

Safety Data Sheet

Section 1: Identification

Product Name: Epsom Salt, Magnesium Sulfate

Product Code: Epsom Salt, Magnesium Sulfate

Synonyms: Magnesium Sulfate Heptahydrate, Epsom Salts.

Recommended Use: Further manufacturing of feed.

Uses advised against: No information available.

Company Identification:

Origination, LLC
1802 Wooddale Drive, Suite 200
Woodbury, MN 55125

For information, call: 1-800-625-6079

Emergency Number: 1-800-625-6079

For CHEMTREC assistance, call: 1-800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2: Hazard(s) Identification

Classification

OSHA Regulatory Status: White or transparent crystalline odorless powder. Noncombustable. At very high temperatures, magnesium oxide, sulfur dioxide and sulfur trioxide may be generated. No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen. Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview: The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance: Granular to fine granular.

Physical state: Solid.

Odor: None.

Causes mild irritation to the eyes. No known adverse effects. Causes nausea, vomiting, abdominal cramps and diarrhea. Spilled material can be slippery.

Hazards not otherwise classified (HNOC)

Unknown Acute Toxicity: 100% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: Composition / Information on Ingredients

Synonyms: Magnesium sulfate heptahydrate, Epsom salts.

Chemical Name	CAS No.	Weight-%	Trade Secret
Magnesium Sulfate Heptahydrate	10034-99-8	100	

Section 4: First Aid Measures

First-aid measures

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. (Call a physician if irritation persists).

Skin Contact: Not Applicable.

Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Get medical attention immediately.

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.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5: Fire Fighting Measures

Suitable extinguishing media: This material is compatible with all extinguishing media..

Unsuitable extinguishing media: None.

Specific hazards arising from the chemical: See Section 2 for information on hazards when this material is present in the area of a fire.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear goggles. See Section 8.

Environmental precautions

Environmental precautions: Sinks and mixes with water. No adverse effects known.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Sweep, scoop or vacuum discharged material. Flush residue with water.

Prevention of secondary hazards: For 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.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling: Avoid breathing dust. Promptly clean up spills.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers closed and protected from extremes of temperature and humidity during storage. Recommended storage conditions 68-110°F and 54-87% relative humidity.

Incompatible materials: Metal hydrides and other water reactive materials..

Section 8: Exposure Controls, Personal Protection

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear chemical goggles.

Skin and body protection: Wear gloves if abrasion or irritation occurs.

Respiratory protection: Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134 for level of exposure incurred.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Solid.

Appearance: Granular to fine granular.

Color: White or transparent.

Odor: None.

Odor threshold: No information available.

pH: Approx. 6-7

Melting point/freezing point: No information available.

Boiling point / boiling range: No information available.

Flash point: No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Flammability Limit in Air

Upper flammability limit: No information available.

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Lower flammability limit: No information available.

Vapor pressure: No information available.

Vapor density: No information available.

Specific Gravity: 1.76g/cm³.

Water solubility: 71g/100ml at 20°C 91g/100ml at 40°C.

Solubility in other solvents: No information available.

Partition coefficient: No information available.

Autoignition temperature: No information available..

Decomposition temperature: No information available.

Kinematic viscosity: No information available.

Dynamic viscosity: No information available.

Explosive properties: No information available.

Oxidizing properties: No information available.

Other Information

Softening point: No information available.

Molecular weight: No information available.

VOC Content (%): No information available.

Density: No information available.

Bulk density: 60-70 lb/ft³

Section 10: Stability and Reactivity

Reactivity: No data available.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: Extremes of temperature and direct sunlight.

Incompatible materials: Metal hydrides and other water reactive materials.

Hazardous decomposition products: At very high temperatures, magnesium oxide, sulfur dioxide and sulfur trioxide may be generated.

Section 11: Toxicological Information

Information on likely routes of exposure

Product Information: No data available.

Inhalation: No data available.

Eye contact: Irritating to eyes.

Skin contact: No data available.

Ingestion: No data available.

Information on toxicological effects

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Symptoms: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity: 100% of the mixture consists of ingredient(s) of unknown toxicity.

Section 12: Ecological Information

Ecotoxicity: This material is not persistent in aquatic systems.

Persistence and degradability: No information available.

Bioaccumulation: Material does not bioaccumulate.

Mobility: Sinks and mixes with water.

Other adverse effects: No information available.

Section 13: Disposal Considerations (non-mandatory)

Waste treatment methods

Disposal of wastes: This product does not exhibit any characteristics of a hazardous waste. The product is suitable for landfill disposal. Follow all applicable federal, state and local regulations for safe disposal.

Contaminated packaging: Do not reuse container.

Section 14: Transport Information

DOT: Not regulated by DOT as a hazardous material. No hazard class, label or placard required, no UN or NA number assigned.

Section 15: Regulatory Information

International Inventories

TSCA: Complies

DSL/NDL: Complies

EINECS/ELINCS: Does not comply

ENCS: Complies

IECSC: Complies

KECL: Does not comply

PICCS: Complies

AICS: Complies

Magnesium Sulfate Heptahydrate - Epsom Salt



Legend:

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS: Japan Existing and New Chemical Substances
IECSC: China Inventory of Existing Chemical Substances
KECL: Korean Existing and Evaluated Chemical Substances
PICCS: Philippines Inventory of Chemicals and Chemical Substances
AICS: Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard: No
Chronic Health Hazard: No
Fire hazard: No
Sudden release of pressure hazard: No
Reactive Hazard: No

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations: None.

U.S. EPA Label Information

EPA Pesticide Registration Number: Not Applicable.

Section 16: Additional Information

NFPA

Health hazards: 1
Flammability: 0
Instability: 0
Physical and Chemical Properties: -

HMIS

Health hazards: 1
Flammability: 0
Physical hazards: 0
Personal protection: X

Prepared by: Origination, LLC

Prepared: November 12, 2020

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