

**MAGNESIUM SULPHATE****Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name	Epsom Salt Epsom Salt pure, technical Epsom Salt pure, technical, fine crystalline Epsom Salt chemically pure
Chemical name	Magnesium sulfate heptahydrate
EC no	231-298-2 (anhydrate)
CAS no	10034-99-8

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Relevant identified uses**

Use of the substance/mixture	Industrial use
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1.2.2 Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company Name	The Soap Kitchen Ltd
Office address	Unit E Swinton Bridge Industrial Estate White Lea Road Swinton South Yorkshire S64 8BH UK 01237420872 enquiries@thesoapkitchen.co.uk

1.4 Emergency telephone number

Emergency Telephone	999 emergency services (UK only) 112 emergency services (Europe only)
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Section 2: Hazards Identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 (CLP)
Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)
No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**MAGNESIUM SULPHATE****Section 3: Composition/information on ingredients****3.1 Substances**

Chemical name	Magnesium sulfate heptahydrate
EC no	231-298-2 (anhydrate)
CAS no	10034-99-8

Full text of H-statements: see section 16

3.2 Mixture

Not applicable

Section 4: First Aid Measures**4.1. Description of first aid measures**

Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact	Wash skin with plenty of water.
Eye contact	Rinse eyes with water as a precaution.
Ingestion	Call for medical assistance if person feels unwell.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

Section 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Water spray. Dry powder. Foam.
Unsuitable extinguishing media	No information available.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	Toxic fumes may be released.
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5.3. Advice for firefighters

Protection during firefighting	Do not attempt to take action without wearing suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

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**MAGNESIUM SULPHATE****Section 6: Accidental Release Measures****6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For Non-emergency personnel
Emergency procedures

Ventilate spillage area

6.1.2 For emergency responders
Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8, Exposure controls/personal protection.

6.2 Environmental precautions

Do not discharge into drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Other information

Mechanically recover the product
Dispose of materials or solid residues at an authorised site.

6.4. Reference to other sections

Information for safe handling. See heading 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

Section 7: Handling and Storage**7.1. Precautions for safe handling**

Precautions for safe handling

Ensure good ventilation of the workstation. Wear personal protective equipment.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Specific end use(s)
Industrial use

Section 8: Exposure controls / personal protection**8.1. Control parameters**

No additional information available

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**MAGNESIUM SULPHATE****8.2. Exposure controls**

Appropriate engineering controls

Ensure good ventilation of the workstation.

Hand Protection

Chemical resistant PVC gloves (to European standard EN 374 or equivalent).
Nitrile rubber.

Eye protection

Safety glasses.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Dust protection: dust mask with filter type P1.

Environmental exposure controls

Avoid release to the environment.

Section 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state

Solid

Appearance

Crystalline Powder.

Colour

White.

Odour

Odourless

Odour Threshold

No data available.

pH

8 (25°C; aqueous solution)

Melting point

770 °C

Initial boiling point and range

Not applicable. The sample decomposes before boiling point.

Other flammability

This product is not flammable.

Relative density

1.7 g/cm³

Solubility(ies)

342 g/l water @ 20°C Soluble in water. Soluble in the following materials:
Alcohols.

Explosive properties

No considered to be explosive.

Oxidising properties

Does not meet the criteria for classification as oxidising.

9.2. Other information

Bulk density

980 kg/m³**Section 10: Stability and reactivity****10.1. Reactivity**

Reactivity

The product is non-reactive under normal conditions of use, storage and transport

10.2. Chemical Stability

Stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerisation

No dangerous reactions known under normal conditions of use.

Will not polymerise.

**MAGNESIUM SULPHATE****10.4. Conditions to avoid**

Conditions to avoid

Non under recommended storage and handling conditions.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. Hazardous decomposition products

Hazardous decomposition products

Under normal conditions of storage use, hazardous decomposition products should not be produced.

Section 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity

Not classified (Based on available data, the classification criteria are not met).

LD50 oral rat

>2000 mg/kg

LD50 dermal rat

>2000 mg/kg

Skin corrosion/Irritation

Not classified (Based on available data, the classification criteria are not met)
pH: 8 (25°C; aqueous solution)

Germ cell mutagenicity

. Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity

Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity

Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity

Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard

Not classified (Not specifically applicable)

Section 12: Ecological information

Ecotoxicity

Not regarded as dangerous for the environment.

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**MAGNESIUM SULPHATE**12.1. Toxicity

LC50 fish 1	680 mg/l Pimephales promelas
EC50 Daphnia 1	720 mg/l

12.2. Persistence and degradability

Persistence and Degradability	No Information required.
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12.3. Bioaccumulative potential

Log Pow	Not applicable
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12.4. Mobility in soil

Ecological - soil	Not applicable
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12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects	None known.
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Section 13: Disposal considerations13.1. Waste treatment methods

Disposal methods	Dispose of the contents/container in accordance with licenced collector's sorting instructions
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Section 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not Applicable.

14.4. Packing group

Not Applicable.

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**MAGNESIUM SULPHATE**14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not Applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable.

Section 15: Regulatory information15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**EU Regulations**

No Reach annex XVII restrictions

Magnesium sulphate heptahydrate is not on the REACH Candidate List

National regulations

No additional information available

15.2. Chemical Safety Assessment

No Chemical safety assessment has been carried out.

Section 16: Other Information

General information

The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC:

- Wherever possible we use the returnable packaging and pallets. Details of these are on our Sales Contracts.
- For any non-returnable packaging the cost of disposal is at your expense, but we do not have a list of reprocessors available.
- In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customer's expense. Please ask for details with your specific requirements.
- Any products supplied in the returnable packaging is clearly marked to this effect.

Key literature references and Sources for data

European Chemicals Agency, <http://echa.europa.eu/> - REACH disseminated dossier. International Chemical Safety Card, www.inchem.org.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

4.6.2015

Revision

2

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Reviewed 13.12.21