Safety Data Sheet
Magnesium Chloride Hexahydrate

Chief Medical Supplies Ltd.
Document No.:
M-D6-007

Last Revision Date: 2019-05-30

Section I – Product and Company Identification

Product Name: Magnesium Chloride; MgCl-104, MgCl-0515, MgCl-1029

Synonyms: Magnesium Chloride, Hexahydrtate

Chemicals present: See components below

Recommended use: Professional use

Company Identification:

Chief Medical Supplies Ltd.
411 – 19 Street, S. E.
Calgary, AB., Canada.
T2E 6J7
1.866.620.6034

For information, call: 1-403-207-6034
Emergency Number: 1-613-996-6666

Section II – Hazards Identification

Hazard classification:

Not a hazardous substance

Signal word:

Irritation

Symbol:

Hazard statement:

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

Precautionary statement(s):

P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray

P264 – Wash hands thoroughly after handling.

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P302 + 352 – IF ON SKIN: Wash with plenty of water

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards which do not result in classification: No additional information available.

Label elements: Safety data sheet available on request

Section III – Composition/Information on Ingredients

Ingredient Name	Chemical Formula	CAS No.	% by weight
Magnesium Chloride Hexahydrate	$MgCl_2.6H_2O$	7791-18-6	51

Section IV – First Aid Measures

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.

Symptoms and effects:

Inhalation:	May cause respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain, and increased white blood cell count.
Skin contact:	May cause skin irritation.
Eye contact:	May cause mild eye irritation.
Ingestion:	Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Immediate medical attention and special treatment:

Symptoms may not appear immediately. In case of accident or feeling of illness, seek medical advice immediately (show the label or SDS where possible).

Section V – Fire Fighting Measures

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

Not known.

Specific hazards arising from the hazardous product:
Hydrogen chloride gas, Magnesium oxide.

Hazardous combustion products:

Not known.

Special protective equipment and precautions for fire-fighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Section VI – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

General measures: Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Keep product out of drains, sewers, ditches, and waterways.

Methods and materials for containment and cleaning up:

Containment: Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flames.

Spills: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately. Avoid creating airborne particles. Provide ventilation.

Section VII – Handling and Storage

Precautions for safe handling: 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.

Conditions for safe storage (including incompatible materials): 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

Control parameters:

Magnesium chloride Hexahydrate		
ACGIH (TLV)	**NIOSH (REL)**	**OSHA (PEL)**
N/A	N/A	N/A

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.

Individual protection measures (Personal Protection Equipment):

Eyewear: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133.

Gloves: Protective gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section IX – Physical and Chemical Properties

Physical state:	Solid
Appearance:	White powder
Odour:	None
Odour threshold:	No data available
pH:	7
Melting point/Freezing point:	118°C (244.4°F)
Initial boiling point/boiling range:	No data available
Flash point:	212°C (413.6°F)
Evaporation rate:	No data available
Flammability (solid; gas):	No data available
Lower flammable/explosive limit:	No data available
Upper flammable/explosive limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.56
Solubility:	+/- 10% in water
Partition coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available

Section X – Stability and Reactivity

Reactivity:

Nonreactive in normal condition.

Chemical stability:

Stable in normal condition.

Possibility of hazardous reactions:

None in normal condition.

Conditions to avoid: Avoid high temperatures.

Incompatible materials: Metal, strong acid.

Hazardous decomposition products: Hydrogen chloride gas, chlorine, magnesium oxides.

Hazardous polymerization: No data available.

Section XI – Toxicological Information

Route of exposure:

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics:

Skin: Not expected to cause skin irritation.

Eyes: May causes irritation to the eyes.

Inhalation: Formation of mists may by slightly irritating to the nose and throat.

Ingestion: Not toxic by ingestion. May cause gastrointestinal discomfort.

Effects of chronic exposure:

The substance is toxic to cardiovascular system, upper respiratory tract**.**

Acute toxicity:

ACUTE ANIMAL TOXICITY DATA:	
Chemical Substance	Oral LD50 (mg/kg)
Magnesium Chloride Hexahydrate	8100mg/kg [Rat] 7600mg/kg [Mouse]

Carcinogenicity: CAS# 7791-18-6: Not listed by ACGIH, IARC, NTP, or CA Proposition 65.

Reproductive toxicity: Not available.

Teratogenicity: Not available.

Mutagenicity: Not available.

Toxicologically synergistic products: Not available.

Section XII – Ecological Information

Ecotoxicity: No additional information available.

Persistence and degradability: No additional information available.

Bioaccumulative potential: No additional information available.

Mobility in soil: No additional information available.

Other adverse effects: No additional information available.

Section XIII – Disposal Considerations

Waste disposal: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

Section XIV – Transport Information

UN number: No data available

UN proper shipping name: No data available

Transport hazard class(es): No data available

Packing group: No data available

Environmental hazards: No data available

Special shipping information: No data available

Section XV – Regulatory Information

Section XVI – Other Information

SDS creation date: Jun 15, 2011

Last revision date: May 30, 2019

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