

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Magnesium sulfate, 7- hydrate

Version 1.0

Issue date: 01/01/2024

Revision date: 01/01/2024

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Magnesium sulfate, 7- hydrate
Additional identification: MAGNESIUM SULPHATE 7H₂O; Magnesium sulfate heptahydrate
Identification of the product: CAS# 10034-99-8; EC# 231-298-2
Index Number: Not available
REACH registration No.: 01-2119486789-11-XXXX

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

A component of bath salts.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Elixir Garden Supplies Ltd.
Supplier(Manufacturer): Elixir Garden Supplies Ltd.
Address: Unit1, Middlegate, White Lund Industrial Estate, Morecambe, UK, LA33BN
Contact person(E-mail): info@elixirgardens.co.uk
Telephone: +44(0)1524 741229

1.4 Emergency telephone Number:

+44(0)1524 741229

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

According to REGULATION (EC) No 1272/2008, based on available data, the classification criteria are not met:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
N/A	N/A

2.2 label elements:

Hazard Pictograms:	No pictogram is used.
Signal Word(S):	No signal word is used.
Hazard Statement:	Not applicable.
Precautionary statement:	Not applicable.
Supplemental Hazard information (EU)	Not applicable.

2.3 Other hazards:

The substance is not PBT / vPvB.

The substance is not identified as having endocrine disrupting properties.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Magnesium sulfate, 7-hydrate	01-2119486789-11- XXXX	10034-99-8	231-298-2	99%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Take out the exposed person to the fresh air, if annoyances like cough, dyspnoea go on, seek for medical care.

4.1.2 In case of skin contact:

Wash skin with warm water and soap.

4.1.3 In case of eyes contact:

Wash out the eye with plenty of clean water 15 min.

4.1.4 In case of ingestion:

Drink cc 2 dcl lukewarm water, do not induce vomiting.

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

The product is not classified as harmful to human health effect.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Not Combustible. Use extinguishing media suited to burning materials.

Unsuitable extinguishing media: Extinguishing media which shall not be used for safety reasons : CO₂, halon

5.2 Special hazards arising from the substance or mixture

The product is not classified as harmful to human health effect: SO_x, CO₂.

5.3 Special fire fighting methods and special protective actions for fire-fighters:

Avoid inhalation of decomposition gases do not stand in a wind direction. During fire extinction use suitable protective masque and during long-term extinction use oxygen respiratory apparatus. During extinction use dashed water flow, or water

fog. Assure perfect ventilation. Wear isolating self-contained breathing apparatus.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Prevent from dusting. Remove spilled product so that it would not get into contact with eyes and skin. Prevent contamination of surface and ground waters. Refer to section 8 of SDS for personal protection details.

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions: Prevent surface and underground water contamination according to valid region regulations.

6.3 Methods for Containment and Cleaning up: Rake together spilled fertilizer, immediately, brush off it and place in a clear, marked container. Do not allow mixing of fertilizer and scobs and other combustible or organic materials.

6.4 Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Avoid abnormal dust formation. Avoid fuel (e.g. petroleum, lubricants etc.) and incompatible materials (straw, wood, etc.) contamination. Avoid useless acting of air humidity to the substance. Use suitable personal protective facilities (gloves) during handling.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Keep the packed substance in original, intact and closed packing, in dry, hygienically clean, easily ventilable and confined storerooms, separately from food, drink, feedstuffs, pesticides and their packing. Keep consumer packing separate from pharmaceuticals and disinfectants.

7.3 Specific end use(s): Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear suitable protective glasses or goggles.

Hand protection: Wear suitable gloves (preferably elbow-length).

Body protection: Protective garments not normally required.

Respiratory protection:	Wear a suitable Dust Mask.
Thermal hazards:	Wear suitable protective clothing to prevent heat.
8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Crystalline or powder
Colour:	White
Odour:	Odorless
Odour threshold:	Not available
pH:	5.0-8.0 at 50 g/l
Melting point/range (°C):	Decomposition of Magnesium sulfate at 1124°C.
Boiling point/range (°C):	Not available
Flash point (°C):	Not applicable
Evaporation rate:	Not applicable
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not applicable
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C):	< 0.133 hPa at 20°C
Vapour density:	Not available
Relative Density:	1.67g/ml
Bulk density (kg/m³):	Not available
Water solubility (g/l):	246.48 g/l at 20 °C - completely soluble
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Molecular Formula:	MgSO ₄ .7H ₂ O
Molecular Weight:	246.47

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Bulk density:	0.009 kg/m ³

Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Containers should be kept dry.
10.5 Incompatible materials:	No particular Incompatibilities.
10.6 Hazardous decomposition products:	SOx, CO ₂ .

Section 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:	
Magnesium sulfate (CAS#7487-88-9):	
LD50(Oral, Rat):	> 2000 mg/kg bw
LD50(Dermal, Rabbit):	> 2000 mg/kg bw
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified
11.2 Information on other hazards	
Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties.
Other information:	Not applicable

Section 12 Ecological information

12.1 Toxicity:

Magnesium sulfate (CAS#7487-88-9):	
Acute (short-term) toxicity:	
LC50(96h, Fish):	680 mg/L
EC50(48h, Crustacea):	720 mg/L
EC50(72h, Algae/aquatic plants):	2700 mg/L
Chronic (long-term) toxicity:	
NOEC(Fish):	Not available
NOEC(Crustacea):	Not available
NOEC(Algae/aquatic plants):	Not available
12.2 Persistence and degradability:	Not available.
12.3 Bioaccumulative potential:	Not available.
12.4 Mobility in soil:	Not available.
12.5 Results of PBT and vPvB assessment:	The substance is not PBT / vPvB.
12.6 Endocrine disrupting properties:	The substance is not identified as having endocrine disrupting properties.

12.7 Other adverse effects: Not available.

12.8 Additional information Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions:

Not applicable.

16.5 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.6 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.