**** MATERIAL SAFETY DATA SHEET ****

Magnesium Sulfate Anhydrous
13010

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Magnesium Sulfate Anhydrous
Catalog Number: 380807
Synonyms: Magnesium Sulfate: Epsom Salts
Company Identification: Fisher Scientific
For information, call: 201-789-7195
For CHEMTREC assistance, call: 800-24-HAZAR

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#: 7487-88-9
Sulfuric acid magnesium salt (1:1) 100 231-208-2

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW
Appearance: transparent.
Caution: May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
Target Organs: Skin & Eyes
Potential Health Effects
Eye: May cause mild eye irritation.
Skin: May cause skin irritation.
Inhalation: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: May cause respiratory tract irritation.
Chronic: No information found.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.
Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Remove contaminated clothing and shoes.
Inhalation: If victim is conscious and alert, give 2-4 cupsfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.
Antidote: Use the Caustic gluconate to precipitate the oxalate should be determined by only qualified medical personnel.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information: Material will not burn.
Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.
Autoignition Temperature: Not available.
Flash Point: Not available.
NFPA Rating: Not published.
Explosion Limits, Lower: Not available.
Upper: Not available.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 6.

**** SECTION 7 - HANDLING and STORAGE ****

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.
Storage: Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name: ACGIH
NIOSH
OSHA - Final PELs
Sulfuric acid magnesium salt (1:1) non listed none listed none listed

OSHA Vacated PELs:
Sulfuric acid magnesium salt (1:1): No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Appearance: transparent
Odor: odorless
pH: Not available.
Vapor Pressure: 0.1 mm Hg @ 20
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Refrigeration: decomposes
Decomposition Temperature: 172 deg C
Solubility: Soluble in water
Specific Gravity/Density: 1.66
Molecular Formula: MgSO4
Molecular Weight: 120.3628

**** SECTION 10 - STABILITY and REACTIVITY ****

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials.
Incompatibilities with Other Materials:
Moisture, heat, and strong oxidizing agents.
Hazardous Decomposition Products: Sulfuric acid (SO3) including sulfurous acid and sulfur dioxide.
Hazardous Polymerization: Has not been reported.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTCS#: 7487-88-9-0004500000
LD50/1440:
Not available.
Carcinogenicity: Sulfuric acid magnesium salt (1:1): 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.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**Ecotoxicity:**
Not available.

**Environmental Fate:**
Not available.

**Physical/Chemical:**
Not available.

**Others:**
Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**RCRA D-Series Maximum Concentration of Contaminants:**
None listed.

**RCRA D-Series Chronic Toxicity Reference Levels:**
None listed.

**RCRA F-Series:**
None listed.

**RCRA P-Series:**
None listed.

**RCRA U-Series:**
None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

**US DOT**
No information available.

**IMO**
No information available.

**IATA**
No information available.

**RID/ADR**
No information available.

**Canadian TDG**
No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

**US FEDERAL**

**TSCA**
CAS# 7487-88-9 is listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
SARA
Section 302 (RQ)
None of the chemicals in this material have a RQ.
Section 302 (TPQ)
None of the chemicals in this product have a TPQ.
SARA Codes
CAS #: 7487-88-9: acute.
Section 313
None of the chemicals are reportable under Section 313.

**Clean Air Act**
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

**Clean Water Act**
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA**
None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**
Sulfuric acid magnesium salt (1:1) is present on state lists from CA, PA, MN, MA, FL, or NJ.

**California No Significant Risk Level**
None of the chemicals in this product are listed.

**European/International Regulations**
European Labeling in Accordance with EC Directives