

Section 1: Identification

Common Name/Trade Name	MAGNESIUM CHLORIDE HEXAHYDRATE USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Not a hazardous substance or mixture.
Signal Word	None
Hazard Statement(s)	N/A
Pictogram(s)	N/A
Precautionary Statement(s)	N/A
Hazards Not Otherwise Classified	No data available
Ingredient(s) with Unknown Toxicity	No data available

Section 3: Composition/Information on Ingredients

Chemical Name	N/A
Common Name	Magnesium chloride hexahydrate
CAS Number	7791-18-6
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	In all cases provide the physical and mental rest and avoid of getting chilled. In case of health problems or doubts inform physician and provide him with the information contained in this safety data sheet. Never pass a medication to a unconscious person. Maintain personal safeness during rescue operation.
If Inhaled	Stop exposition, move the afflicted person to the fresh air, keep him warm and at rest. If symptoms persist seek medical attention. In case of unconsciousness start with resuscitation (artificial respiration, cardiac massage) and call for medical attention.
In Case of Skin Contact	Remove contaminated clothes and footwear. Wash of any skin contamination with cool water and soap. Launder clothes before re-use. In case of persisting irritation contact physician .
In Case of Eye Contact	Remove contact lenses if present. Rinse with a small amount of water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention. Do not use neutralization solution!
If Swallowed	Wash out mouth with water and give plenty of water to drink (at least 300 ml). Do not induce vomiting. Seek medical attention. When vomiting, maintain supervision until the help arrives. Obtain medical advice if symptoms persist.
Most Important Symptoms and Effects	Skin , airways or eye irritation. After consumption of a bigger amount vomiting and diarrhoea, alimentary tract irritation may appear. Symptoms: red skin, eyes, blurred vision. Immediate medical help instruction and special treatment: Calcium Tartrate treatment partly eliminates the effects of acute toxicity of Magnesium. Ventriculous support along with Calcium Chloride infusion and forced urination by means of mannitol can also be successful.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable extinguishing media: Non-combustible substance . All extinguishing media are allowed, select the appropriate extinguishing media depending on the surrounding fire and environment. Not suitable extinguishing media : Strong water jet
Special Hazards Arising From the Substance/Mixture	Non-combustible substance. At temperatures over 135 Â°C decomposition occurs with the release of gaseous hydrogen chloride. At temperatures over 300 Â°C decomposition occurs with the release of chlorine.
Special PPE and/or Precautions for Firefighters	Use individual breathing apparatus, anti-gas safety clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal safety working clothes â?? section 8. Prevent from skin and eye contact. Do not inhale dust. Well ventilate areas. Prevent from dust making. Other safety precautions â?? section 7.
Methods and Materials Used for Containment	Prevent from escape to watercourses and soil and from their contamination. If there is no way to avoid it, immediately inform appropriate authority (police and firemen).
Cleanup Procedures	Clean up contamination/spillages as soon as they occur. Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal (according section 13). Avoid generation of dust. Wash the spillage area with large quantities of water. When packaging is damaged, replace the amount into a new packaging with proper marking.

Section 7: Handling and Storage

Precautions for Safe Handling	Use the personal safety tools (section 8). Ensure fresh water for the first aid. Maintain the cleanness and tidiness on the working area. Provide basic employee training to prevent / minimize exposures and to report any healthy problems that may develop. Do not eat, drink or smoke during work. Avoid contact with skin and eyes. Wash hands duly with soap and water, take a shower. Use a body lotion.
Conditions for Safe Storage	Store at a dry place, not above normal room temperature. Avoid excessive ventilation as the product can absorb moisture from the air. Magnesium chloride liquors can cause pitting of and corrosion of some grades of stainless steel and under high temperature and stress conditions can promote stress corrosion cracking. Magnesium chloride is highly hygroscopic.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Not specified.
Appropriate Engineering Controls	Operate in a well-ventilated area, avoid inhalation of dusts or mists (for liquids). Atmospheric levels should be controlled in compliance with the exposure scenarios and occupational exposure limits. Ensure shower and area for eyes rinsing. The mentioned personal safety instruments should be in compliance with EN standards. Do not eat, drink or smoke during work. Immediately remove contaminated clothing. Wash hands duly with soap and water, take a shower. Use a body lotion.
PPE - Eye/Face Protection	Wear suitable eye/face protection. Most materials for protective goggles and face visors will probably be suitable eg. polycarbonate.
PPE - Skin Protection	Normal working clothes is suitable.
PPE - Body Protection	Normal working clothes is suitable.
PPE - Respiratory Protection	In the case of high dust levels wear suitable respiratory protective equipment, ie. dust mask or respirator conforming to EN standards. Recommended filter = particle filter,P2.

Section 9: Physical and Chemical Properties

Appearance	Form: Solid - crystals Colour: Colorless up to white
Upper/Lower Flammability or Explosive Limits	Not available, non-explosive matter
Odor	Odorless
Vapor Pressure	irrelevant
Odor Threshold	No data available
Vapor Density	irrelevant
pH	(at 20 °C): 5,5 – 7,0 (5 % solution at 20 °C)
Relative Density	1,57 g/cm3
Melting Point/Freezing Point	118 °C
Solubility	Water solubility (at 20 °C) : 164 g / 100 ml Solubility in solvents: Not available
Initial Boiling Point and Boiling Range	160 °C
Flash Point	Not applicable, incombustible matter
Evaporation Rate	Not applicable
Flammability (Solid, Gas)	The substance is non-flammable
Partition Coefficient	Not applicable
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	135 °C
Viscosity	Not applicable

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage and handling conditions. Strong oxidizing agents generates chlorine.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	Strong oxidizing agents, releasing chlorine.
Incompatible Materials	Strong oxidizing agents, releasing chlorine.
Hazardous Decomposition Products	None at normal use. Irritant or toxic gases can be generated at higher temperature (hydrochloric acid over 135 Å°C, chlorine over 300 Å°C). Generates dangerous gases or fumes in contact with metals, zinc (generation of hydrogen).

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 oral, rat (mg.kg-1): 8100 (mouse 4700)
Acute Toxicity - Inhalation	LC50 inhalation, rat, for aerosols or particles (mg.l-1): Not specified
Acute Toxicity - Dermal	LD50 dermal, rabbit (mg.kg-1): > 2000
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	No irritation
Serious Eye Damage/Irritation	Can cause eye irritation
Respiratory or Skin Sensitization	Substance does not have sensitive effects on skin and respiratory system
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	Not carcinogenic substance
Carcinogenicity ACGIH	Not carcinogenic substance
Carcinogenicity NTP	Not carcinogenic substance
Carcinogenicity OSHA	Not carcinogenic substance
Reproductive Toxicity	Not toxic substance for reproduction
Specific Target Organ Toxicity - Single Exposure	Substance does not have toxic effects within single exposition
Specific Target Organ Toxicity - Repeated Exposure	Substance does not have toxic effects within repeated exposition
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	LC50 96 hr., fish (mg.l-1): 2 119 - EC50 48 hr., daphnia (mg.l-1): 548 - EC50 72 hr. algae (mg.l-1): 100
Persistence and Degradability	Not specified (not relevant for inorganic substances)
Bio-accumulative Potential	Not specified
Mobility in Soil	Not specified
Other Adverse Effects	Not specified

Section 13: Disposal Considerations

Waste Treatment Methods Product	If recycling or reuse is not practical then the product must be disposed of by authorized personnel in accordance with local, state or national regulations. Never dispose by flushing into the drainage! Waste former is responsible for its sorting and disposal. Special safety precaution for recommended waste treatment: Preferably dispose in independent container. Do not dispose of with acids.
Waste Treatment Methods Packaging	If recycling or reuse is not practical then packaging must be disposed of by authorized personnel in accordance with local, state or national regulations. Clean packaging with water and dispose of washings in accordance to local regulations. Packaging can be passed to a packaging return system after the cleaning.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	N/A
Transport Hazard Class(es)	N/A
Packaging Group	N/A
Environmental Hazards	No data available

Section 15: Regulatory Information

Chemical Safety Assessment: Chemical safety Report (CSR) has been carried out for the substance. National legislation: Regulation (EC) No. 1907 / 2006 / ES, REACH Regulation (EC) No. 1272 / 2008 / ES, CLP National laws or provisions may be in force !

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
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