

MAGNESIUM SULFATE ANHYDROUS
MATERIAL SAFETY DATA SHEET



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SUPPLIER:

Miljac, Inc.
280 Elm Street
New Canaan, CT 06840

Phone: 203-966-8777

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For Emergencies in the U.S., call CHEMTREC: 800-424-9300

1. PRODUCT IDENTIFICATION

Product Name Magnesium Sulfate Anhydrous

Synonyms Magnesium sulfate (1:1); sulfuric acid Magnesium salt (1:1); Epsom Salts; Magnesium sulfate, anhydrous

CAS # 7487-88-9

Molecular Weight 120.36

Chemical Formula $MgSO_4$

2. HAZARDS IDENTIFICATION

Emergency Overview CAUTION! MAY BE HARMFUL IS SWALLOWED.

Inhalation:

Dust may be slightly irritating. Sore throat or coughing may occur.

Ingestion

Since magnesium salts are slowly absorbed, abdominal pain, vomiting and diarrhea may be the only symptoms. However, if elimination is blocked by bowel blockage or other reasons, CNS depression, lack of reflexes, hypocalcemia (deficiency of calcium in the blood) may occur.

Skin Contact:

No adverse effects expected but may cause minor skin irritation.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

3. FIRST AID MEASURES

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

Give several glasses of water to drink or dilute. If large amounts were swallowed, get medical advice.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact:

Wash thoroughly with running water. Get medical advice if irritation develops.

Note to Physician: IV administration of calcium gluconate will partially reverse the effects of acute magnesium toxicity. Ventricular support with calcium chloride infusion and mannitol forced diuresis has also been successful.

4. FIRE FIGHTING MEASURES

Fire:

Not considered being a fire hazard.

Explosion:

Not considered being an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

Use protective clothing and breathing equipment appropriate for the surrounding fire.

5. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills:

Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

6. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

7. EXPOSURE CONTROLS, PERSONAL PROTECTION

Airborne Exposure Limits None established

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators:

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

8. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Transparent crystals, or white powder.

Odor Odorless

Solubility Very soluble in water.

Density 2.65 g/ml @ 4°C

pH Aqueous solution is neutral or slightly acid.

% Volatiles by Volume @ 21°C (70°F) No information found.

Boiling Point N/A

Melting Point 1124°C (2055°F)

Vapor Density (air = 1) No information found.

Vapor Pressure (mmHg) No information found.

Evaporation Rate (BuAc = 1) No information found.

9. STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products Oxides of sulfur and the contained metal.

Hazardous Polymerization Will not occur.

Incompatibilities:

Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium, and calcium.

Conditions to Avoid:

Heat, moisture, incompatibilities.

10. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a mutagen, reproductive effector.

11. ECOLOGICAL INFORMATION

Environmental Fate No information found.

Environmental Toxicity No information found.

12. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local regulations.

13. TRANSPORTATION INFORMATION

Not regulated.

14. REGULATORY INFORMATION

TSCA: Yes

EC Yes

Japan Yes

Australia Yes

Korea Yes

DSL Yes

NDSL No

Phil. Yes

SARA 302 RQ No

SARA 302 TPQ No

SARA 313 List No

SARA 313 Chemical Catg. No

CERCLA No

RCRA 261.33 No

TSCA 8(d) No

NFPA Ratings Health: 1
Flammability: 0
Reactivity: 0

Label Hazard Warning CAUTION! MAY BE HARMFUL IS SWALLOWED.

Label First Aid If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Product Use Laboratory Reagent

Revision Information New 16 section MSDS format, all sections have been revised.

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