



Chief Medical Supplies Ltd.  
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Calgary, AB., Canada.  
T2E 6J7  
1.866.620.6034

## Safety Data Sheet Magnesium Chloride Hexahydrate

Document No. M-D6-002

### Section I – Product and Company Identification

Product Name: Magnesium Chloride	<b>Company Identification:</b>	Chief Medical Supplies Ltd.
Product Codes: MgCl-104, MgCl-0515, MgCl-1029		411 – 19 Street, S. E.
CAS no.: 7791-18-6		Calgary, AB., Canada.
Chemical Name: Magnesium Chloride Hexahydrate		T2E 6J7
Molecular Weight: 203.3		1.866.620.6034
Chemical Formula: MgCl <sub>2</sub> .6H <sub>2</sub> O	<b>For information, call:</b>	1-403-207-6034
	<b>Emergency Number:</b>	1-403-207-6034

### Section II – Hazards Identification

**Appearance:** Deliquescent crystals solid

**Physical State:** Solid

**Odor:** Not available.

**Hazards of Product:**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant, permeate), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to cardiovascular system, upper respiratory tract.

Repeated or prolonged exposure to the substance can produce target organs damage.

### Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Magnesium chloride hexahydrate	MgCl <sub>2</sub> .6H <sub>2</sub> O	7791-18-6	51

## Section IV – First Aid Measures

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used

**Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention**

**Ingestion:** Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

## Section V – Fire Fighting Measures

<b>Conditions of flammability:</b>	Not flammable
<b>Means of extinction:</b>	Not flammable
<b>Flash point and method of determination:</b>	Not flammable
<b>Upper flammable limit:</b>	Not available
<b>Lower flammable limit:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Hazardous combustion products:</b>	Not available
<b>Explosion data - sensitivity to mechanical impact:</b>	Not available
<b>Explosion data - sensitivity to static discharge:</b>	Not available

## Section VI – Accidental Release Measures

### **Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### **Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section VII – Handling and Storage

### **Precautions:**

Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

### **Storage:**

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

## Section VIII – Exposure Controls/Personal Protection

**Engineering Controls:** 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

### Personal Protection

**Eye ware:** Safety glasses or goggles

**Gloves:** Protective gloves

**Clothing:** Lab coat

## Section IX – Physical and Chemical Properties

**Physical state and appearance:** Solid. (Deliquescent crystals solid.)

**Odor:** Not available.

**Taste:** Not available.

**Molecular Weight:** 203.3 g/mole

**Color:** Not available.

**pH (1% soln/water):** 7 [Neutral.]

**Boiling Point:** Not available.

**Melting Point:** 118°C (244.4°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 1.59 (Water = 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water, methanol.

**Solubility:**

Easily soluble in cold water, hot water, methanol. Insoluble in diethyl ether, n-octanol.

## Section X – Stability and Reactivity

**Stability:** Stable

**Conditions to avoid:** Not available

**Incompatible materials:** Not available

**Conditions of reactivity:** Not available

**Hazardous decomposition products:** Not available

## Section XI – Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 8100 mg/kg [Rat.].

**Chronic Effects on Humans:** The substance is toxic to cardiovascular system, upper respiratory tract.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Material is irritating to mucous membranes and upper respiratory Tract

## Section XII – Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

## Section XIII – Disposal Considerations

**Waste disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations

## Section XIV – Transport Information

**Special shipping information:** Not available

**Transport of Dangerous Goods (TDG):** None

**Department of Transportation (DOT):** None

**International Maritime Dangerous Goods (IMO):** None

**International Civil Aviation Organization (ICAO):** None

## Section XV – Regulatory Information

### **Federal and State Regulations:**

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute Magnesium chloride hexahydrate

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause cancerp. 5 which would require a warning under the statute: Magnesium chloride hexahydrate

**Other Regulation: Not available.**

### **Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

### **DSCL (EEC):**

This product is not classified according to the EU regulations.

### **HMIS (U.S.A.):**

**Health Hazard: 2**

**Fire Hazard: 0**

**Reactivity: 0**

**Personal Protection: E**

**National Fire Protection Association (U.S.A.):**

**Health: 2**

**Flammability: 0**

**Reactivity: 0**

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

## Section XVI – Other Information

*SDS creation date: Mar 11, 2014*

*Last revision date: Jan 08, 2016*

The information above is believed to be accurate and represents the best information currently available to us. However, we make 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 **Chief Medical Supplies** 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 **Chief Medical Supplies** has been advised of the possibility of such damages.

***This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR***