



SAFETY DATA SHEET

Preparation Date: 03/10/2015 Revision Date: 09/25/2018 Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: M1035

Product Name: MAGNESIUM CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

Synonyms: No information available

CAS #: 7791-18-6
RTECS # OM2975000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St.

Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if inhaled

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Magnesium Chloride, Hexahydrate	7791-18-6	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin/respiratory tract irritation

May cause diarrhea May cause loss of appetite

May affect the cardiovascular system May cause central nervous system effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: When heated to decomposition it emits toxic fumes.

Product code: M1035 Product name: MAGNESIUM

CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

2/11

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Deliquescent.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Magnesium Chloride,	7791-18-6	None	None	None	None
Hexahydrate					

Canada

Product code: M1035 Product name: MAGNESIUM

CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Magnesium Chloride, Hexahydrate	7791-18-6	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Magnesium Chloride, Hexahydrate	7791-18-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid Flakes. Crystals. White. Off-white. Gray.

Odor:TasteFormula:No information available.No information available.MgCl2•6H2O

Molecular/Formula weight (g/mole): Flammability: Flashpoint (°C/°F):

203.3 No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available 118°C/244.4°F

Boiling point/range(°C/°F):

Product code: M1035 Product name: MAGNESIUM 4 / 11

CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

No information available Bulk density: Density (g/cm3):

No information available
No information available

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

1.56 7 No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available Easily soluble in cold water Easily soluble in hot water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Attacks metals in the presence of moisture. Strong oxidizing agents will release chlorine. At 100°C, it loses 2 H2O. At 110°C, it begins to lose some HCI. Absorbs moisture from the air

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Oxidizing agents

Hazardous decomposition No information available.

products:

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Magnesium Chloride, Hexahydrate

CAS-No. 7791-18-6

LD50/oral/rat = 8100 mg/kg Oral LD50 Rat

Product code: M1035 Product name: MAGNESIUM CHLORIDE, HEXAHYDRATE.

LD50/oral/mouse = 7600 mg/kg LD50 Oral Mouse LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 8100 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 7600 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available **VALUE-Gas** = No information available **VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Low hazard for usual industrial handling. Magnesium salts are absorbed very

slowly from the gastrointestinal tract, and normally can be tolerated orally in fairly

large amounts with no significant accumulation of magnesium, except in

individuals with kidney dysfunction. Symptoms reported from magnesium chloride overdose include diarrhea, loss of appetite, hypotension, cardiac arrhythmias, respiratory depression, neuromuscular impairment, effects on behavior/central nervous system (depression, somnolence, excitement), loss of reflexes, and death

in respiratory arrest.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prologned or repeated ingestion may have an effect on spleen, pancreas

(hypoglyemia), liver, the kidneys, and effects on calcium and potassium levels in the blood based on animal data. Note: If used under conditions generating fumes, there is a risk of developing metal fume fever (a flu-like condition) if the fumes are inhaled. Symptoms of metal fume fever are chills, fever, labored breathing, and

aches and pains which generally develop within a few hours after exposure, and

subsides within 24 to 48hours.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Magnesium Chloride, Hexahydrate	7791-18-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Product code: M1035 Product name: MAGNESIUM

CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

7/11

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Magnesium Chloride, Hexahydrate	7791-18-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Class
Packing group:
No information available

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available
No information available
No Information available
No information available

ADR

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
No information available
No information available
No information available
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available
No information available
No information available

ICAO

UN-No: Not Regulated

Proper Shipping Name: No information available

Product code: M1035 Product name: MAGNESIUM CHLORIDE, HEXAHYDRATE.

CRYSTAL, REAGENT, ACS

8/11

Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Magnesium Chloride,	7791-18-6	Not listed. It is	Not present	Present	Present	Present	Present	Not present
Hexahydrate		exempt from	·		(1)-233			· ·
•		TSCA 8(b)			` '			
		Inventory						
		listing since it						
		is a hydrate.						
		However, the						
		anhydrous						
		form (CAS						
		number						
		7786-30-3) is						
		listed as						
		ACTIVE in the						
		TSCA 8(b)						
1		Inventory.						

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Magnesium Chloride, Hexahydrate	7791-18-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Magnesium Chloride, Hexahydrate	7791-18-6	None	None	None	None	None

Product code: M1035

Product name: MAGNESIUM CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Magnesium Chloride, Hexahydrate	7791-18-6	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification

Not a dangerous product according to HPR classification criteria.

Information:

WHMIS 2015 Hazard Classification Component

Magnesium Chloride, Hexahydrate Not a dangerous product according to HPR classification criteria

7791-18-6 (100)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Magnesium Chloride, Hexahydrate	7791-18-6	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Magnesium Chloride, Hexahydrate	7791-18-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Magnesium Chloride, Hexahydrate	7791-18-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Magnesium Chloride, Hexahydrate	7791-18-6	

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Magnesium Chloride, Hexahydrate	7791-18-6		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

None.

Product code: M1035 Product name: MAGNESIUM CHLORIDE, HEXAHYDRATE,

10/11

16. OTHER INFORMATION

Preparation Date:03/10/2015Revision Date:09/25/2018Prepared by:Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the

completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: M1035

Product name: MAGNESIUM CHLORIDE, HEXAHYDRATE, CRYSTAL, REAGENT, ACS