

# Material Safety Data Sheet

## Magnesium Chloride Injection

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Magnesium Chloride Injection

**Synonyms:** Magnesium Chloride Hexahydrate Injection, Magnesium Dichloride Hexahydrate, Magnesium Chloride Injection (BP),

**Manufacturer:** McGuff Pharmaceuticals, Inc.  
2921 West McArthur Blvd, Suite 141  
Santa Ana, CA 92704

**Revision Date:** September 17, 2003

**Information Telephone Number:** (714) 918-7277

**Fax number:** (714) 438-0520

**Emergency Telephone Number:** (714) 918-7277

**CHEMTREC:** 1-800-424-9300

**CANUTEC:** 613-996-6666

### SECTION 2. COMPOSITION, INFORMATION ON INGREDIENTS

#### Chemical Ingredients:

<u>Component</u>	<u>CAS #</u>
Magnesium Chloride Hexahydrate, 200 mg/mL	7791-18-6
Sodium Chloride, 9 mg/mL	7647-14-5
Benzyl Alcohol, 1% (v/v)	100-51-6
Water	N/A

### SECTION 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Remove any contamination from the skin, eyes, or clothing.

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### POTENTIAL HEALTH EFFECTS

The health hazards of Magnesium Chloride Injection are predominantly associated either with the active pharmaceuticals ingredient (Magnesium Chloride) or the preservative (Benzyl alcohol). Refer to the MSDS for each of these ingredients for further information.

**Inhalation:**

Not expected to be a health hazard via inhalation.

**Ingestion:**

Not expected to produce any acute adverse health effects. Large doses may cause gastrointestinal upset.

**Skin Contact:**

Not expected to produce any acute adverse health effects.

**Eye Contact:**

No adverse effect expected, but may cause mechanical irritation or mild irritation due to high osmolarity of solution and/or presence of preservative (benzyl alcohol).

**Chronic Exposure:**

Not expected to be a chronic health hazard.

**Aggravation of Pre-existing Conditions:**

No information found.

<b>SECTION 4. FIRST AID MEASURES</b>
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**Inhalation:**

Not expected to require first aid measures.

**Ingestion:**

If large amounts are swallowed, give water to drink and seek medical attention.

**Skin Exposure:**

Wash exposed areas with soap and water. Get medical advice if irritation develops.

**Eye Exposure:**

In case of contact, immediately flush eyes with running water for at least 15 minutes. Get medical advice if irritation develops.

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### SECTION 5. FIRE FIGHTING MEASURES

**Fire:** Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

**Fire Extinguishing Media:** Considered non-combustible. Dry chemical, Foam, CO<sub>2</sub>, Water, Spray or Fog. Use any means suitable for extinguishing surrounding fire.

**Special Instructions:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Collect all spills and dispose of as non-hazardous waste. All cleanup operations should be performed according to the Standard Operating Procedures (SOPs) established for your facility and applicable local, state or federal regulations.

### SECTION 7. HANDLING AND STORAGE

Store at room temperature. Storage and disposal of product should be controlled in a manner which is in compliance with the appropriate regulations of the federal or state government agencies.

Do not use if a precipitate is present.

### SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Airborne Exposure Limits:**

None established.

**Engineering Controls:**

Not expected to require any special ventilation.

**Respiratory Protection:**

Not expected to require personal respirator usage.

**Skin Protection:**

Wear protective gloves and clean, body-covering, clothing.

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**Eye/Face Protection:**  
Safety glasses.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, colorless liquid.

**Odor:** Odorless. May have a slight salt odor.

**Solubility:** Soluble in water.

### SECTION 10. STABILITY AND REACTIVITY

**Stability:**

Magnesium Chloride Injection is reasonably stable at room temperature when stored according to its labeled instructions.

The Benzyl Alcohol component of the composition is incompatible with strong oxidizing agents, non-metallic halides, polymerization initiators and slowly oxidizes in air.

**Hazardous Decomposition Products:**

When heated to decomposition, Magnesium Chloride may emit hydrogen chloride and/or chlorine.

When heated to decomposition, Benzyl Alcohol may emit carbon monoxide, carbon dioxide, acrid smoke and fumes.

**Hazardous Polymerization:**

Should not occur.

**Incompatibilities:**

No information found.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Magnesium Chloride Injection is formulated to contain various base ingredients as listed in section 2. Specific information regarding toxicology of Magnesium Chloride Injection is not readily available. Refer to the finished product Package Insert for dosing and administration instructions, precautions and warnings.

Toxicological information on specific components may be obtained by submitting a written request to McGuff Pharmaceuticals, Inc. at the address listed in Section 1 - Attn: Customer Service Department.

#### **Magnesium Chloride (dry powder):**

##### **LD50/LC50:**

CAS# 7791-18-6:

Oral, mouse: LD50 = 7600 mg/kg;

Oral, rat: LD50 = 8100 mg/kg;

##### **Carcinogenicity:**

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No data available.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Neurotoxicity:** No data available.

**Mutagenicity:** No data available.

**Other Studies:** No data available.

#### **Benzyl Alcohol (as 99%):**

##### **LD50/LC50:**

Draize test, rabbit, skin: 100 mg/24H Moderate;

Oral, mouse: LD50 = 1360 mg/kg;

Oral, rabbit: LD50 = 1040 mg/kg;

Oral, rat: LD50 = 1230 mg/kg;

Skin, rabbit: LD50 = 2 gm/kg;

##### **Carcinogenicity:**

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Neurotoxicity:** No information available.

##### **Mutagenicity:**

DNA repair (Bacteria - Bacillus subtilis) = 21 mg/disc Mutation in microorganisms (Mouse Lymphocyte) = 250 mg/L

##### **Other Studies:**

Standard Draize test (skin, Human) = 16 mg/48H; Mild Standard Draize test (skin, rabbit) = 100 mg/24H; Moderate

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## Magnesium Chloride Injection

### SECTION 12. ECOLOGICAL INFORMATION

Magnesium Chloride Injection is intended for use by hospital or pharmacy professionals, it is expected to be treated by standard wastewater treatment facilities with no adverse environmental impacts.

### SECTION 13. DISPOSAL CONSIDERATIONS

Magnesium Chloride Injection is considered non-hazardous. Consult local, state and federal regulations for proper disposal.

### SECTION 14. TRANSPORT INFORMATION

**DOT (Department of Transportation):** Not Regulated

### SECTION 15. REGULATORY INFORMATION

**CERCLA Reportable Quantities:** None.

#### **SARA Title III**

302 Extremely Hazardous Substances: None

311/312 Hazard Categories: None

313 Toxic substances subject to annual release reporting requirements: None.

#### **RCRA Hazardous Waste Status**

Non-hazardous (See Section 13 for additional details.)

#### **California Proposition 65 Warning**

This product does not contain substances known to the State of California to cause cancer.

**Australian Hazchem Code:** None allocated.

**Australian Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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SECTION 16. OTHER INFORMATION
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**MSDS Status:** Revised in accordance with ANSI Guideline Z400.1-1998

**NFPA Ratings:** Health: 0 Flammability: 0 Reactivity: 0

**Product Use:** Refer to package insert supplied with product for detail use information. Generally, magnesium Chloride Injection is a solution of Magnesium Chloride Hexahydrate in Water for Injection intended for use in hospital or pharmacy admixture operations.

**Revision Information:** No changes.

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