

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 479.00

Revision Date: July 13, 2011

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Magnesium Perchlorate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

### SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Magnesium perchlorate

CAS#: 10034-81-8

### SECTION 3 — HAZARDS IDENTIFICATION

White crystals. Odorless.

Moderately toxic by ingestion or inhalation. May cause irritation of skin and mucous membranes.

Avoid ingestion, inhalation, and skin absorption.

#### FLINN AT-A-GLANCE

Health-2

Flammability-2

Reactivity-1

Exposure-1

Storage-0

0 is low hazard, 3 is high hazard

### SECTION 4 — FIRST AID MEASURES

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

Internal: Rinse out mouth. Give large quantities of water for dilution. Induce vomiting. Call a physician or poison control at once.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

Strong oxidizer. A severe fire and explosion hazard when exposed to heat, flame, or combustible materials.

When heated to decomposition, emits toxic fumes of chlorides.

**Fire Fighting Instructions:** Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #6. Store with bromates and chlorates.

Store in a cool, dry place. Material may be shock sensitive. Protect from light and heat.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White, odorless crystals.

Solubility: Soluble in water and alcohol. Hygroscopic.

Formula:  $Mg(ClO_4)_2$

Formula weight: 223.23

Melting point: 251 °C (decomposes)

Specific gravity: 2.21

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong reducers, finely powdered metals, and strong acids. Reacts violently with water.

Shelf life: Poor, protect from heat and light.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Irritant.

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD<sub>50</sub>: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #12a is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Magnesium Perchlorate

Hazard class: 5.1, Oxidizer

UN number: UN1475

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (233-108-3), RCRA code D001, D003.

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**SECTION 16 — OTHER INFORMATION**

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