

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 473.00

Revision Date: July 16, 2010

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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## Magnesium Chloride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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Magnesium chloride

CAS#: 7791-18-6

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### SECTION 3 — HAZARDS IDENTIFICATION

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Colorless, white crystals or flakes. Odorless.

Slightly toxic by ingestion. Irritant. Avoid ingestion, inhalation, and skin absorption.

#### FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-1

Exposure-1

Storage-1

0 is low hazard, 3 is high hazard

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### SECTION 4 — FIRST AID MEASURES

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Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye: Immediately flush with fresh water for at least 15 minutes.

External: Wash continuously with fresh water for at least 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Nonflammable solid.

#### NFPA CODE

None  
established

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### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from the area. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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### SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates, and phosphates. Store in a cool, dry place. Deliquescent; store in Flinn Chem-Saf Bag.

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### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Colorless, white crystals or flakes. Odorless.

Solubility: Soluble in water and alcohol.

Formula:  $MgCl_2 \cdot 6H_2O$

Formula Weight: 203.33

Melting Point: 116-118 °C (if heated rapidly) - with decomposition.

Specific Gravity: 1.56

**SECTION 10 — STABILITY AND REACTIVITY**

Avoid contact with strong oxidizers.

Shelf life: Fair to poor; deliquescent.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Irritant, stomach pains, vomiting, diarrhea.

Chronic effects: N.A.

Target organs: Central nervous system, kidneys.

ORL-RAT  $LD_{50}$ : 2800 mg/kg

IHL-RAT  $LC_{50}$ : N.A.

SKN-RBT  $LD_{50}$ : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

**SECTION 12 — ECOLOGICAL INFORMATION**

Data not yet available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Please consult with state and local regulations.

Flinn Suggested Disposal Method #26a is one option.

**SECTION 14 — TRANSPORT INFORMATION**

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

**SECTION 15 — REGULATORY INFORMATION**

EINECS-listed (232-094-6).

**SECTION 16 — OTHER INFORMATION**

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*  
for additional information about laboratory chemicals.**