



GARDENA, CA
NEW BRUNSWICK, NJ

Material Safety Data Sheet

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|-----------------|---|-------------------------------|---|-----------------|---|------------|---|--|
| NFPA | HMIS | Personal Protective Equipment | | | | | | |
| | <table border="1"> <tr> <td>Health Hazard</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Physical Hazard</td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td style="text-align: center;">0</td> </tr> </table> | Health Hazard | 1 | Physical Hazard | 0 | Reactivity | 0 | |
| Health Hazard | 1 | | | | | | | |
| Physical Hazard | 0 | | | | | | | |
| Reactivity | 0 | | | | | | | |
| | | See Section 15. | | | | | | |

| | | |
|---|---|--|
| Section 1. Chemical Product and Company Identification | | <i>Page Number: 1</i> |
| Common Name/ Trade Name | Magnesium sulfate heptahydrate | |
| Manufacturer | ProChem, Inc. 826 Roosevelt Rd Rockford, IL 61109 | CAS# 10034-99-8 |
| Commercial Name(s) | Not available. | RTECS OM4508000 |
| Synonym | Not available. | TSCA TSCA 8(b) inventory: Magnesium sulfate heptahydrate |
| Chemical Name | | CI# Not available. |
| Chemical Family | Not available. | IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL 815-398-1788 |
| Chemical Formula | MgSO4.7H2O | |
| Supplier | | |

| | | | | | |
|--|------------|--------------------------|---------------------------|---------------------------|-------------|
| Section 2. Composition and Information on Ingredients | | | | | |
| | | <i>Exposure Limits</i> | | | |
| Name | CAS # | TWA (mg/m ³) | STEL (mg/m ³) | CEIL (mg/m ³) | % by Weight |
| 1) Magnesium sulfate heptahydrate | 10034-99-8 | | | | 100 |
| Toxicological Data on Ingredients | | Not applicable. | | | |

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|--|---|
| Section 3. Hazards Identification | |
| Potential Acute Health Effects | Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. |
| Potential Chronic Health Effects | CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition. |

Section 4. First Aid Measures

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| Eye Contact | Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. |
| Skin Contact | After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. |
| Serious Skin Contact | Not available. |
| Inhalation | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| Serious Inhalation | Not available. |
| Ingestion | Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. |
| Serious Ingestion | Not available. |

Section 5. Fire and Explosion Data

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|---|---|
| Flammability of the Product | Non-flammable. |
| Auto-Ignition Temperature | Not applicable. |
| Flash Points | Not applicable. |
| Flammable Limits | Not applicable. |
| Products of Combustion | Not available. |
| Fire Hazards in Presence of Various Substances | Not applicable. |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. |
| Fire Fighting Media and Instructions | Not applicable. |
| Special Remarks on Fire Hazards | Not available. |
| Special Remarks on Explosion Hazards | Not available. |

Section 6. Accidental Release Measures

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| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| Large Spill | Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. |

Section 7. Handling and Storage

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|-------------|---|
| Precautions | No specific safety phrase has been found applicable for this product. |
| Storage | No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded. |

Section 8. Exposure Controls/Personal Protection

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|--|---|
| Engineering Controls | Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. |
| Personal Protection | Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. |
| Personal Protection in Case of a Large Spill | Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. |
| Exposure Limits | Not available. |

Section 9. Physical and Chemical Properties

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|-------------------------------|-------------------------------|-------|----------------|
| Physical state and appearance | Solid. | Odor | Not available. |
| Molecular Weight | 246.46 g/mole | Taste | Not available. |
| pH (1% soln/water) | Not available. | Color | Not available. |
| Boiling Point | Not available. | | |
| Melting Point | Decomposes. | | |
| Critical Temperature | Not available. | | |
| Specific Gravity | 1.67 (Water = 1) | | |
| Vapor Pressure | Not applicable. | | |
| Vapor Density | Not available. | | |
| Volatility | Not available. | | |
| Odor Threshold | Not available. | | |
| Water/Oil Dist. Coeff. | Not available. | | |
| Ionicity (in Water) | Not available. | | |
| Dispersion Properties | See solubility in water. | | |
| Solubility | Easily soluble in cold water. | | |

Section 10. Stability and Reactivity Data

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|---|-------------------------------------|
| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Not available. |
| Incompatibility with various substances | Not available. |
| Corrosivity | Non-corrosive in presence of glass. |

Magnesium sulfate heptahydrate

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Special Remarks on
Reactivity

Not available.

Special Remarks on
Corrosivity

Not available.

Polymerization

No.

Section 11. Toxicological Information

Routes of Entry

Ingestion.

Toxicity to Animals

LD50: Not available.
LC50: Not available.

Chronic Effects on Humans

Not available.

Other Toxic Effects on
Humans

Hazardous in case of ingestion.
Slightly hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on
Toxicity to Animals

Not available.

Special Remarks on
Chronic Effects on Humans

Passes through the placental barrier in human.

Special Remarks on other
Toxic Effects on Humans

Not available.

Section 12. Ecological Information

Ecotoxicity

Not available.

BOD5 and COD

Not available.

Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products
of Biodegradation

The products of degradation are more toxic.

Special Remarks on the
Products of Biodegradation

Not available.

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

DOT Classification

Not a DOT controlled material (United States).

Identification

Not applicable.

Special Provisions for
Transport

Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: Magnesium sulfate heptahydrate

California Proposition 65 Warnings

Other Regulations Not available..

Other Classifications WHMIS (Canada) Not controlled under WHMIS (Canada).

DSCL (EEC) This product is not classified according to the EU regulations.

HMIS (U.S.A.)

| | |
|---------------------|---|
| Health Hazard | 1 |
| Physical Hazard | 0 |
| Reactivity | 0 |
| Personal Protection | E |

National Fire Protection Association (U.S.A.)

Health



Flammability

Reactivity

Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

Section 16. Other Information

References Not available.

Other Special Considerations Not available.

PREPARATION DATE: NOV 2005

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, ProChem Chemicals^{Inc.} assumes no responsibility for the completeness or accuracy of the information contained herein.