

# SAFETY DATA SHEET

Creation Date 22-Jun-2009

Revision Date 24-Dec-2021

Revision Number 5

## 1. Identification

**Product Name** 

# Magnesium chloride, anhydrous

Cat No. :

AC197060000; AC197060100; AC197060500

CAS No Synonyms 7786-30-3 No information available

Recommended Use Uses advised against

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

#### Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **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

Classification under 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

Component		CAS No	Weight %			
Magnesium chloride		7786-30-3	>95			
	4. F	irst-aid measures				
General Advice	If symptoms pe attendance.	ersist, call a physician. Show this safe	ety data sheet to the doctor in			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attenti 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 symptoms occur.					
Most important symptoms and effects	None reasonal	bly foreseeable.				
Notes to Physician	Treat symptom	atically				

5. Fire-fighting measures

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

#### **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.

NFPA Health 1	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilation formation.	n. Use personal protective equi	pment as required. Avoid dust
Environmental Precautions	Should not be released internation.	o the environment. See Section	12 for additional Ecological

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. Incompatible Materials. Strong oxidizing agents.
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	properties
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Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	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	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cl2 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 Prod	ucts 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 Information

Toxicologically Synergistic Products Pelayed and immediate effects as well as chronic effects from short and long-term exposure Peritation   No information available     rritation   May cause irritation     Sensitization   No information available     Carcinogenicity   The table below indicates whether each agency has listed any ingredient     Component   CAS No   IARC   NTP   ACGIH   OSHA     Magnesium chloride   7786-30-3   Not listed   Not listed   Not listed     Autagenic Effects   No information available   Not listed   Not listed   Not listed     Reproductive Effects   No information available   Stormation available   Stormation available   Stormation available     Stort - single exposure   Non information available.   None known   Stort - single exposure   None known     Stort - repeated exposure   None known   None known   None known   None known     Aspiration hazard   No information available   No information available   Stort - single exposure   None known     Aspiration hazard   No information available   No information available   Stort - single exposure   No information available     Stort - repeated exposure   No information ava	Inhalation							
Intervalues   Intervalues     Velayed and immediate effects as well as chronic effects from short and long-term exposure     ritation   May cause irritation     iensitization   No information available     carcinogenicity   The table below indicates whether each agency has listed any ingredient     Component   CAS No   IARC   NTP   ACGIH   OSHA     Magnesium chloride   7786-30-3   Not listed   Not listed   Not listed   Not listed   Not listed     Mutagenic Effects   No information available   Not information available   Not listed   Not listed   Not listed     evelopmental Effects   No information available   No information available   No information available   Interval   No information available     ftoT - single exposure   None known   None known   None known   No information available     sepiration hazard   No information available   No information available   No information available     sepiration hazard   No information available   No information available   No information available	ot listed							
rritation   May cause irritation     Sensitization   No information available     Carcinogenicity   The table below indicates whether each agency has listed any ingredient     Component   CAS No   IARC   NTP   ACGIH   OSHA     Magnesium chloride   7786-30-3   Not listed   Not listed   Not listed   Not listed   Not listed     Mutagenic Effects   No information available   No information available   Not listed   Not listed   Not listed     Reproductive Effects   No information available.   No information available.   No information available.   No information available.     StoT - single exposure STOT - repeated exposure StoT - repeated exposure Stot - repeated exposure Stot - repeated exposure   No information available.   None known     Aspiration hazard   No information available   No information available   Semptoms / effects, both acute and be information available   No information available     Symptoms / effects, both acute and be information available   No information available   No information available     Endocrine Disruptor Information   No information available   No information available   No information available	No information available							
Sensitization   No information available     Carcinogenicity   The table below indicates whether each agency has listed any ingredient     Component   CAS No   IARC   NTP   ACGIH   OSHA     Magnesium chloride   7786-30-3   Not listed   Not listed   Not listed   Not listed   Not listed     Mutagenic Effects   No information available   No information available   Not listed   Not listed   Not listed     Reproductive Effects   No information available.   No information available.   No information available.     Pevelopmental Effects   No information available.   No information available.   No information available.     STOT - single exposure   None known   None known   No information available     Aspiration hazard   No information available   No information available     Symptoms / effects,both acute and lelayed   No information available   No information available     Endocrine Disruptor Information   No information available   No information available								
Carcinogenicity   The table below indicates whether each agency has listed any ingredient     Component   CAS No   IARC   NTP   ACGIH   OSHA     Magnesium chloride   7786-30-3   Not listed   Not listed   Not listed   Not listed   Not listed     Mutagenic Effects   No information available   Not information available.   Not listed   Not listed   Not listed     Reproductive Effects   No information available.   No information available.   No information available.     Developmental Effects   No information available.   No information available.   STOT - single exposure   None known     STOT - single exposure   None known   None known   None known     Aspiration hazard   No information available   Symptoms / effects,both acute and lelayed   No information available     Endocrine Disruptor Information   No information available   No information available   No								
ComponentCAS NoIARCNTPACGIHOSHAMagnesium chloride7786-30-3Not listedNot listedNot listedNot listedNot listedMutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.TeratogenicityNo information available.STOT - single exposureNone known None knownSTOT - repeated exposureNo information availableSymptoms / effects,both acute and delayedNo information availableEndocrine Disruptor InformationNo information available								
Magnesium chloride   7786-30-3   Not listed   Not li	as a carcinoger							
Mutagenic Effects   No information available     Reproductive Effects   No information available.     Developmental Effects   No information available.     Feratogenicity   No information available.     STOT - single exposure   None known     STOT - repeated exposure   No information available     Aspiration hazard   No information available     Symptoms / effects,both acute and belayed   No information available     Endocrine Disruptor Information   No information available	Mexico							
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STOT - repeated exposure None known   Aspiration hazard No information available   Symptoms / effects,both acute and delayed No information available   Endocrine Disruptor Information No information available	No information available.							
Symptoms / effects,both acute and No information available     delayed     Endocrine Disruptor Information   No information available								
delayed     Endocrine Disruptor Information   No information available	No information available							
	1 No information available							
Other Adverse Effects See actual entry in RTECS for complete information. The toxicological pro-	No information available							
been fully investigated.	operties have no							

# 12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Magnesium chloride	EC50: 2200 mg/L/72h	Pimephales promelas: EC50: 2.12 g/L:96H	EC50 Pseudomonas putida: EC50:26,14 g/L/h Photobacterium phosphoreum: EC50: 36,3 mg/L/30 min Photobacterium phosphoreum: EC50: 77,2	EC50 : 1400 mg/L/24h			
Persistence and Degrada	bility Soluble in	mg/L/24 h vater Persistence is unlikely based on information available.					
Bioaccumulation/ Accumulation No information		tion available.					
Mobility Will likely be		e mobile in the environment	t due to its water solubility.				
	13. E	)isposal consider	ations				
Waste Disposal Methods	hazardous	vaste generators must deter waste. Chemical waste ger zardous waste regulations t	nerators must also consult le	ocal, regional, and			

14. Transport information				
DOT	Not regulated			
DOT TDG 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 chloride	7786-30-3	Х	ACTIVE	-

Legend:

**TSCA** US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Magnesium chloride	7786-30-3	Х	-	232-094-6	Х	Х	Х	Х	Х	KE-22691

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

#### 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	

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Magnesium chloride	7786-30-3	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Notification	Requirements		
Magnesium chloride	7786-30-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	22-Jun-2009 24-Dec-2021 24-Dec-2021 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

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**