

# <u>SAFETY DATA SHEET</u>

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name MagnaGrow®, Magnesium Sulfate Heptahydrate

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) Agricultural use only. For use in correcting magnesium

deficiency in crops and animal feed.

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)

	T =	r <b>'</b> =	T	
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**

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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

delayed

May cause mild eye irritation

## **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

emergency procedures during handling. See Also Section 8.

**6.2 Environmental precautions** Sinks and mixes with water.

**6.3 Methods and materials for containment and cleaning up**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

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

Keep container tightly closed and dry. Protect from extremes of

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

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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 stability10.3 Possibility of hazardousNone known.

reactions

**10.4 Conditions to avoid**Not available.

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**10.5 Incompatible materials** Metal hydrides and other water reactive materials.

**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

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

#### SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity 12.2 Persistence and**Not available.
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 NameNot applicable14.3 Transport hazard class(es)Not applicable14.4 Packing groupNot applicable14.5 Environmental hazardsNot applicable

**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: 05/2015

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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