



Magnesium Sulfate, Lab Grade

Identification:		
CAS 10034-99-8	Magnesium sulfate heptahydrate	100 %
Percentages are by weight		

SECTION 4: First Aid

Decontamination:
A: Move exposed individual to fresh air. Seek medical advice if discomfort or irritation persists.
A: Wash affected area with soap and water. Rinse thoroughly.
A: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes.
A: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Medical Information:
Irritation.
If seeking medical attention, provide SDS document to physician.

SECTION 5: Fire and Explosion

Extinguishing Media:
S: If in laboratory setting, follow laboratory fire suppression procedures.
U: None

Stability and Reactivity:
S: Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Accidental Release:
P: Use NIOSH-approved hazard assessment...

recovery or disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Respiratory hazard: None

SECTION 7: Hazards and identification

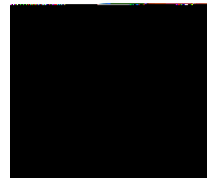
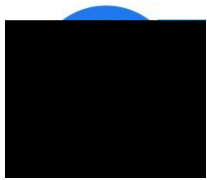
Precautionary statements:

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Do not eat, drink, smoke, or use personal products when handling chemical substances. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

Storage and handling information:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed.

SECTION 8: Exposure controls and personal protection



Control measures:

10034-99-8, Nuisance dust, ACGIH TLV TWA:10mg/m3 (inhalable particles).

10034-99-8, Nuisance dust, OSHA PEL TWA: 15 mg/m3 (total dust).

Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. For spills, respiratory protection may be advisable. Use suitable respiratory protective device when dust and particulates are formed.

Personal protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection:

Safety glasses with side shields or goggles.

General safety and health information:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9: Physical and chemical properties

Material Safety Data Sheet, Lab Grade

Appearance (color, odor, etc.):	colorless solid	Exposure limits: Exposure limits:	Not Determined Not Determined
Odor:	Odorless	Vapor pressure at 20 °C:	< 0.133 hPa (< 0.100 mmHg) at 20 °C (68 °F)
Odor irritation:	Not Determined	Vapor irritation:	Not Determined
pH-value:	5 - 8.2 (5% aq.sol.)	Relative density:	1.67 g/cm3
Miscellaneous information:	Not Determined	Solubility:	Soluble in Water.
Boiling point/Boiling point:	Not Determined	Particle size distribution (D ₅₀ /D ₉₀):	Not Determined
Flash point (closed cup):	Not Determined	Auto-ignition temperature: Flash point:	Not Determined
Elementary composition:	Not Determined	Decomposition temperature: Flash point:	150°C
Flash point (open cup, closed cup):	Not Determined	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density at 20 °C:	Not Determined		

SECTION 10: Stability and reactivity

Reactivity:
Nonreactive under normal conditions.

Decomposition:
No decomposition if used and stored according to specifications.

Polymerization: None

Incompatible materials:
Incompatible Materials. Dust generation. excess heat.

Oxidizing agents:
Strong oxidizing agents. Strong acids. Strong Bases.

Hazardous decomposition products:
Sulphur oxides, Magnesium oxide.

SECTION 11: Toxicological information

Acute Toxicity: No additional information.

Chronic Toxicity: No additional information.

Reproductive toxicity: No additional information.

Sensitization: No additional information.

Neurotoxicity: No additional information.

Carcinogenicity: No additional information.

Mutagenicity: No additional information.

Reproductive toxicity: No additional information.

SECTION 12: Ecotoxicological information

Ecotoxicity: No additional information.

Biodegradability:
Readily degradable in the environment.

Bioaccumulation: No additional information.

Manufacturer, Lab Grade

Additional information: No additional information.
Additional information: No additional information.

SECTION 13: Disposal information

Waste information:
Product/containers must not be incinerated

Material Safety Data Sheet, Label

Component 1:

None of the ingredients are listed.

Component 2:

None of the ingredients are listed.

Component 3:

None of the ingredients are listed.

Component 4:

None of the ingredients are listed.

Component 5

Component 5a: Dermal Sensitization (DSL):

All ingredients are listed.

Component 5a: NPRI Inhalation Dose (0.1%):

None of the ingredients are listed.

Component 5a: NPRI Inhalation Dose (1%):

None of the ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Hazard Pictograms: None

Abbreviations:

- IMDG International Maritime Code for Dangerous Goods.
- PNEC Predicted No-Effect Concentration (REACH).
- CFR Code of Federal Regulations (USA).
- SARA Superfund Amendments and Reauthorization Act (USA).
- RCRA Resource Conservation and Recovery Act (USA).
- TSCA Toxic Substances Control Act (USA).

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