

# Safety Data Sheet

## Section 1 - Chemical Identification

Product Name: Magnesium Perchlorate - Anhydrous  
Catalog Numbers: CI-1250  
SDS number: 29  
Product purpose: Laboratory use.

**Company** Crossings, Inc.  
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Lincoln, NE 68522  
402-435-7942

**Website:** [www.crossingsinc.com](http://www.crossingsinc.com)  
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Chemtel: 800-255-3924

## Section 2 - Hazards Identification

**Hazard Class** Oxidizing solids - Category 2  
Serious eye irritation/damage - Category 2  
Specific target organ toxicity, single exposure - Category 3, respiratory tract irritation

**Hazard Symbol:**



**Signal word:**

**Danger**

**Hazard statement:** May intensify fire. May cause respiratory irritation. Cause serious eye irritation.

**Precaution Measures:** Keep away from heat. Keep/Store away from clothing/combustible materials. Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

**Response**

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.

**Storage**

Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

## Section 3 - Composition, Information on Ingredients

Chemical Name	Common Name	CAS#	%/W
Magnesium Perchlorate		10034-81-8	90 -100

## Section 4 - First Aid Measures

**Call a doctor if you feel unwell.**

**EYES:** Do not rub. Flush with large amounts of water for 15 minutes. **If eye irritation persists:** Get medical aid.

**SKIN:** Wash off with plenty of water. Get medical aid if irritation develops or persists.

**INHALATION:** Remove person to fresh air immediately. If necessary aid breathing and seek medical aid.

**INGESTION:** Call a physician or poison control immediately. Rinse mouth with plenty of water.

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

**Extinguishing Media:** Water fog, water.

**Special hazards arising from chemical:** Hydrogen Chloride gas and Magnesium Oxide.

**Firefighting Instructions:** Wear self-contained breathing apparatus and standard protective clothing. Use water to cool unopened containers, exposed to heat.

### **Section 6 - Accidental Release Measures**

**Personal Precautions:** Use suitable personal protection equipment when cleaning up any spills. Avoid breathing dust or gasses produced by fire. Safely remove all personnel.

**Recovery method:** Sweep up, collect in suitable container. Wash the area with wet cloth after area has been swept up.

### **Section 7: Handling and Storage**

**Handling:** Keep from, heat. Keep container sealed when not in use. Minimize dust creation. Don't breathe dust. Wear appropriate clothing. Avoid dust build up on surfaces. Wear a respirator where there is not ventilation. Avoid mixing with combustibles. Wash hand thoroughly after handling.

**Storage:** This product should be stored in a cool, dry and well ventilated environment away from any heat source, flammable or combustible material, keep out of direct sunlight. Keep container tightly closed when not in use. Store away from incompatible materials. Storage class TRGS 510: strong oxidizing hazard material.

### **Section 8 - Exposure Controls, Personal Protection**

**Exposure limits value:** No exposure limits noted for ingredients.

**Engineering Controls:** This material should be handled in accordance to good lab practices – safety and hygiene. Wash hands thoroughly before eating, drinking and end of day.

**Eye and Face Protection:** Wear appropriate protective eyeglasses with side shields.

**Skin and Clothing:** Wear appropriate chemical resistant gloves. Routinely inspect gloves before use for wear.

**Respirators:** A respiratory must be worn if exposed to dust. Use a NIOSH/MSHS approved respirator if there is a risk or exposure to dust/fumes at levels exceeding exposure limits.

**General hygiene:** Wash hands after use and before eating or drinking. Do not breathe dust. Work clothing should be wash regularly to remove contaminants.

### **SECTION 9 - Physical and Chemical Properties**

**Physical state:** Granular / Powder

**Appearance:** White

**Odor:** None

**PH:** 5 – 8 (5% solution)

**Vapor pressure:** N/A

**Evaporation rate:** N/A.

**Viscosity:** not available.

**Boiling point:** N/A

**Melting Point:** 250°C (482°F)

**Freezing/melting point:** N/A

**Relative Density:** 2.20 g/cm<sup>3</sup> estimated

**Solubility(water)** very soluble with evolution of heat.

**Specific gravity:** N/A

### **Section 10 - Stability and Reactivity**

**Reactivity:** Increases the burning rate of combustible materials.

**Stability:** Stable under normal conditions. Do Not create dust. Avoid heat.

**Avoid:** Do not create dust - fine particles can be harmful and reactive. Avoid heat and incompatible materials.

**Incompatible materials:** Strong acids. Combustible material. Reducing agents. Violently reacts with water. Organic materials exothermic reaction on contact with water will release heat and steam.

**Hazardous Decomposition:** Hydrogen Chloride

## Section 11 - Toxicological Information

### Routes of exposure

<b>Inhalation</b>	Breathing of dusts may cause respiratory irritation.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Not available.
<b>Symptoms from Exposure</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Upper respiratory tract irritation.

### Toxicological effects

**Acute toxicity:** May cause respiratory irritation.  
LD50, Mouse, 1500 mg/kg

<b>Skin corrosion/irritation:</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/ irritation:</b>	Causes serious eye irritation.
<b>Respiratory sensitization:</b>	Not available.
<b>Carcinogenicity:</b>	Not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA. This product has no known adverse effects on human health.

### Chronic toxicity:

## Section 12 - Ecological Information

**Eco-toxicity Data:** This material is not expected to be harmful to aquatic life.

**Mobility in soil:** No data available.

**Other:** No other adverse environmental effects are expected from this component.

## Section 13 - Disposal Considerations

**Waste Disposal:** Dispose of in accordance with all federal, state and local regulation.

**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residue:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging:** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. Rinse packaging thoroughly before offering to recycling facilities.

## Section 14 - Transport Information

### DOT

UN number: UN1475  
Class: 5.1



Packing Group: II  
Proper shipping name: Magnesium Perchlorate

**Special provision:** Read safety instruction, SDS and emergency procedures before handling.

### IATA

UN number: UN1475  
Class: 5.1  
ERG code: 5L

Packing Group: II  
Proper shipping name: Magnesium Perchlorate

**Special provision:** Read safety instruction, SDS and emergency procedures before handling.

### IMDG

UN number: UN1475  
Class: 5.1  
ERG code: 5L

Packing Group: II  
Proper shipping name: Magnesium Perchlorate  
Marine pollutant: No

Ems: F-H, S-Q

**Special provision:** Read safety instruction, SDS and emergency procedures before handling.

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

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Status:** Listed on Toxic Substance Control Inventory

**CERCLA Reportable Quantity:** Not listed.

#### **SARA Title III**

Section 302: Extremely Hazardous material: Not listed.

Section 313: Toxic Chemicals: Not regulated.

Sections 311/312 Hazardous Categories: Yes

#### **State Regulations:**

California Proposition 65: Not listed

Massachusetts (RTK): Magnesium Perchlorate -CAS# 1034-81-1

Pennsylvania (RTK): Magnesium Perchlorate -CAS# 1034-81-1

New Jersey (RTK): Magnesium Perchlorate -CAS# 1034-81-1

#### **International Regulations:**

Canada: DSL- Yes

NDSL-No

### **Section 16 – OTHER INFORMATION**

**NOTE:** Chemical is a Strong Oxidizer.

Read safety instruction, SDS and emergency procedures before handling.

The information provided in the SDS is believed to be correct to the best of our knowledge and is attended only as guidance for the safe use, storage and disposal of the product. Crossings Inc, cannot assure the accuracy of the information provided and shall not be responsible or liable for any damage or loses resulting from use.

Date: October 6, 2015