SAFETY DATA SHEET

Section 1. Identification

Product Name: Magnesium bromide, anhydrous
Product Type: Solid
CAS Number: 7789-48-2.
Product Number: MG9482
Product Manufacturer: Ereztech LLC
11555 Medlock Bridge Road, Suite 100
Johns Creek, GA  30097
Product Information: (888) 658-1221
In case of an emergency: (888) 658-1221 (for spill, leak, fire or exposure)
*** Contact manufacturer for all non-emergency calls.

Section 2. Hazards Identification

Emergency Overview
Appearance/ Odor: Off-white powder, odor not determined.
Classification: SKIN CORROSION/IRRITATION; - Category 2, H315
SERIOUS EYE DAMAGE/IRRITATION; - Category 2A, H319
SPECIFIC ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION; - Category 3, H335
Signal word: WARNING
Hazard statements: H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
Hazard pictograms:

Precautionary statements
P264: Wash exposed skin thoroughly after handling.
P271: Use only outdoors or in a well ventilated area.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
Section 2. Hazards Identification

**Response:**
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P337 + P313: If eye irritation persists: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.

**Storage:**
- P403 + P233: Store in a well ventilated place. Keep container tightly closed.
- P405: Store locked up.

**Disposal:**
- P501: Dispose of contents/container to an approved waste disposal plant.

**GHS label elements**

**General:**
None.

**OSHA/HCS status:**
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Hazards not otherwise classified:**
None known.

Section 3. Composition/Information on Ingredients

**Substances**

**Synonyms:** Magnesium dibromide.

**Formula:** MgBr₂

**Molecular weight:** 184.11

**CAS-No.** 7789-48-2

**EC-No.** 232-170-9

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<th>Ingredient Name</th>
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<td>Magnesium bromide, anhydrous</td>
<td>&gt;98</td>
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</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.
**Section 4. First Aid Measures**

**Description of Necessary First Aid Measures**

**General Advice:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue rinsing.

**Skin Contact:** Wash off contaminated skin with soap and plenty of water. Get medical attention if irritation develops and persists.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Ingestion:** Rinse mouth. Remove dentures if any. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Most Important Symptoms/Effects, Acute And Delayed Potential Acute Health Effects**

**Eye Contact:** Symptoms may include stinging, tearing, and redness.

**Inhalation:** May cause irritation of respiratory system. Symptoms may include coughing and phlegm production. May cause Central Nervous System (CNS) depression.

**Skin Contact:** May produce irritation. Symptoms may include redness and itching.

**Ingestion:** May produce stomach irregularities, nausea, vomiting. May cause Central Nervous System (CNS) depression.

**Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary**

**Notes to Physician:** Treat symptomatically.

**Specific Treatments:** No specific treatment.

**Protection of First Responders:** No action taken shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

**Section 5. Fire Fighting Measures**

**General Hazards:** No data available.

**Suitable Extinguishing Media:** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO₂).

**Unsuitable Extinguishing Media:** No data available.
**Section 5. Fire Fighting Measures**

**Unusual Fire and Explosion Hazards:**
No data available.

**Product of Combustion:**
Decomposition products may include hydrogen bromide gas and magnesium oxide.

**Protection of Firefighters:**
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

**For Non-emergency Personnel:**
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid dust formation. Avoid inhalation of vapors, mists or gas. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

**For Emergency Responders:**
If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental Precautions:**
Do not allow dispersal of spilled material and contact with waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways or air).

**Methods for Containment**

**Small Spill:**
Contain and collect spillage with a mechanical device and place in an appropriate waste disposal container. Minimize dust production during collection. Dispose of via a licensed waste disposal contractor. Clean contaminated surface thoroughly.

**Large Spill:**
Contain and collect spillage with a mechanical device (dust pan, shovel) and place in dry container for disposal according to local regulations (see Section 13). Minimize dust production during the collection process. Dispose of via a licensed waste disposal contractor. Clean contaminated surface thoroughly.
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Section 7. Handling and Storage

Precautions: Product is strongly deliquescent. Handle under an inert gas. Avoid dust formation. Avoid inhalation of dust from this material. In case of insufficient ventilation, wear suitable respiratory equipment. Guard against dust accumulation of this material. Provide appropriate exhaust ventilation in areas where dust is formed. Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Protective Measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Safe Storage Conditions: Product is strongly deliquescent. Store in original container, protected from direct sunlight and in a dry, cool and well-ventilated area. Once opened, store under an inert gas. Store away from incompatible materials (strong oxidizing agents, water/moisture) and food and drink. Keep container tightly closed and sealed until ready for use. Store locked up.

Section 8. Exposure Controls/Personal Protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should be handled in accordance with Section 13.

Occupational Exposure Limits: No exposure limits noted for this material.

Engineering Controls: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Provide an eyewash/shower station.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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Environmental Exposure Controls (cont.):
In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures:
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale dusts produced by product. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation’s location.

Eye/Face Protection:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

Skin Protection

Hand Protection:
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Neoprene or Nitrile rubber.
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Section 8. Exposure Controls/Personal Protection

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Physical State: Solid, crystals.
Color: Off-white.
Odor: Not determined.
Odor Threshold: No data available.
pH: No data available.
Melting Point: 711 °C (1,312 °F).
Boiling Point: No data available.
Flash Point: No data available.
Auto-ignition temperature: No data available.
Relative Density: 3.72 gm/L @ 25 °C (77 °F).
Vapor Pressure: No data available.
Vapor Density: No data available.
Water Solubility: Soluble.
Evaporation Rate: No data available.
Viscosity: No data available.
VOC Content: No data available.

VOCs are calculated following the requirements under 40 CFR, Part 59, Subpart C for Consumer Products and Subpart D for Architectural Coatings.

Section 10. Stability and Reactivity

Reactivity: No data available.
Chemical Stability: Product is strongly deliquescent. Store and handle under an inert gas. Stable at normal ambient temperature and pressure and under recommended storage conditions.

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Section 10. Stability and Reactivity

Conditions to Avoid: Avoid generation and spread of dust.
Incompatible Materials: Moisture, water, strong oxidizing agents.
Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products formed under fire conditions: hydrogen bromide gas and magnesium oxide. In the event of a fire: see section 5.
Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity: No specific data available.
Irritation/Corrosion: Causes skin irritation. Causes serious eye irritation.
Sensitization: No specific data available.
Germ Cell Mutagenicity: No effects known.
Carcinogenity
- IARC: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
- OSHA: No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
Reproductive Toxicity: No specific data available.
Teratogenicity: No specific data available.
Specific Target Organ Toxicity (single exposure): Respiratory tract irritation.
Specific Target Organ Toxicity (repeated exposure): No specific data available.
Aspiration Hazard: No specific data available.
Additional Information: Ingestion or inhalation may cause Central Nervous System (CNS) depression. Ingestion may cause stomach irregularities with nausea and vomiting.
Section 12. Ecological Information

Numerical Measures of Toxicity

Toxicity to Fish: No specific data available.

Toxicity to daphnia and other aquatic invertebrates: No specific data available.

Toxicity to algae: No specific data available.

Persistence and Degradability

Biodegradability: No specific data available.

Bioaccumulative potential: No specific data available.

Mobility in soil: No specific data available.

Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

Waste Treatment Methods

Product: Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

Contaminated packaging: Empty containers retain product residue (dust) and can be dangerous.

Section 14. Transport Information

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<td>Additional Information</td>
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Special Precautions for User: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transporting in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.
TSCA (Toxic Substance Control Act):
This product is listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard (Irritation).

Massachusetts Right to Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components
No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components
No components are subject to the New Jersey Right to Know Act.

California Proposition 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16. Other Information

National Fire Protection Association (U.S.A.)
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Section 16. Other Information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### HMI S Rating

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### History

- **Date of printing**: 8/3/18
- **Date of issue/ Date of Revision**: 8/3/18
- **Date of previous issue**: None
- **References**: None available

### Abbreviations and Acronyms

- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DOT: US Department of Transportation
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- IMDG: International Maritime Code for Dangerous Goods
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- SARA: Superfund Amendments and Reauthorization Act
- VOC: Volatile Organic Compound
Disclaimer

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.