TRADEGE
FOREIGN TRADE COMPANY

SAFETY DATA SHEET
Magnesium Sulphate Heptahydrate

According to Regulation (EC) No 1907/2006, Annex II, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.
According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Magnesium Sulphate Heptahydrate

EU REACH registration number 01-2119486789-11-0000

CAS number 10034-99-8

EC number 600-073-4

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

Identified uses Detergent. Fertilizer. Technical use.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier
Tradege Foreign Trade Company
ADALET MAH. MANAS BLV. NO: 39 IÇ KAPI NO: 2511
Bayraklı, Izmir, Turkey
T: + 90 506 450 9208
export@tradege.com.tr
www.tradege.com.tr

Only Representative
Cambridge Environmental Assessments / ADAS UK Ltd Mr. Peter Godfrey- Peter.Godfrey@cea-res.co.uk
Battlegate Road Boxworth Cambridge CB23 4NN United Kingdom
T: +44 (0) 1954 268200

1.4. Emergency telephone number

Emergency telephone Tradege: +90 506 450 9208 (Office hours)

National emergency telephone number
UK-National Poisons Information Service (NPIS)
Email: director.birmingham.unit@npis.org
Website: http://www.npis.org/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720) and Regulation (EC) No 1272/2008

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

EC number 600-073-4

Hazard statements NC Not Classified

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current UK and EU criteria.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	Magnesium Sulphate Heptahydrate
CAS number	10034-99-8
EC number	600-073-4
Chemical formula	MgSO4 7(H2O)
Composition comments	REACH Registration had been submitted for Magnesium Sulphate Anhydrous in accordance with the REACh Regulation.

3.2. Mixtures

Description	Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

Inhalation	Upper respiratory irritation. Coughing.
Ingestion	Nausea, vomiting.
Skin contact	Mechanical irritation.
Eye contact	May cause temporary eye irritation.

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

Notes for the doctor	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Toxic gases may be formed.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.
See Section 11 for additional information on health hazards.
For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Mechanical ventilation or local exhaust ventilation may be required.

Advice on general occupational hygiene Wear a suitable dust mask. Eliminate all ignition sources if safe to do so.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep wetted with water.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

General dust (TWA-8h) : 10 mg/m3

DNEL Workers - Inhalation; Long term systemic effects: 37.6 mg/m³
Workers - Dermal; Long term systemic effects: 21.3 mg/kg bw/d

PNEC Fresh water; 0.68 mg/l
Marine water; 0.068 mg/l
Intermittent release; 6.8 mg/l

8.2. Exposure controls

Protective equipment

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Appropriate engineering controls	Provide adequate ventilation. Prevent accumulation of dust.
Personal protection	Provide eyewash station.
Eye/face protection	Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.
Hand protection	Wear protective gloves. Wear protective gloves made of the following material: Polyvinyl chloride (PVC). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Wear apron or protective clothing in case of contact.
Hygiene measures	Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Wash promptly if skin becomes contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Do not eat, drink or smoke when using this product.
Respiratory protection	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. Use approved respirator if air contamination is above an acceptable level. Combination filter, type A2/P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Crystalline powder.
Colour	White.
Odour	No characteristic odour.
pH	pH (diluted solution): 5.5-7.5
Melting point	200°C
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Vapour pressure	No specific test data are available.
Vapour density	Not applicable.
Relative density	1.68 g/cm3 @20 °C
Solubility(ies)	Soluble in water. 71 g/100g H2O @ 20°C
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	Not applicable.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Oxidising properties	There are no chemical groups present in the product that are associated with oxidising properties.
Particle characteristics	No information available.

9.2. Other information

Molecular weight	246.48

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

Conditions to avoid Keep away from moisture.

10.5. Incompatible materials

Materials to avoid Oxidising materials.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

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

Acute toxicity - oral

Notes (oral LD_{50}) Based on available data the classification criteria are not met.
LD_{50} >2000 mg/kg, Oral, Rat (OECD 425)

Acute toxicity - dermal

Notes (dermal LD_{50}) Based on available data the classification criteria are not met.
LD_{50} >2000 mg/kg, Dermal, Rat (OECD Test Guideline 402) EPA OPPTS 870.1200

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.
EU method B.46 (In Vitro Skin Irritation: Reconstructed Human Epidermis Model Test) and OECD Draft Proposal for a New Guideline: In Vitro Skin Irritation: Reconstructed Human Epidermis (RhE) Test Method Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.
OECD 405, EPA OPPTS 870.2400 (Acute Eye Irritation), EU Method B. Not irritating to the eyes.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation Based on available data the classification criteria are not met.
OECD 429, Local lymph node assay, EU Method B.42 (Skin Sensitisation: Local Lymph Node Assay), EPA OPPTS 870.2600 (Skin Sensitisation). Not sensitising.

Skin sensitisation

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Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met. In vitro mammalian cell gene mutation test., Mouse lymphoma cells.: Negative. Bacterial reverse mutation test, (OECD 471): Negative.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met. NOAEL 284 mg/kg bw/d, Oral, Rat, Female. 52 week NOAEL 256 mg/kg bw/d, Oral, Rat, Male. (Fischer 344)
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.

Reproductive toxicity

Summary	NOAEL ≥1500 mg/kg bw/d, Oral, Rat
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard	Not relevant.

Inhalation	Dust may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Mechanical irritation.
Eye contact	Particles in the eyes may cause irritation and smarting.
Chronic toxicity	NOAEL 256 mg/kg bw/d, Oral, Rat

11.2. Information on other hazards

Information on other hazards	This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hour: 680 mg/l, Pimephales promelas (Fat-head Minnow) Potassium Sulfate (US-EPA)

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Acute toxicity - aquatic invertebrates	LC_{50}, 48 hour: 720 mg/l, Daphnia magna (US-EPA)

12.2. Persistence and degradability

Persistence and degradability	Substance is inorganic. Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential	No information available.

12.4. Mobility in soil

Mobility	The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current UK and EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	The product does not contain any endocrine disrupting substance.

12.7. Other adverse effects

Other adverse effects	No information required.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods	Reuse or recycle products wherever possible. Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

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14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Maritime transport in bulk according to IMO instruments	Not applicable.

SECTION 15: Regulatory information

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

EU legislation	Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40.
Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV	No specific authorisations are known for this product.
Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII	No specific restrictions on use are known for this product.
Seveso Directive - Control of major accident hazards	Not applicable.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. Kow: Octanol-water partition coefficient. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Key literature references and sources for data	Source: European Chemicals Agency, http://echa.europa.eu/ Information and documents obtained from the owner company of product.
Revision comments	SDS has been revised under the current regulations.

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