



Safety Data Sheet

Magnesium Chloride, Hexahydrate, Crystal, ACS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Magnesium Chloride, Hexahydrate, Crystal, ACS

Synonyms/Generic Names: Agar-Agar, Gum agar

Product Number: CP-A1638D, CP-M1638D, 3175

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: ChemPure Brand Chemical
39103 Warren Road
Westland, MI 48185

For More Information Call: 734-729-1805 (Monday-Friday 8:00-4:30)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Target organ effect

Target Organs: Central nervous system, Kidney, Gastrointestinal tract

Signal Words: None

Pictograms: None

GHS Classification:

| | |
|--|--|
| Not a dangerous substance according to GHS | |
|--|--|

GHS Label Elements, including precautionary statements:

Hazard Statements:

| | |
|------|--|
| None | |
|------|--|

Precautionary Statements:

| | |
|------|--|
| None | |
|------|--|

Potential Health Effects

| | |
|-------------------|--|
| Eyes | May cause eye irritation. |
| Inhalation | May be harmful if inhaled. May cause respiratory tract irritation. |
| Skin | May cause skin irritation. May be harmful if absorbed through skin. |
| Ingestion | May be harmful if swallowed. Repeated ingestion of small amounts may be harmful. |

NFPA Ratings

| | |
|---------------|---|
| Health | 1 |
|---------------|---|

HMIS Ratings

| | |
|---------------|---|
| Health | 1 |
|---------------|---|

| | |
|------------------------|---------------|
| Flammability | 0 |
| Reactivity | 0 |
| Specific hazard | Not Available |

| | |
|-------------------|---|
| Fire | 0 |
| Reactivity | 0 |
| Personal | A |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | Weight % | CAS # | EINECS# / ELINCS# | Formula | Molecular Weight |
|---------------------------------|----------|-----------|-------------------|--------------------------------------|------------------|
| Magnesium Chloride, Hexahydrate | 100 | 7791-18-6 | 232-094-6 | MgCl ₂ ·6H ₂ O | 203.30 g/mol |

4. FIRST-AID MEASURES

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|-------------------|---|
| Eyes | Rinse with plenty of water for at least 15 minutes and seek medical attention if necessary |
| Inhalation | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary. |
| Skin | Wash off with soap and plenty of water. Get medical attention if necessary. |
| Ingestion | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary. |

5. FIREFIGHTING MEASURES

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| Suitable (and unsuitable) extinguishing media | Product is not flammable. Use appropriate media for adjacent fire. Use flooding quantities of water to cool containers. |
| Special protective equipment and precautions for firefighters | Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. |
| Specific hazards arising from the chemical | Emits toxic fumes (hydrogen chloride gas, magnesium oxides) under fire conditions. (See also Stability and Reactivity section) |

6. ACCIDENTAL RELEASE MEASURES

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| Personal precautions, protective equipment and emergency procedures | See section 8 for recommendations on the use of personal protective equipment. |
| Environmental precautions | Prevent spillage from entering drains. Any release to the environment may be subject to a federal/national or local reporting requirements. |
| Methods and materials for containment and cleaning up | Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations. |

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Protect against physical damage. Isolate from oxidizing materials. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values.

Personal Protection

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|-------------------|---|
| Eyes | Wear chemical safety glasses or goggles. |
| Inhalation | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. |
| Skin | Wear neoprene or nitrile gloves, and protective clothing appropriate to the risk of exposure. |
| Other | Not Available |

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--------------------------------------|
| Appearance (physical state, color, etc.) | Colorless flakes or crystals. Solid. |
| Odor | No odor, |
| Odor threshold | Not Available |
| pH | Not Available |
| Melting point/freezing point | Not Available |
| Initial boiling point and boiling range | Not Available |
| Flash point | Not Flammable |
| Evaporation rate | Not Available |
| Flammability (solid, gas) | Not Flammable |
| Upper/lower flammability or explosive limit | Not Explosive |
| Vapor pressure | Not Available |
| Vapor density | Not Available |
| Relative density | Not Available |
| Solubility (ies) | Completely soluble in water. |
| Partition coefficient: n-octanol/water | Not Available |
| Auto-ignition temperature | Not Available |
| Decomposition temperature | Not Available |

10. STABILITY AND REACTIVITY

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|---|--|
| Chemical Stability | Stable |
| Possibility of Hazardous Reactions | Will not occur. |
| Conditions to Avoid | Moisture |
| Incompatible Materials | Strong oxidizers. |
| Hazardous Decomposition Products | Hydrogen chloride gas, magnesium oxides. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| | |
|--------------------|-----------------------------|
| Skin | Not Available |
| Eyes | Not Available |
| Respiratory | Not Available |
| Ingestion | LD50 Oral- rat- 8,100 mg/kg |

Carcinogenicity

| | |
|--------------|--|
| IARC | No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| ACGIH | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| NTP | No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |
| OSHA | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |

Signs & Symptoms of Exposure

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|--------------------|---|
| Skin | Redness, irritation, itching and pain. |
| Eyes | Eye burns, pain, watering eyes. |
| Respiratory | Coughing, shortness of breath, choking, wheezing, laryngitis, headache or nausea. |
| Ingestion | Nausea, vomiting, pain |

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|---------------------------------------|---------------|
| Chronic Toxicity | Not Available |
| Teratogenicity | Not Available |
| Mutagenicity | Not Available |
| Embryotoxicity | Not Available |
| Specific Target Organ Toxicity | Not Available |
| Reproductive Toxicity | Not Available |
| Respiratory/Skin Sensitization | Not Available |

12. ECOLOGICAL INFORMATION

Ecotoxicity

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|-----------------------------|---------------|
| Aquatic Vertebrate | Not Available |
| Aquatic Invertebrate | Not Available |
| Terrestrial | Not Available |

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|--------------------------------------|---------------|
| Persistence and Degradability | Not Available |
| Bioaccumulative Potential | Not Available |
| Mobility in Soil | Not Available |

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|--------------------------------|---------------|
| PBT and vPvB Assessment | Not Available |
| Other Adverse Effects | Not Available |

13. DISPOSAL CONSIDERATIONS

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|---------------------------|--|
| Waste Residues | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container or residues. |
| Product Containers | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container. |

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

| | |
|------------------|---------------------|
| US DOT | Not Dangerous Goods |
| TDG | Not Dangerous Goods |
| IMDG | Not Dangerous Goods |
| Marine Pollutant | No |
| IATA/ICAO | Not Dangerous Goods |

15. REGULATORY INFORMATION

| | |
|---------------------------|---|
| TSCA Inventory Status | All ingredients are listed on the TSCA inventory. |
| DSCL (EEC) | All ingredients are listed on the DSCL inventory. |
| California Proposition 65 | Not Listed |
| SARA 302 | Not Listed |
| SARA 304 | Not Listed |
| SARA 311 | No SARA Hazards |
| SARA 312 | No SARA Hazards |
| SARA 313 | Not Listed |
| WHMIS Canada | Not Listed |

16. OTHER INFORMATION

| Revision | Date |
|------------|------------|
| Revision 1 | 08-10-2011 |
| Revision 2 | 08/15/2013 |
| Revision 3 | 11/05/2021 |
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