

Safety	/ Data	Sheet
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SDS No:	
Version No:	002 2017-10-19
Order No:	

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300

<u>SAFETY DATA SHEET</u>

<u>SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE</u> <u>AND OF THE COMPANY/UNDERTAKING</u>

1.1 Product identifier

Product Name Epsom Salt, Magnesium Sulfate, U.S.P.

Alternative names Magnesium sulfate, heptahydrate

CAS No. 10034-99-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s) Pharmaceutical

1.4 Emergency telephone number

Emergency Phone No. +1 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

EC Classification Not classified as dangerous for supply/use.

Hazards summary

2.2 Label elements May cause mild eye irritation

Hazard pictogram(s) Not applicable

Signal word(s) Not applicable

Hazard statement(s) Not applicable

Precautionary statement(s)

2.3 Other hazards Caution - spillages may be slippery.

<u>SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</u>

Regulation (EC) No. 1272/2008 (CLP)

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Ingredient(s)	%W/W	CAS No.	EINECS No. /	Hazard symbol(s) and
			REACH Registration	hazard statement(s)
Magnesium sulfate,	100 %	10034-99-8	231-298-2	
heptahydrate				

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact If substance has got into the eyes, immediately wash out with

plenty of water for at least 15 minutes. If symptoms persist,

obtain medical attention.

If irritation (redness, rash, blistering) develops, get medical Skin Contact

attention.

Inhalation Remove patient from exposure, keep warm and at rest. If

symptoms develop, obtain medical attention.

Do not induce vomiting. Wash out mouth with water. If large Ingestion

amount swallowed or symptoms develop obtain medical attention.

4.2 Most important symptoms

May cause mild eye irritation

and effects, both acute and delayed

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Compatible with all standard fire fighting techniques. Unsuitable extinguishing Media Not applicable.

5.2 Special hazards arising from the substance or mixture

Inorganic powder or granules. Non-combustible.

5.3 Advice for fire-fighters Goggles. A self contained breathing apparatus and suitable

protective clothing should be worn in fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, Goggles.

protective equipment and An approved dust mask should be worn if dust is generated

during handling. emergency procedures See Also Section 8.

6.2 Environmental precautions Sinks and mixes with water.

6.3 Methods and materials for Caution - spillages may be slippery. Contain spillages. Dampening with water can reduce dust. Sweep or preferably containment and cleaning up

vacuum up and collect in suitable containers for recovery or

disposal. Observe Local Regulations.

Not applicable. 6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Avoid generation of dust.

See Also Section 8.

Wear protective equipment to comply with good occupational

hygiene practice.

Do not eat, drink or smoke at the work place.

Keep container tightly closed and dry. Protect from extremes of 7.2 Conditions for safe storage,

including any incompatibilities temperature and humidity. Store bags flat until use.

7.3 Specific end use(s) Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
	UK EH40: Dust
	Total inhalable: WEL 10mg/m3 8h TWA. Respirable: WEL 4mg/m3 8h
	TWA. ACGIH: Particulates not otherwise classified
	Inhalable TLV 10mg/m3 8h TWA. Respirable: TLV 3mg/m3 8h TWA.
	OSHA: Inert or Nuisance Dust
	Total dust: PEL 15mg/m3 8h TWA. Respirable fraction: PEL 5mg/m3 8h
	TWA.

8.2 Exposure controls

8.2.1 Appropriate engineering

controls

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of

process conditions.

8.2.2 Personal Protection

Respiratory protection Avoid inhalation of dusts. Wear suitable respiratory protective

equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Eye/face protection Safety spectacles. Goggles.

Skin protection Wear suitable protective clothing and gloves. If abrasion or

ittiation occurs

8.2.3 Environmental Exposure

Controls

Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Powder. White. Odour Odourless.

Odour Threshold (ppm)

pH (Value) 6 - 7 at 5% w/w in water.

Freezing Point (°C)

Melting Point (°C)

Boiling Point (°C)

Flash Point (°C) [Closed cup]

Evaporation rate

Not applicable.

Not applicable.

Not applicable.

Evaporation rate
Flammability (solid, gas)
Explosive Limit Ranges
Vapour Pressure (mm Hg)
Vapour Density (Air=1)
Density (g/ml)
Solubility (Water)
Not applicable.
Not applicable.
Not applicable.

Solubility (Water) 71 g/100 ml at 20°C, 91 g/100 ml at 40°C

Partition Coefficient
Auto Ignition Point (°C)
Decomposition Temperature (°C)
Viscosity (mPa. s)
Explosive properties
Oxidising Properties
9.2 Other information
Not applicable.
Not applicable.
Not applicable.
Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal temperature conditions and recommended

use.

10.2 Chemical stability Stable. **10.3 Possibility of hazardous** None known.

reactions

10.4 Conditions to avoid Not available.

10.5 incompatible materials 10.6 Hazardous decomposition Metal hydrides and other water reactive materials.

At very high temperatures, magnesium oxide, sulfur dioxide, and product(s)

sulfur trioxide may be generated.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion RTECS reports Oral TDLo= 428 mg/kg in man 351 mg/kg in

women

Inhalation Dust may cause irritation

Dust may have a drying effect on the skin. Skin Contact Dust may cause discomfort and mild irritation. Eye Contact

Skin corrosion/irritation Dust may cause irritation

Not classified Sensitisation Not classified Mutagenicity

Components are not listed by IARC, NTP or OSHA as Carcinogenicity

carcinogens.

Reproductive toxicity Not classified STOT - single exposure Not classified STOT - repeated exposure Not classified Other information Not available.

SECTION 12: ECOLOGICAL INFORMATION

Not available. 12.1 Toxicity 12.2 Persistence and Not available.

degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil Sinks in water

Not classified as PBT or vPvB. 12.5 Results of PBT and vPvB

assessment

Not available. 12.6 Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national

Not a hazardous waste under RCRA Sec.3001. This material is

not classified as hazardous waste under EC Directive

2008/98/EC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and

Wales) Regulations SI 2005 No. 894.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number Not classified as hazardous under DOT or US Transport

Recommendations.

14.2 Proper Shipping Name Not applicable 14.3 Transport hazard class(es) Not applicable 14.4 Packing group Not applicable 14.5 Environmental hazards Not applicable

14.6 Special precautions for user No special packaging requirements.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included. AICS Inventory Status: Reported/Included. DSL/NDSL Inventory Status: Reported/Included.

Magnesium sulfate is an FDA GRAS substance pursuant to 21CFR 184.1443

HMIS:

Health Hazard: 0
Fire Hazard: 0
Reactivity: 0

15.2 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 07/2014

The following sections contain revisions or new statements: New Issue

EC Classification No. 67/548/EEC Not classified as dangerous for supply/use.

Hazard Symbol Risk Phrases

Safety Phrases Handle in accordance with good industrial hygiene and safety

practices.

Avoid inhalation of dusts.

GHS Classification Not classified as dangerous for supply/use.

Signal word(s) Not applicable

Hazard pictogram(s)

Hazard statement(s)

Precautionary statement(s)

Not applicable

Not applicable

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Safety Data Sheet

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