

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** MAGNESIUM CHLORIDE  
**Control Number:** 00198  
**Product Description:** Magnesium Salt

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.  
916 West Lathrop Avenue  
Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC  
**General Information:** (912) 236-1331

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

[ Health ]

[ Environmental ]

[ Physical ]

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### Pictograms

**Signal Word:** Warning

**Hazard statement(s)**

**Precautionary statement(s)**

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Magnesium chloride hexahydrate	7791-18-6	100

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eyes:** Flush eyes with water for at least 15 minutes. Seek medical attention if symptoms persist.

**Skin:** Wash with soap and water. Seek medical attention if symptoms develop and persist.

**Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms develop.

**Ingestion:** Rinse mouth out with water. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Hazardous combustion products:** Hydrogen chloride gas. Magnesium oxide.

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** The product does not burn.

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## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust or aerosol. Ensure adequate ventilation. Evacuate personnel to safe areas. Large Spills: Avoid creating dust. Sweep up and shovel into a convenient waste disposal container.

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Use good hygiene practices.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

**Exposure Limits:** Magnesium Chloride Contains no substances with occupational exposure limit values.

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** Non-flammable

**Decomposition Temperature:** no data available

**Boiling Point:** 2,500 °F

**Freezing/Melting Point:** 244 °F

**Vapor Pressure:** no data available

**Vapor Density (Air-1):** no data available

**Odor/Appearance:** White to grey white powder with no odor

**Flammability Limits:** Not applicable.

**Relative Density:** 1.57

**Volatile %:** Nil

**Evaporation Rate (Water=1):** no data available

**pH:** 7 (1% Sol'n)

**Solubility in Water:** Soluble

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.

Conditions to Avoid: Dust generation, heating to decomposition, exposure to moist air or water.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Hydrogen chloride, chlorine.

**Hazardous Polymerization:** Will not occur.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** May cause slight skin irritation.

**Eyes:** May cause slight mechanical eye irritation.

**Inhalation:** Inhalation of dust may cause mild irritation to the mucous membranes.

**Ingestion:** Since magnesium salts are slowly absorbed, abdominal pain, vomiting and diarrhea may result.

### Acute oral toxicity:

LD50 Oral: rat: 8,100 mg/kg

### Acute inhalation toxicity:

No available data

### Acute dermal toxicity:

No available data

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** No data available.

**Bio-accumulative potential:** No data available.

**Mobility:** Not considered to be mobile.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Not a DOT controlled material

**Hazard Class:**

**UN Number:**

**Packaging Group:**

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## SECTION 15 · REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### **Comprehensive Environmental Response and Liability Act (CERCLA)**

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this has not been established.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### **SARA Section 311/312 (40 CFR 370) Hazard Categories:**

Acute Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA.

**Clean Air Act:** None of the chemicals in this product are listed as Hazardous Substances under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 · OTHER INFORMATION

**MSDS Revision Date:** December 2014

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.