

Snow Business Hollywood

Material Safety Data Sheet - Magnesium Sulphate

1. IDENTIFICATION

Chemical Name	Magnesium Sulphate Heptahydrate
Synonyms	Epsom Salts
Chemical Formula	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
Supplier	Snow Business, The Snow Mill, Stroud, Glos GL5 4TR United Kingdom
Emergency telephone	+44 (0) 1453 840077

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Magnesium Sulphate
CAS-No	10034-99-8
%	99.5
EINECS-NR	231-298-2
EC-No	N/A
Symbol(s)	N/A
R-phrase(s)	N/A

3. HAZARDS IDENTIFICATION

Physical and chemical hazards	Low
Environmental hazards	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Human health hazards	Low

4. FIRST AID MEASURES

Effects and Symptoms	
Ingestion	Acts as a laxative. Ingestion of sufficient quantities may lead to heart changes, flaccid paralysis and cyanosis.
Inhalation	Not applicable.
Skin contact	No observable effects.
Eye contact	Mild eye irritation may result.
Ingestion	Rinse mouth with plenty of water. Drink plenty of water. Consult a physician if necessary.
Inhalation	Not applicable.
Skin contact	Wash off immediately with soap and plenty of water.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.

5. FIRE-FIGHTING MEASURES

Flammability	Non - Flammable
Suitable extinguishing media	Water, dry powder, foam, carbon dioxide (CO ₂).
Hazardous decomposition products	Heating to dryness will produce obnoxious and toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Rubber or plastic gloves.
Environmental precautions	No special environmental precautions required.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Rinse affected area with plenty of water.

7. HANDLING AND STORAGE

Storage/Handling	No special storage conditions required.
Packaging material suitable	Polyethylene containers, paper bags.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits	Not applicable
Skin and body protection	lightweight protective clothing.
Hand protection	rubber or plastic gloves.
Eye protection	safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	crystalline
Colour	white
Molecular weight	246.68
Decomposition temperature	150°C(-6 H ₂ O),200°C(-7H ₂ O).
pH	7 (10%)
Solubility in water	71% (20°C)

10. STABILITY AND REACTIVITY

Stability	Stable.
Hazardous decomposition products	Sulphur Oxides (if heated to dryness).

11. TOXICOLOGICAL INFORMATION

Chemical Name	Magnesium Sulphate Heptahydrate
Oral	Human, Oral TDLo: 428 mg/kg.Leads to muscle weakness. Acts as a laxative.
Skin irritation	Low.
Eye irritation	Mild eye irritation.
Mutagenicity	Mutation data reported for the anhydrous salt.

12. ECOLOGICAL INFORMATION

Persistence and degradability	Not Biodegradable.
Ecotoxicity effects	No information available. Ecotoxicity believed to be low.

13. DISPOSAL CONSIDERATIONS

Methods of disposal	In accordance with local and national regulations.
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14. TRANSPORT INFORMATION

UN-No	Not applicable
IMDG Class	Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION (EC)

EC Classification (67/548/EEC-88/379/EEC)	Not applicable.
Label name	Epsom Salts.
R-phrases(s)	Not applicable.
S-phrases(s)	Not applicable.

16. OTHER INFORMATION

With water this product will soak into, and mark, porous architectural stonework, leeching out over an extended time period, the duration of which is dependant upon physical and climatic conditions.

The above information is based on current knowledge at the time of publication and is given in good faith. Snow Business implies no warranty as to the suitability of the product for any particular purpose.

The information contained in this data sheet does not constitute an assessment of workplace risks.

The reference sources used in the preparation of this data sheet includes:

The chemicals (Hazard Information and Packaging) Regulations 1993 and related ACOP's

EH 40/93 Occupational Exposure Limits 1993

Registry of Toxic Effects of Chemical Substances

The Dictionary of Substances and their Effects 1992. Richardson/Gangolli

Dangerous Properties of Industrial Materials, 8th Edn. Sax/Lewis

John Gray, Roland Hathaway, Director's