

## Section 1: Identification

<b>Common Name/Trade Name</b>	MAGNESIUM SULFATE HEPTAHYDRATE	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours)
<b>Product Synonym(s)</b>	Epsom salt, Magnesium Sulfate	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

## Section 2: Hazards Identification

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

## Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	N/A
<b>Common Name</b>	Magnesium sulfate heptahydrate
<b>CAS Number</b>	10034-99-8
<b>Impurities and/or Stabilizing Additives</b>	No data available

## Section 4: First Aid Measures

<b>General Advice</b>	Not available
<b>If Inhaled</b>	Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
<b>In Case of Skin Contact</b>	If irritation (redness, rash, blistering) develops, get medical attention.
<b>In Case of Eye Contact</b>	If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms persist, obtain medical attention.
<b>If Swallowed</b>	Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.
<b>Most Important Symptoms and Effects</b>	May cause mild eye irritation

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Compatible with all standard fire fighting techniques.
<b>Special Hazards Arising From the Substance/Mixture</b>	Inorganic powder or granules. Non-combustible.
<b>Special PPE and/or Precautions for Firefighters</b>	Goggles. A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Goggles. An approved dust mask should be worn if dust is generated during handling.
<b>Methods and Materials Used for Containment</b>	Sinks and mixes with water.
<b>Cleanup Procedures</b>	Caution - spillages may be slippery. Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal. Observe Local Regulations.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	Avoid generation of dust. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.
<b>Conditions for Safe Storage</b>	Keep container tightly closed and dry. Protect from extremes of temperature and humidity. Store bags flat until use.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	UK EH40: Dust Total inhalable: WEL 10mg/m <sup>3</sup> 8h TWA. Respirable: WEL 4mg/m <sup>3</sup> 8h TWA. ACGIH: Particulates not otherwise classified Inhalable TLV 10mg/m <sup>3</sup> 8h TWA. Respirable: TLV 3mg/m <sup>3</sup> 8h TWA. OSHA: Inert or Nuisance Dust Total dust : PEL 15mg/m <sup>3</sup> 8h TWA. Respirable fraction : PEL 5mg/m <sup>3</sup> 8h TWA.
<b>Appropriate Engineering Controls</b>	Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
<b>PPE - Eye/Face Protection</b>	Safety spectacles. Goggles.
<b>PPE - Skin Protection</b>	Wear suitable protective clothing and gloves. If abrasion or irritation occurs
<b>PPE - Body Protection</b>	Wear suitable protective clothing and gloves. If abrasion or irritation occurs
<b>PPE - Respiratory Protection</b>	Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	Powder. White.
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Odor</b>	Odourless.
<b>Vapor Pressure</b>	< 0.133 hPa (< 0.100 mmHg) at 20 Å°C (68 Å°F)
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	No data available
<b>pH</b>	6 - 7 at 5% w/w in water.
<b>Relative Density</b>	1.67 g/cm <sup>3</sup>
<b>Melting Point/Freezing Point</b>	> 1000
<b>Solubility</b>	Solubility (Water) 71 g/100 ml at 20Å°C, 91 g/100 ml at 40Å°C
<b>Initial Boiling Point and Boiling Range</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (Solid, Gas)</b>	Not applicable
<b>Partition Coefficient</b>	Not applicable
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable

## Section 10: Stability and Reactivity

<b>Reactivity</b>	Stable under normal temperature conditions and recommended use.
<b>Chemical Stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	None known.
<b>Conditions to Avoid</b>	Not available.
<b>Incompatible Materials</b>	Metal hydrides and other water reactive materials.
<b>Hazardous Decomposition Products</b>	At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	RTECS reports Oral TDLo= 428 mg/kg in man 351 mg/kg in women
<b>Acute Toxicity - Inhalation</b>	Dust may cause irritation
<b>Acute Toxicity - Dermal</b>	Dust may have a drying effect on the skin.
<b>Acute Toxicity - Eye</b>	Dust may cause discomfort and mild irritation.
<b>Skin Corrosion/Irritation</b>	Dust may cause irritation
<b>Serious Eye Damage/Irritation</b>	No data available
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity IARC</b>	Components are not listed by IARC, NTP or OSHA as carcinogens.
<b>Carcinogenicity ACGIH</b>	Components are not listed by IARC, NTP or OSHA as carcinogens.
<b>Carcinogenicity NTP</b>	Components are not listed by IARC, NTP or OSHA as carcinogens.
<b>Carcinogenicity OSHA</b>	Components are not listed by IARC, NTP or OSHA as carcinogens.
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity - Single Exposure</b>	Not classified
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Not classified
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	Not available.
<b>Persistence and Degradability</b>	Not available.
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	Sinks in water
<b>Other Adverse Effects</b>	Not available

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Disposal should be in accordance with local, state or national legislation. Not a hazardous waste under RCRA Sec.3001. This material is not classified as hazardous waste under EC Directive 2008/98/EC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
<b>Waste Treatment Methods Packaging</b>	No data available
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	N/A

## Section 15: Regulatory Information

TSCA Inventory Status: Reported/Included. AICS Inventory Status: Reported/Included. DSL/NDL Inventory Status: Reported/Included. Magnesium sulfate is an FDA GRAS substance pursuant to 21CFR 184.1443 HMIS: Health Hazard: 0 Fire Hazard: 0 Reactivity: 0

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Lisa Russell
<b>Revision Date</b>	01/08/2019 15:38

### Disclaimer

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