



Loose in the Lab

Seriously Funny Science

Material Safety Data Sheet (MSDS)

MSDS #: LL44005m

Revision Date: Nov 20, 2006

Magnesium Sulfate

Section 1 Chemical Product and Company Identification

Magnesium Sulfate (MgSO₄)

Loose in the Lab, inc. 9462 So. 560 W. Sandy, UT 84070 (888) 403-1189

Section 2 Composition, Information on Ingredients

Magnesium Sulfate anhydrous or heptahydrate

Synonym: epsom salts

CAS#: 7487-88-9 (anhydrous), 10034-99-8 (heptahydrate)

Section 3 Hazards Identification

White, odorless powder.

Avoid inhalation. May irritate eyes and respiratory tract.

Avoid body tissue contact.

Quick Reference:

Health - 0

Flammability - 0

Reactivity - 0

Exposure - 1

Storage - 0

0 is Low hazard

3 is High hazard

Section 4 First Aid Measures

Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 Fire Fighting Measures

Non flammable solid.

NFPA CODE

None

Established

Section 6 Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in 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

Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates.

Store in a cool dry place.

Section 8 Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use exhaust ventilation to keep airborne concentrations low.



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Section 9 Physical and Chemical Properties

White, odorless powder.

Solubility: Very soluble in water. Soluble in glycerol.

Anhydrous decomposes at 1124 C.

Formula: $MgSO_4 \cdot 7H_2O$ or $MgSO_4$ (Anhydrous)

Formula Weight: 246.50 or 120.37

Specific Gravity: 2.65 (for anhydrous)

1.678 (for hydrous).

Section 10 Stability and Reactivity

Shelf Life: Poor; substance hygroscopic.

Section 11 Toxicological Information

Acute effects: Irritant, abdominal pain

Chronic effects: N.A.

Target organs: Central nervous system, GI system

ORL-RAT LD50: N.A

IHL-RAT LC50: N.A

SKN-RBT LD50: N.A

Section 12 Ecological Information

Data not yet available.

Section 13 Disposal Considerations

Please consult with state and local regulations.

Section 14 Transport Information

Shipping Name: Not regulated

Hazard Class: N/A

UN Number: N/A

N/A = Not applicable

Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-298-2).

Section 16 Other Information

Consult your copy of the Loose in the Lab Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Loose in the Lab Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Loose in the Lab Inc. assumes no legal responsibility for use or reliance upon this data.