

**MATERIAL SAFETY DATA SHEET****Product Name:** Magnesium sulphate heptahydrate**CAS No.:** 10034-99-8**Version:** 0**1. Identification**

**Product Code** : 90181, 90449  
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**2. Composition/Information on Ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
MAGNESIUM SULPHATE HEPTAHYDRATE	10034-99-8	99-100 %

**3. Hazards Identification****Hazard classification****Labels elements**

**Hazard symbol** : No symbol  
**Signal word** : No signal word.  
**Hazard statement** : Not Applicable.  
**Precautionary statement** : Not Applicable.  
**Other hazards which do not result in GHS classification** : None.

**4. First Aid Measures**

**General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.

**Ingestion** : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

**Inhalation** : Move to fresh air. Get medical attention if symptoms occur.

**Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

**Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if

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- Most important symptoms/effects, acute and delayed** : symptoms occur.  
: May cause irritation to skin, eyes, and respiratory tract.
- Indication of immediate medical attention and special treatment needed** : Treat symptomatically. Symptoms may be delayed.

**5. Fire fighting measures**

- General fire hazards** : No data available.
- Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media** : The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.
- Unsuitable extinguishing media** : None known.
- Specific hazards arising from the chemical** : None known .
- Special protective equipment and precautions for firefighters**
- Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
- Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental Release Measures**

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**MATERIAL SAFETY DATA SHEET****Product Name:** Magnesium sulphate heptahydrate**CAS No.:** 10034-99-8**Version:** 0**7. Handling and Storage**

- Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in a well-ventilated place.

**8. Exposure Controls Personal Protection****Control parameters**

**Occupational exposure limits** : None of the components have assigned exposure limits

**Appropriate engineering controls** : No data available.

**Individual protection measures, such as personal protective equipment**

**General information** : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection** : Wear safety glasses with side shields (or goggles). Use tight fitting goggles if dust is generated.

**Hand protection** : Chemical resistant gloves.

**Other** : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator. Air-purifying respirator with a high efficiency particulate filter.

**Hygiene measures** : Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes, skin, and clothing.

**9. Physical and Chemical Properties**

**Appearance** : Colorless to White Solid Crystalline Powder.

**Odor** : Odorless

**pH** : No data available.

**Melting point/freezing point** : No data available

**Initial boiling point and boiling range** : No data available

**Flash Point** : Not applicable

**Vapor pressure** : No data available

**Vapor density** : No data available

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**Relative density** : 1.67 (20 °C)  
**Solubility in water** : Soluble  
**Solubility (other)** : No data available.  
**Formula** : H<sub>2</sub>O<sub>4</sub>S.7H<sub>2</sub>O.Mg  
**Molecular Weight** : 246.47 g/mol

**10. Stability and Reactivity**

**Reactivity** : No dangerous reaction known under conditions of normal use.  
**Chemical stability** : Material is stable under normal conditions.  
**Possibility of hazardous reactions** : Hazardous polymerization does not occur.  
**Conditions to avoid** : Contact with incompatible materials.  
**Incompatible materials** : Strong oxidizing agents.  
**Hazardous decomposition products** : Oxides of sulfur. Oxides of magnesium.

**11. Toxicological Information****Information on likely routes of exposure**

**Ingestion** : May cause irritation of the gastrointestinal tract.  
**Inhalation** : May cause irritation to the respiratory system.  
**Skin contact** : May cause irritation. May cause an allergic skin reaction.  
**Eye contact** : May irritate eyes.

**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

**Oral Product** : No data available.  
**Dermal Product** : No data available  
**Inhalation Product** : No data available  
**Repeated dose toxicity Product** : No data available.  
**Skin corrosion/irritation Product** : May cause skin irritation.  
**Serious eye damage/eye irritation Product** : May irritate eyes.  
**Respiratory or skin sensitization Product** : Not a skin sensitizer.  
**Carcinogenicity Product** : This substance has no evidence of carcinogenic properties.  
**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE** : No carcinogenic components identified.  
**US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE** : No carcinogenic components identified.

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<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	:	No carcinogenic components identified.
<b>Germ cell mutagenicity</b>	:	
<b>In vitro Product</b>	:	No mutagenic components identified.
<b>In vivo Product</b>	:	No mutagenic components identified.
<b>Reproductive toxicity Product</b>	:	No components toxic to reproduction.
<b>Specific target organ toxicity - single exposure Product</b>	:	No data available.
<b>Specific target organ toxicity - repeated exposure Product</b>	:	No data available.
<b>Aspiration hazard Product</b>	:	Not classified.
<b>Other effects</b>	:	None known.

**12. Ecological Information****Ecotoxicity****Acute hazards to the aquatic environment :****Fish Product** : LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2,610 mg/l**Aquatic invertebrates Product** : No data available**Chronic hazards to the aquatic environment :****Fish Product** : No data available.**Aquatic invertebrates Product** : No data available.**Toxicity to Aquatic Plants Product:** : No data available.**Persistence and degradability****Biodegradation Product** : The product is not readily biodegradable.**BOD/COD ratio Product** : No data available.**Bioaccumulative potential****Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.**Product****Partition coefficient n-octanol / water (log Kow) Product** : No data available.**Mobility in soil****Mobility in soil** : The product is water soluble and may spread in water systems.**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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### 13. Disposal consideration

- Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>			Not regulated.		
<b>IMDG</b>			Not regulated.		
<b>IATA</b>			Not regulated.		

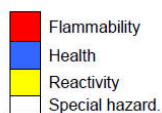
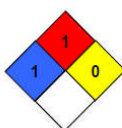
### 15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

### 16. Other Information

#### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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