

<u>SAFETY DATA SHEET</u>

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

1.1 Product identifier Product Name Alternative names CAS No.

Epsom Salt, Magnesium Sulfate, U.S.P. Magnesium sulfate, heptahydrate 10034-99-8

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified use(s) Pharmaceutical

sds.uk@pqcorp.com

1.3 Details of the supplier of the safety data sheetCompany IdentificationPQ CorporationP.O. Box 840Valley ForgePA 19482USATelephone:+1 610-651-4200



1.4 Emergency telephone number

E-Mail (competent person)

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)				
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.
Skin Contact	If irritation (redness, rash, blistering) develops, get medical attention.
Inhalation	Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.
Ingestion	Do not induce vomiting. Wash out mouth with water. If large amount swallowed or symptoms develop obtain medical attention.
4.2 Most important symptoms and effects, both acute and	May cause mild eye irritation

delayed

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 5.3 Advice for fire-fighters Compatible with all standard fire fighting techniques. Not applicable. Inorganic powder or granules. Non-combustible.

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, protective equipment and emergency procedures	Goggles. An approved dust mask should be worn if dust is generated during handling. See Also Section 8.
6.2 Environmental precautions 6.3 Methods and materials for containment and cleaning up	Sinks and mixes with water. Caution - spillages may be slippery. Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or
6.4 Reference to other sections	disposal. Observe Local Regulations. Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling	Avoid generation of dust. See Also Section 8.
7.2 Conditions for safe storage, including any incompatibilities 7.3 Specific end use(s)	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 temperature and humidity. Store bags flat until use. 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 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

Powder. White.

9.1 Information on basic physical and chemical properties

Appearance Odour Odour Threshold (ppm) pH (Value) Freezing Point (°C) Melting Point (°C) Boiling Point (°C) Flash Point (°C) [Closed cup] Evaporation rate Flammability (solid, gas) Explosive Limit Ranges Vapour Pressure (mm Hg) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Partition Coefficient Auto Ignition Point (°C) Decomposition Temperature (°C) Viscosity (mPa. s) Explosive properties **Oxidising Properties** 9.2 Other information

Odourless. 6 - 7 at 5% w/w in water. Not applicable. > 1000 Not applicable. 71 g/100 ml at 20°C, 91 g/100 ml at 40°C Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability
10.3 Possibility of hazardous
reactions
10.4 Conditions to avoid

Stable under normal temperature conditions and recommended use. Stable. None known.

Not available.



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	

Inhalation
Skin Contact
Eye Contact
Skin corrosion/irritation
Sensitisation
Mutagenicity
Carcinogenicity

Reproductive toxicity STOT - single exposure STOT - repeated exposure Other information RTECS reports Oral TDLo= 428 mg/kg in man 351 mg/kg in women Dust may cause irritation Dust may have a drying effect on the skin. Dust may cause discomfort and mild irritation. Dust may cause irritation Not classified Not classified Components are not listed by IARC, NTP or OSHA as carcinogens. Not classified Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	Not available.
12.2 Persistence and	Not available.
degradability	
12.3 Bioaccumulative potential	
12.4 Mobility in soil	Sinks in water
12.5 Results of PBT and vPvB	Not classified as PBT or vPvB.
assessment	
12.6 Other adverse effects	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Disposal should be in accordance with local, state or national 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.
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 Hazard Symbol Risk Phrases	Not classified as dangerous for supply/use.
Safety Phrases	Handle in accordance with good industrial hygiene and safety practices. Avoid inhalation of dusts.
GHS Classification Signal word(s) Hazard pictogram(s)	Not classified as dangerous for supply/use. Not applicable
Hazard statement(s) Precautionary statement(s)	Not applicable Not applicable

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