# SAFETY DATA SHEET

Issue Date 17-February 2015 Revision Date 17-March 2020 Version 2

### SECTION 1: Identification

Product identifier

**Product Name** Epsom Salt, Magnesium Sulfate

Other means of identification

**Product Code** 

Epsom Salt, Magnesium Sulfate, U.S.P., Technical, Magriculture®

Synonyms Magnesium Sulfate Heptahydrate, Epsom Salts

Recommended use of the chemical and restrictions on use

Recommended Use

USP grade: Bath soak. 1.

Agricultural grade: For use in correcting magnesium deficiency in crops and for use in animal feed.

Technical grade: For industrial use.

Uses advised against

No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Giles Chemical, a Division of Premier Magnesia, LLC, 75 Giles Place, Waynesville, NC 28786

Emergency telephone number

Company Phone Number

828-452-4784

24 Hour Emergency Phone

Chemtrec 1-800-424-9300

Number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

### SECTION 2. Hazard(s) identification

Classification

GHS: Not classified EC: Not classified

Label elements

Not Applicable

Hazards Summary: Spillages may be slippery. Dust may cause mild eye irritation. Ingestion may cause abdominal cramps and diarrhea.

# SECTION 3. Composition / Information on Ingredients

Synonyms

Magnesium sulfate heptahydrate, Epsom salts

Chemical Name	CAS No.	Weight-%	Trade Secret
Magnesium sulfate	10034-99-8	100	11640 000101

### SECTION 4. First aid measures

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

medical attention if irritation persists.

Skin contact:

If irritation develops, seek medical attention.

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.

Note to physicians

Treat symptomatically.

# 5. Fire-fighting measures

#### Suitable extinguishing media

This material is compatible with all extinguishing media and standard firefighting techniques.

Unsuitable extinguishing

None.

media

# Specific hazards arising from the chemical

Oxides of sulfur may be generated during fire. Noncombustible

### Protective equipment and precautions for firefighters

As in any fire, use self-contained breathing apparatus and suitable protective clothing.

# SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions Wear goggles. If inhalation exposure potential is above local exposure limits, use appropriate

respiratory protection for particulate, in accordance with prevailing regulatory requirements.

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.

# SECTION 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Avoid generating dust. Promptly clean up spills. Material

### Conditions for safe storage, including any incompatibilities

Storage Conditions . Keep containers closed and protected from extremes of temperature and humidity during storage.

Material is not affected by impact.

Incompatible materials Metal hydrides and other water reactive materials.

# SECTION 8. Exposure controls / personal protection

#### Control parameters

Exposure Guidelines ACGIH: Particulate not otherwise classified. TLV Inhalable: 10 mg/m3.TLV Respirable: 3 mg/m3.

OSHA: PEL Total: 15mg/m3 Respirable: 5 mg/m3

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation. Ensure eye washes and safety showers are available.

# Individual protection measures, such as personal protective equipment

Eyelface protection Wear safety glasses or chemical goggles.

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

Respiratory protection Avoid inhalation of dust. Use suitable respiratory protection in accordance with requirements of 29

CFR 1910. 134, based on the 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

Appearance

Color

Granular to fine granular

No information available

No information available

White or transparent

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Not applicable

Odor

None

Odor threshold

Remarks • Method

No information available

**Property** 

Ph Approx. 6-7 at 5% w/w in water Melting point> 1000C

Melting point/freezing point Boiling point / boiling range Flash point Evaporation rate

Flammability (solid, gas) Flammability Limit in Air Upper flammability limit:

Lower flammability limit: Vapor pressure

Vapor density Specific Gravity

Water solubility

1.76g/cm<sup>3</sup>

71g/100ml at 20° C 91g/100ml at

40° C No information available

Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity **Explosive properties** Oxidizing properties

No information available No information available

Other Information

Softening point Molecular weight VOC Content (%) Density

No information available No information available No information available No information available **Bulk density** 55-58 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 Dust may be irritating to eyes

Skin Contact No data available.

Ingestion RTECS: Oral LDlo 428mg/kg in man; 351 mg/kg in woman

Information on toxicological effects

Symptoms No information available.

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

Sensitization Germ cell mutagenicity

No information available. No information available.

Carcinogenicity

Not listed by IARC, NTP, or OSHA

Reproductive toxicity STOT - single exposure

No information available.

STOT - repeated exposure

Not classified Not classified

Aspiration hazard

No information available.

# SECTION 12. Ecological information

**Ecotoxicity** Not classified as PBT vPvB

#### 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

### Waste treatment methods

This product does not exhibit any characteristics of a hazardous waste. Follow all applicable Disposal of wastes

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** Listed as magnesium sulfate

### Epsom Salt, Magnesium Sulfate

DSL/NDSL Listed **EINECS/ELINCS** 231-298-2 **ENCS** Listed **IECSC** Listed KECL Listed **PICCS** Listed **AICS** Listed

#### 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 No information

#### **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. EPA Label Information

**EPA Pesticide Registration** 

Not Applicable

Number

### SECTION 16. Other information

NFPA Health hazards 1 Flammability 0 Instability 0 Specific hazards HMIS Health hazards 1 Flammability 0 Physical hazards 0 Personal protection X

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**Revision Note** NΑ

#### <u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet