



Material Safety Data Sheet

Magnesiumchloride51%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Magnesium chloride 51%

Catalog Numbers:

LC16390

Synonyms:**Company Identification:**

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
7791-18-6	Magnesium chloride, hexahydrate	51

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: Colorless

Caution! May cause irritation by all exposure routes.

Target Organs: Noneknown.

Potential Health Effects**Eye:**

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation.



Material Safety Data Sheet

Magnesiumchloride51%

Inhalation:

Maycausecaughingduetoirritationtothemucousmembranes.

Chronic:

Longtermuseofmagnesiumcontainingantacidshascausedrenalfailure.

Section 4 - First Aid Measures

Eyes:

Flusheyeswithplentyofwaterforatleast15minutes,occasionallyliftingtheupperandlowerlidsuntilnoevidence of chemical remains. Get medical aid at once.

Skin:

Getmedicalaidatonce.Flushskinwithplentyofsoapandwaterforatleast15minuteswhileremovingcontaminated clothing and shoes. Remove contaminated clothing to reduce further exposure.

Ingestion:

Induceemesisoradministerlavage.

Inhalation:

Getmedicalaidatonce.Movevictimtofreshairimmediately.Ifbreathingisdifficult,giveoxygen.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Negligiblefireandexplosionhazardwhenexposedtoheatorflame.Movecontainerifpossible,avoidbreathing vapors or dust.

Extinguishing Media:

For small fires, usedrychemical,carbondioxide,watersprayoralcohol-resistantfoam.

Autoignition Temperature:

No information found.

Flash Point:

No information found.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 7791-18-6: Not published.

Explosion Limits:

Lower: Upper:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorbspillswithabsorbent(vermiculite,sand,fuller'searth)andplaceinplasticbagsforlaterdisposal.



Material Safety Data Sheet

Magnesium chloride 51%

Section 7 - Handling and Storage

Handling:

Protect from heat and incompatible materials. Store capped at room temperature.

Storage:

Store in a cool, dry area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Local exhaust may be necessary to control concentrations to acceptable levels.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Magnesium chloride, hexahydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs**Personal Protective Equipment****Eyes:**

Wear appropriate protective eye glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. An eye wash fountain should be available in the immediate work area.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Colorless

Odor: Odorless

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.



Material Safety Data Sheet

Magnesiumchloride51%

Decomposition Temperature: No information found.

Solubility in water: Soluble.

Specific Gravity/Density: No information found.

Molecular Formula: No information found.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

None reported.

Incompatibilities with Other Materials

No information found.

Hazardous Decomposition Products

Toxic fumes of chlorine under thermal decomposition.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 7791-18-6: OM2975000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 7791-18-6:

Oral, mouse: LD50 = 7600 mg/kg

Oral, rat: LD50 = 8100 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7791-18-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Section 12 - Ecological Information

No information found.



Material Safety Data Sheet
Magnesiumchloride51%

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7791-18-6 is not listed on the TSCA Inventory. It is for research and development use only.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7791-18-6 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: November 15, 1998

Revision Date: August 15, 2008



Material Safety Data Sheet
Magnesiumchloride51%

Information in this MSDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc. assumes no liability resulting from the use of this MSDS. The user must determine suitability of this information for his application.