



Material Safety Data Sheet

SECTION 1: Chemical Product and Company Identification

Manufacturer: Cumberland Swan
One Swan Drive
Smyrna, TN 37167

Date: January 2004

Telephone: (615) 459-8900
24hr Emergency: (615) 459-8900 ext. 5270

Product: Epsom Salt

SECTION 2: Composition / Information on Ingredients

Name: Magnesium Sulfate, heptahydrate

CAS#: 10034-99-8

SECTION 3: Hazards Identification

Exposure to a large single dose may cause sneezing and dryness of mucous membranes. Pain, redness and tearing (eye exposure). Nausea, vomiting, abdominal cramps, and diarrhea (ingestion).

Potential Routes of Exposure: Ingestion, inhalation, eye contact

Target Organs: None identified

Symptoms of Overexposure:

Inhalation: Low oral toxicity. Dust may irritate.

Ingestion: Low oral toxicity. Purgative. Causes nausea, vomiting, abdominal cramps, and diarrhea. If renal insufficiency is present, may cause magnesium intoxication.

HMIS: H=0, F=0, R=0 See Section 8 for PPE information

SECTION 4: First Aid Measures

Eye: Flush eyes with copious amount of water for at least 15 minutes

Skin: Wash with soap and water. Then flush skin with clean water.

Ingestion: An anticonvulsant and purgative substance. Seek medical attention or contact the poison control center. In the presence of renal insufficiency, may lead to magnesium intoxication..

Inhalation: Obtain Medical Attention. Take to fresh air.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Use water fog, alcohol foam, dry chemical or CO₂
Unusual Fire or None Identified
Explosion Hazards:
Recommendations: Clear area of unprotected personnel. Wear positive pressure supplied air breathing apparatus.

SECTION 6: Accidental Release Measures

Large Spills: May dissolve in large amounts of water.
Small Spills: Sweep, Scoop, or vacuum discharged material.

SECTION 7: Handling and Storage

Storage Requirements: Store in tightly closed containers in a cool, dry area to prevent caking.
Handling precautions: Maintain appropriate class of fire extinguishers nearby case of fire.

SECTION 8: Exposure Controls / Personal Protection

OSHA PEL=N/A OSHA STEL=N/A

Recommended Engineering Controls: Use ventilation equipment
Recommended Admin Control: Train employees on the safety hazards of dusts
PPE: Goggles, gloves, and respirator when handling large amounts
Recommended Hygiene Practices: After working with this product, be sure to wash before eating, smoking, drinking, or applying cosmetics.

SECTION 9: Physical and Chemical Properties

Appearance:	Clear Crystal	Freezing Point:	No Data	Autoignition:	N/A
Odor:	Odorless	Water Solubility:	Appreciable	LEL:	N/A
Odor Threshold:	Not Available	Molecular Weight:	N/A	UEL:	N/A
Vapor Pressure:	No Data	Specific Gravity:	1.05	Vapor Density:	N/A
Boiling Point:	No Data	Flash Point:	N/A		

SECTION 10: Stability and Reactivity

Stability: Stable
Polymerization: Will not occur
Conditions to avoid: Magnesium oxide, sulfur dioxide, and sulfur trioxide at high temperatures.
Hazardous Products: Same as “Conditions to Avoid” of Decomposition

SECTION 11: Toxicological Information

LD50: N/A LC50: N/A LDLO: N/A
Carcinogenicity: Not identified as a carcinogen by OSHO, IARC, or NTP
Mutagenicity: Not Indicated
Reproductive Effects: Not Indicated

SECTION 12: Ecological Information

Ecotoxicity: N/A Environmental Fate: N/A Soil Absorption/Mobility: N/A
Environmental Degradation: No Data

SECTION 13: Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations.
Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations.

SECTION 14: Transport Information

Shipping Name: Epsom Salts, Non Hazardous

SECTION 15: Regulatory Information

RCRA Hazardous Waste Number/Classification: N/A
CERCLA Substance: N/A
CERCLA Reportable Quantity: N/A
SARA 311/312 Codes: N/A
SARA Toxic Chemicals: (Hydrates are considered under TSCA as mixtures of the anhydrous salt and water)

SECTION 16: Other Information

Prepared by: Cumberland Swan

Sources of Information: 29CFR1910.1000; NIOSH Pocket Guide to Chemical Hazards (1993); Occupational Health Guidelines for chemical Hazards; NFPA Guide to Hazardous Materials - 10th Edition.

Disclaimer: While reasonable care has been taken to ensure the accuracy and completeness of the information regarding the material described herein, it is the purchaser's responsibility to ensure the suitability of such information as it applies to the purchaser's intended use of the material.