

MATERIAL SAFETY DATA SHEET

Trade Name: Epsom Salt, Magnesium Sulfate, U.S.P.

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Epsom Salt, Magnesium Sulfate, U.S.P. Product

description: Magnesium sulfate, heptahydrate

Manufacturer: Giles Chemical

102 Commerce Street

Waynesville, NC 28786 USA

 Telephone:
 828-452-4784

 In case of emergency call:
 828-452-4784

For transportation emergency

Call CHEMTREC: **800-424-9300**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name CAS Registry Wt. % OSHA PEL ACGIH TLV

Number

Magnesium sulfate, heptahydrate; 10034-99-8* 100% Not Established Not Established

Epsom salt

3. HAZARDS IDENTIFICATION

Emergency Overview: White or transparent crystalline odorless powder.

Noncombustible. At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated. Causes mild eye irritation.

Eye contact: Causes mild irritation to the eyes.

Skin contact: No known adverse effects.

Inhalation:Causes nausea, vomiting, abdominal cramps, and diarrhea.Ingestion:Causes nausea, vomiting, abdominal cramps, and diarrhea.Chronic hazards:No known chronic hazards. Not listed by NTP, IARC or OSHA

as a carcinogen.

Physical hazards: Spilled material can be slippery.

4. FIRST AID MEASURES

Eye: In case of contact, immediately flush eyes with plenty of water for at least

15 minutes. Get medical attention if irritation persists.

Skin: Not applicable.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing

is difficult, give oxygen. Get medical attention.

^{*} Under the Toxic Substances Control Act (TSCA), hydrates are considered as mixtures of their anhydrous salt and water. Accordingly, the CAS Numbers 7487-88-9, 7732-18-5 are used for purposes of TSCA.

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Ingestion: If large quantities of this material are swallowed, call a physician immediately.

Do NOT induce vomiting unless directed to do so by a physician. Never give

anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammable limits: This material is noncombustible.

Extinguishing Media: This material is compatible with all extinguishing media.

Hazards to fire-fighters: See Section 3 for information on hazards when this material is present

in the area of a fire.

Fire-fighting equipment: The following protective equipment for fire fighters is

recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear chemical goggles, See section 8.

Environmental Hazards: Sinks and mixes with water. No adverse effects known. Not a listed toxic chemical

under SARA Title III, §313 40 CFR Part 372. Not a CERCLA Hazardous

Substance under 40 CFR Part 302.

Small spill cleanup: Sweep, scoop or vacuum discharged material. Flush residue with water.

Observe environmental regulations.

Large spill cleanup: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch

or walk through spilled material. Sweep, scoop or vacuum discharged material.

Flush residue with water. Observe environmental regulations.

CERCLA RQ: There is no CERCLA Reportable Quantity for this material.

7. HANDLING AND STORAGE

Handling: Avoid breathing dust. Promptly clean up pills.

Storage: Keep containers closed. Protect from extremes of temperature and humidity

during storage. Recommended storage conditions 68-110° F and 54-87% relative

humidity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use with adequate ventilation. Safety shower and eyewash fountain should be

within direct access.

Respiratory protection: Use a NIOSH-approved dust respirator where dust occurs. Observe

OSHA regulations for respirator use (29 C.F.R. §1910.134)

Skin protection: Wear gloves if abrasion or irritation occurs.

Eye protection: Wear chemical goggles.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystalline odorless powder.
Color: White or transparent.

Odor: Odorless.

pH: Approximately 6-7

Specific gravity: 1.76 g/cm³, Bulk Density Approximately 1.05 g/cm³

Solubility in water: 71g/100 ml at 20° C, 91g/100 ml at 40° C

10. STABILITY AND REACTIVITY

Stability: This material is stable under all conditions of use and storage.

Conditions to avoid: None.

Materials to avoid: Metal hydrides and other water reactive materials.

Hazardous decomposition

products: At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide

may be generated.

11. TOXICOLOGICAL INFORMATION

Acute Data: When tested for primary irritation potential, this material caused mild eye

irritation. RTECS reports Oral TDLo= 428 mg/kg in man 351 mg/kg in women

12. ECOLOGICAL INFORMATION

Eco toxicity: Data not available.

Environmental Fate: This material is not persistent in aquatic systems and does not contribute to BOD. It

does not bioconcentrate up the food chain.

Physical/Chemical: Sinks and mixes with water.

13. DISPOSAL CONSIDERATIONS

Classification: Disposed material is not a hazardous waste.

Disposal Method: Landfill according to local, state, and federal regulations. Disposed material is

not a RCRA Hazardous waste.

14. TRANSPORT INFORMATION

DOT UN Status: This material is not regulated hazardous material for transportation.

15. REGULATORY INFORMATION

CERCLA: No CERCLA Reportable Quantity has been established for this material.

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SARA TITLE III: Not an Extremely Hazardous Substance under §302. Not a Toxic

Chemical under §313. Hazard Categories under §§311/312: Acute All ingredients of this material are listed on the TSCA inventory. Magnesium sulfate is an FDA GRAS substance pursuant to 21 CFR

184.1443.

16. OTHER INFORMATION

TSCA:

FDA:

Prepared by: Mark A. Shand
Date of Preparation: 08/07/13

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO Giles Chemical. This document is intended only as a guide to the appropriate precautions for handling a chemical by a person trained in chemical handling. Giles Chemical Makes no warranty of merchantability or any other warranty, express or implied with respect to such information or the product to which it relates, and we assume no liability resulting from the use or handling of the product to which this safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.