

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE

AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Epsom Salt, Technical Grade
Alternative names Magnesium sulfate, heptahydrate

CAS No. 10034-99-8

Rocky Mountain Reagents
SCIENTIFIC SOLUTIONS SINCE 1991

4621 Technology Drive, Golden, CO 80403

Distributed by:

4621 Technology Drive, Golden, CO 80403 ph: (303) 762-0800 fax: (303) 762-1240

Product #: M1032

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

Identified use(s) Industrial use only

1.3 Details of the supplier of the safety data sheet

Company Identification PQ Corporation

P.O. Box 840 Valley Forge PA 19482 USA

Telephone: +1 610-651-4200 E-Mail (competent person) sds.uk@pqcorp.com

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 May cause mild eye irritation

2.2 Label elements
Hazard pictogram(s)

Signal word(s) Not applicable

Hazard statement(s) Not applicable

Precautionary statement(s) Not applicable

2.3 Other hazards Caution - spillages may be slippery.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

regulation (EO) No. 1212/2000 (OEI)				
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

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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.

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

attention.

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

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 and effects, both acute and

delayed

May cause mild eye irritation

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Unsuitable extinguishing Media

5.2 Special hazards arising from

the substance or mixture

Compatible with all standard fire fighting techniques.

Not applicable.

Inorganic powder or granules. Non-combustible.

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

Sinks and mixes with water. 6.2 Environmental precautions

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.

6.4 Reference to other sections Not applicable.

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.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

Keep container tightly closed and dry. Protect from extremes of

temperature and humidity. Store bags flat until use.

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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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)

Not applicable.

> 1000

Boiling Point (°C) Not applicable. Flash Point (°C) [Closed cup] Not applicable. Evaporation rate Not applicable. Flammability (solid, gas) Not applicable. **Explosive Limit Ranges** Not applicable. Vapour Pressure (mm Hg) Not applicable. Vapour Density (Air=1) Not applicable. Not applicable. Density (g/ml)

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 applicable.
Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal temperature conditions and recommended

use.

10.2 Chemical stabilityStable.10.3 Possibility of hazardousNone known.

reactions

10.4 Conditions to avoid Not available.

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10.5 Incompatible materials

10.6 Hazardous decomposition

product(s)

Metal hydrides and other water reactive materials.

At very high temperatures, magnesium oxide, sulfur dioxide, and

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

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

Skin corrosion/irritation Dust may cause irritation

Sensitisation Not classified Mutagenicity Not classified

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

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

Sinks in water 12.4 Mobility in soil

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

assessment

Not available. 12.6 Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

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

legislation.

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

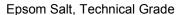
Recommendations.

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

14.6 Special precautions for user No special packaging requirements.

SECTION 15: REGULATORY INFORMATION

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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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