

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name: MAGNESIUM SULPHATE HEPTAHYDRATE

CAS No.: 10034-99-8

EC No.: 231-298-2

Index No.: No data available

REACH No.: No data available

Proper shipping name: No data available

Other means of identification: No data available

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

Relevant identified uses: Used in weighting cotton and silk; increasing the bleaching action of chlorinated lime; manufacture of mother-of-pearl and frosted papers; fire-proofing fabrics; dyeing and printing calicos; in fertilisers. Used in explosives, matches, mineral water, tanning leather and dietary supplements.

Uses advised against: No data available

1.3. Details of the supplier of the safety data sheet

Registered

company name: TwinsBridge International

Address: 15 Engle Street, Suite 104
Englewood NJ 07631 USA

Telephone: 201-408-5825

1.4. Emergency telephone number

Emergency telephone number: +914423743841

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Classification

Not classified as hazardous according to CLP.
Not considered a dangerous substance.

DSD Classification

Not classified as hazardous according to DSD

2.2. Label elements

CLP label

Not applicable

DPD Label

Not applicable

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

| Hazardous ingredients | CAS No. | EC No. | Index No. | REACH No. | % wt/wt |
|------------------------------------|----------------|---------------|------------------|------------------|----------------|
| magnesium sulfate, heptahydrate | 10034-99-8 | 231-298-2 | - | - | >95 |

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

Skin contact: Immediately wash with plenty of soap and water. Get medical attention if irritation occurs.

Eye contact: Immediately flush eyes with running water for at least 20 minutes holding eyelids open. Get medical attention.

Ingestion: Do not induce vomiting. Give 1-2 glasses of water to a conscious victim. Never give anything by mouth to an unconscious victim. Get medical attention.

Advice for the doctor: Symptomatic treatment

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

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substance or mixture

Fire/explosion hazard: Not considered a significant fire risk.

Main combustion gas: sulfur oxides (SO_x), metal oxides.

5.3. Advice for firefighters

Wear breathing apparatus plus protective gloves for fire only.

Prevent, by any means available, spillage from entering drains or water courses.

Use fire fighting procedures suitable for surrounding area.

DO NOT approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected location.

If safe to do so, remove containers from path of fire.

Equipment should be thoroughly decontaminated after use.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wearing of suitable protective equipment, removal of ignition sources and provision of sufficient ventilation, evacuate the danger area and consult experts.

6.2. Environmental precautions

Take precautions to prevent entry into waterways, sewers, or surface drainage systems. Disposal according to local or international regulations.

6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled solid in suitable container for recovery or disposal, avoid raising dust.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the MSDS

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid ingestion, inhalation, skin and eye contact. Minimize dust generation and accumulation. Handle in accordance with good industrial hygiene practice and any legal requirements.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container: Glass container is suitable for laboratory quantities. Polyethylene or polypropylene container. Check all containers are clearly labelled and free from leaks.

Storage incompatibility: Metals and their oxides or salts may react violently with chlorine trifluoride and bromine trifluoride.

Storage: Store in a cool, dry area protected from environmental extremes, Keep containers securely sealed.

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

At this time no TLV has been established, even though this material may produce adverse health effects (as evidenced in animal experiments or clinical experience). Airborne concentrations must be maintained as low as is practically possible and occupational exposure must be kept to a minimum.

8.2. Exposure controls

Appropriate engineering controls Use: process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

General Personal Protection: Goggles, gloves, protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Colorless solid |
| Odour | Almost odourless |
| Odour threshold | No data available |
| pH | 7 ± 0.5 (1 % solution) |
| Melting point / freezing point | 150 °C |
| Initial boiling point and boiling range | 200 °C |
| Flash point | Not applicable |
| Evaporation rate | Not applicable |
| Flammability (solid, gas) | No data available |
| Upper / lower flammability or exposure limits | No data available |
| Vapour pressure | Not applicable |
| Vapour density | Not applicable |
| Relative density | No data available |
| Solubility(ies) | 70 g / 100 cc (20 °C), 91 g / 100 cc (40 °C) |
| Partition coefficient: n-octanol / water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | Not applicable |
| Explosive properties | No data available |
| Oxidising properties | No data available |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 7.2

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

See section 7.2

10.4. Conditions to avoid

strong acids, alkalis, and oxidizing agents

10.5. Incompatible materials

See section 7.2

10.6. Hazardous decomposition products

Thermal decomposition products - sulfur oxides (SO_x), metal oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|---------------------------------|---|
| Acute toxicity: | TDLo (man, oral): 183 mg/kg/4h-l LDLo (mouse, oral): 5000 mg/kg bw |
| Corrosive/ irritation: | Skin: Not irritating Eye: Not irritating |
| Respiratory/skin sensitization: | Respiratory: No data available Skin: Not sensitizing |
| Repeated dose toxicity: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | No data available, Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. |
| Reproductive toxicity: | No data available |
| Aspiration hazard: | No data available |
| Additional information: | No data available |

SECTION 12: Ecological information

12.1. Toxicity

Fish LC50 (Gambusia affinis, 24 hours): 15500 mg/l

Crustacea EC50 (Daphnia magna): 1700 mg/l

Algae EC50 (Scenedesmus subspicatus): 2700 mg/l

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: Observe specific national regulation.

Contaminated packaging: Contaminated, empty containers must be disposed of as chemical waste.

SECTION 14: Transport information

Domestic transport (RID/ADR): free

Sea transport (IMDG): free

Air transport (ICAO/IATA): free

SECTION 15: Regulatory information

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

Classification and labeling according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use:

Labelling in accordance with EC directives: No symbol required.

Risk phrases: Not classified

Safety phrases:

S02: Keep out of the reach of children.

S03/07: Keep container tightly closed in a cool place.

S08: Keep container dry.

Classification and labeling according to EU Regulation (EC) 1272/2008 (CLP Regulation) and Globally Harmonized System (GHS):

Signal Word: Not required

Hazards Statements: Not classified

Precautionary Statements

P102: Keep out of reach of children.

P233: Keep container tightly closed.

P235: Keep cool.

National Paint & Coating Hazardous Materials Identification System – HMIS (R):

1 Health Hazard Rating -Slight

0 Flammability Rating - Minimal

0 Instability Rating - Minimal
A Personal Protection

This safety data sheet is in compliance with the following EU legislation and its adaptations – as far as applicable - : 67/548/EEC, 1999/45/EC, 76/769/EEC, 98/24/EC, 92/85/EEC, 94/33/EC, 91/689/EEC, 1999/13/EC, 1907/2006, 1272/2008.

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

Full text of R-phrases referred to in sections 2 and 3: N/A

Full text of Hazards Statements referred to in sections 2 and 3: N/A

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined

N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

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