	lot listed		
Toxicologically Synergistic         No information available           Products         Delayed and immediate effects as well as chronic effects from short and long-term exposure								
Irritation		May cause irritation	May cause irritation					
Sensitization		No information avai	lable					
Carcinogenicity		The table below inc	licates whether e	each agency has listed	any ingredient a	as a carcinogen.		
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico		
Magnesium chloride	7786-30-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects Reproductive Effec			No information available.					
Teratogenicity	Developmental Effects         No information available.           Teratogenicity         No information available.							
STOT - single expo	Teratogenicity     No information available.       STOT - single exposure     None known       STOT - repeated exposure     None known							
Aspiration hazard No information available								
Symptoms / effects delayed	s,both acute ar	nd No information avai	No information available					
Endocrine Disrupto	or Information	No information avai	lable					

Other Adverse Effects See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Component	Component Freshwater Alg		Freshwater Fish	Microtox	Water Flea			
Magnesium chloride	EC50: 22	200 mg/L/72h	Pimephales promelas:	EC50 Pseudomonas putida:	EC50 : 1400 mg/L/24h			
			EC50: 2.12 g/L:96H	EC50:26,14 g/L/h				
				Photobacterium				
				phosphoreum: EC50: 36,3				
				mg/L/30 min				
				Photobacterium				
				phosphoreum: EC50: 77,2				
	L	<u> </u>		mg/L/24 h				
<b>Persistence and Degradability</b> 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	5	Chemical wa	ste generators must deter	mine whether a discarded of	chemical is classified as a			
			aste. Chemical waste ger	nerators must also consult le	ocal, regional, and			
national hazardous waste regulations to ensure complete and accurate class								
14. Transport information								
DOT Not regulated								
TDG		0						
		•	Not regulated					
		Not regulated						
IMDG/IMO		Not regulated	1					

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Magnesium chloride	7786-30-3	Х	ACTIVE	-

15. Regulatory information

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

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

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 chloride	7786-30-3	Х	-	232-094-6	Х	Х	Х	Х	KE-22691

### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable

<b>OSHA</b> - 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	Not applicable
<b>U.S. Department of Transportation</b> 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	No information available

	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	22-Jun-2009 14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 7786-30-3.

### 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**