



# Material Safety Data Sheet

Material Name: Magnesium Chloride Injection 200mg/mL

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Bioniche Pharma  
272 E Deerpath Road  
Suite 304  
Lake Forest, IL 60045

Phone: 888-258-4199

Emergency # 888-875-1671

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

May cause eye, skin, gastrointestinal, and/or respiratory tract irritation.

### Potential Health Effects: Eyes

May cause irritation.

### Potential Health Effects: Skin

May cause irritation.

### Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use. May cause gastrointestinal irritation if swallowed.

### Potential Health Effects: Inhalation

Not considered a likely route of exposure under normal product use. May cause respiratory tract irritation.

### HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component
7732-18-5	Water
7791-18-6	Magnesium chloride, hexahydrate
100-51-6	Benzyl alcohol
7647-14-5	Sodium chloride

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes.

### First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

If ingestion of a large amount does occur, seek medical attention.

### First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

None

### Hazardous Combustion Products

Not determined

### Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

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**Fire Fighting Equipment/Instructions**

Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**\*\*\* Section 6 - Accidental Release Measures \*\*\***

**Containment Procedures**

Contain the discharged material.

**Clean-Up Procedures**

Wear appropriate protective equipment and clothing during clean-up. Use sand or perlite or vermiculite as an absorbent for large spills of this material.

**Evacuation Procedures**

Isolate area. Keep unnecessary personnel away.

**Special Procedures**

Avoid contact with skin and eyes.

**\*\*\* Section 7 - Handling and Storage \*\*\***

**Handling Procedures**

Wash hands after handling and before eating.

**Storage Procedures**

Keep this material in a cool, well-ventilated place.

**\*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\***

**A: Component Exposure Limits**

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

**Engineering Controls**

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

**PERSONAL PROTECTIVE EQUIPMENT**

**Personal Protective Equipment: Eyes/Face**

Wear safety glasses; chemical goggles (if splashing is possible).

**Personal Protective Equipment: Skin**

Use impervious gloves.

**Personal Protective Equipment: Respiratory**

Not normally needed.

**Personal Protective Equipment: General**

Eye wash fountain is recommended.

**\*\*\* Section 9 - Physical & Chemical Properties \*\*\***

<b>Appearance:</b> Clear <b>Physical State:</b> Liquid <b>Vapor Pressure:</b> ND <b>Boiling Point:</b> ND <b>Solubility (H2O):</b> Slight <b>Evaporation Rate:</b> ND <b>Octanol/H2O Coeff.:</b> ND <b>Flash Point Method:</b> ND  <b>Lower Flammability Limit (LFL):</b> ND <b>Auto Ignition:</b> ND	<b>Odor:</b> None <b>pH:</b> ND <b>Vapor Density:</b> ND <b>Melting Point:</b> ND <b>Specific Gravity:</b> ND <b>VOC:</b> ND <b>Flash Point:</b> ND <b>Upper Flammability Limit (UFL):</b> ND <b>Burning Rate:</b> ND
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**\*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\***

**Chemical Stability**

This is a stable material.

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## Chemical Stability: Conditions to Avoid

None

## Incompatibility

Not Determined

## Hazardous Decomposition

Not Determined

## Possibility of Hazardous Reactions

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

## Acute Dose Effects

### A: General Product Information

No information available for the product.

### B: Component Analysis - LD50/LC50

#### Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

#### Magnesium chloride, hexahydrate (7791-18-6)

Oral LD50 Rat: 8100 mg/kg

#### Benzyl alcohol (100-51-6)

Inhalation LC50 Rat: 8.8 mg/L/4H; Oral LD50 Rat: 1230 mg/kg; Dermal LD50 Rabbit: 2000 mg/kg

#### Sodium chloride (7647-14-5)

Inhalation LC50 Rat: >42 g/m<sup>3</sup>/1H; Oral LD50 Rat: 3 g/kg; Dermal LD50 Rabbit: >10 g/kg

## Carcinogenicity

### A: General Product Information

No information available for the product.

### B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

### \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

### A: General Product Information

No information available for the product.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

#### Benzyl alcohol (100-51-6)

Test & Species	Conditions
96 Hr LC50 Pimephales promelas	460 mg/L [static]
96 Hr LC50 Lepomis macrochirus	10 mg/L [static]
3 Hr EC50 Anabaena variabilis	35 mg/L
5 min EC50 Photobacterium phosphoreum	63.7 mg/L
15 min EC50 Photobacterium phosphoreum	63.7 mg/L
30 min EC50 Photobacterium phosphoreum	71.4 mg/L
5 min EC50 Photobacterium phosphoreum	50 mg/L
48 Hr EC50 water flea	23 mg/L

#### Sodium chloride (7647-14-5)

Test & Species	Conditions
96 Hr LC50 Lepomis macrochirus	9675 mg/L [flow-through]

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96 Hr LC50 Lepomis macrochirus	12946 mg/L [static]
96 Hr LC50 Pimephales promelas	7650 mg/L [static]
48 Hr EC50 Daphnia magna	1000 mg/L

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

#### Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.  
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

**Shipping Name:** Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### State Regulations

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Benzyl alcohol	100-51-6	No	Yes	Yes	No	Yes	No

#### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Benzyl alcohol	100-51-6	1 %

### Additional Regulatory Information

#### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Magnesium chloride, hexahydrate	7791-18-6	No	No	No
Benzyl alcohol	100-51-6	Yes	DSL	EINECS
Sodium chloride	7647-14-5	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

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## Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.