

MAGNESIUM SULFATE ANHYDROUS

Material Safety Data Sheet

Mallinckrodt Chemical Inc.

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Emergency Telephone Number

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Effective Date: 11-07-85 Supersedes 08-27-85

PRODUCT IDENTIFICATION:

Synonyms: Magnesium sulfate (1:1); sulfuric acid magnesium salt (1:1)

Formula CAS No.: 7487-88-9

Molecular Weight: 120.36

Hazardous Ingredients:

Chemical Formula: MgSO₄

Magnesium sulfate anhydrous

PRECAUTIONARY MEASURES

WARNING! MAY BE HARMFUL IF SWALLOWED.

Wash thoroughly after handling.

EMERGENCY FIRST AID

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

SEE SECTION 5.

Physical Data

SECTION 1

Appearance: Transparent crystals, or white powder.

Odor: Odorless.

Solubility: Very soluble in water.

Boiling Point: Not applicable.

Vapor Density (Air=1): No information found.

Melting Point: 1124 C (2055 F)
decomposes

Vapor Pressure (mm Hg): No information found.

Specific Gravity: 2.65

Evaporation Rate: No information found.

Fire and Explosion

SECTION 2

Information-----
Fire: Not considered to be a fire hazard.

Explosion: Not considered to be 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.

Reactivity Data

SECTION 3

Stability:-----
Stable under ordinary conditions of use and

storage.

Hazardous Decomposition Products: Oxides of sulfur and the contained metal.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: No incompatibility data found.

Leak/Spill Disposal Information SECTION 4

Clean-up personnel may require respiratory protection from dust. Spills: Sweep up and containerize for reclamation or disposal. Avoid dust dispersal. Trace residue may be flushed to sewer with large amounts of water. Disposal: Whatever cannot be saved for reclamation may be disposed in an approved waste disposal facility.

Ensure compliance with local, state and federal regulations.

Health Hazard Information SECTION 5

A. Exposure/Health Effects

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

Ingestion: Abdominal pain, vomiting and diarrhea may occur.

Skin Contact: May cause minor irritation.

Eye Contact: May cause redness and pain.

Chronic Exposure: No information found.

Aggravation of Pre-existing Conditions: No information found.

B. FIRST AID

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

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

Skin Exposure: Remove any contaminated clothing. Wash skin with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

C. TOXICITY (RTECS, 1986)

No LD50/LC50 information found relating to normal routes of occupational exposure. Mutation references cited. Animal reproductive effects cited.

Occupational Control Measures SECTION 6

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators
(NIOSH Approved)

For conditions of use where exposure to the dust is apparent, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work area.

Storage and Special Information SECTION 7

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

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Addendum to Material Safety Data Sheet

REGULATORY STATUS

Hazard Categories for SARA
Section 311/312 Reporting

Acute	Chronic	Fire	Pressure	Reactive
----- X	-----	----	-----	-----

Product or Components of Product:	SARA EHS Sec. 302		SARA Sec. 313 Chemicals		CERCLA Sec. 103	RCRA Sec.
	RQ	TPQ	Name List	Chemical Category	RQ lbs	261.33
MAGNESIUM SULFATE ANHYDROUS (7487-88-9)	No	No	No	No	No	No

SARA Section 302 EHS RQ:
Reportable Quantity of Extremely Hazardous Substance, listed at 40 CFR 355.

SARA Section 302 EHS TPQ:
Threshold Planning Quantity of Extremely Hazardous substance. An asterisk (*) following a Threshold Planning Quantity signifies that if the material is a solid and has a particle size equal to or larger than 100 micrometers, the Threshold Planning Quantity = 10,000 LBS.

SARA Section 313 Chemicals:
Toxic Substances subject to annual release reporting requirements listed at 40 CFR 372.65.

CERCLA Sec. 103:

Comprehensive Environmental Response, Compensation and Liability Act (Superfund) Releases to air, land or water of these hazardous substances which exceed the Reportable Quantity (RQ) must be reported to the National Response Center, (800-424-8802); Listed at 40 CFR 302.4

RCRA:

Resource Conservation and Recovery Act. Commercial chemical product wastes designated as acute hazards and toxic under 40 CFR 261.33

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