Material Safety Data Sheet

Magnesium Hypophosphite Hexahydrate

Section 1: Chemical Product and Company Identification

Product Name: Magnesium Hypophosphite Hexahydrate
Catalog Codes: Not available.
CAS#: 10377-57-8
RTECS: Not available
TSCA: TSCA 8(b) inventory: Magnesium Hypophosphite Hexahydrate
CI#: Not available.
Synonym: Magnesium Hypophosphite
Chemical Name: Not available.
Chemical Formula: Mg(H2PO2)2·6H2O

Contact Information for Emergency: (0086) 551 65418681

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Section 2: Composition and Information on Ingredients

Composition:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Hypophosphite Hexahydrate</td>
<td>10377-57-8</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Not available.
Section 3: Hazards Identification

This substance is considered to be non-hazardous for transport.
Emergency Overview:
Caution: Avoid contact and inhalation

Section 4: First Aid Measures

Eye Contact:
In case of contact with eyes, flush with copious amount of water for at least 15 minutes.

Skin Contact:
Remove contaminated clothing and wash affected skin with soap and water for at least 15 minutes. If irritation persists, get medical attention.

Inhalation:
If inhaled, move to fresh air. If coughing, get medical attention.

Oral Contact: Induce vomiting get medical attention. If conscious, immediately give 2-to 4 cups of milk or water; if unconscious, never give anything by mouth to unconscious person, get medical attention immediately.

Section 5: Fire and Explosion Data

Extinguishing Media:
Suitable: water spray, dry chemical powder, carbon dioxide or appropriate foam.

Firefighting:
Protective Equipment: water self-contained breathing apparatus and full protective clothing to prevent contact with skin and eyes.
Specific hazards: Emit toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Procedure To Be Followed In Case of Leak or Spill:
Evacuate area

Procedure of Personal Precautions:
Wear self-contained breathing apparatus, rubber boots, and compatible chemical-resistant gloves.

Methods for cleaning up:
Sweep with spade, place into a dry, clean, lidded container for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Handling
Wear appropriate protective clothing and compatible chemical-resistant gloves. Avoid contact with eyes, skin.
Avoid inhalation. Mechanical exhaust required. Keep away from ignition source, heat and flame.

Incompatibilities: strong oxidizing agents and foods. No smoking at working site.

Storage:
Store in a cool, dry, ventilated area. Keep away from ignition source, heat and flame. Store in a tightly closed container, protective from moisture. Incompatibilities: strong oxidizing agents and foods.

Section 8: Exposure Controls/Personal Protection

Engineering Control: Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment:

- **Respiratory**: None normally required. However, if mists are present, wear a NIOSH approved respirator, supplied-air respirator, or SCBA.
- **Eye**: Safety goggles.
- **Clothing**: Wear appropriate protective clothing.
- **Hand**: Compatible safety gloves.
- **Other Protect**: No smoking, drinking and eating at working site. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White powder</td>
</tr>
<tr>
<td>PH</td>
<td>4-6</td>
</tr>
<tr>
<td>MP/MP point</td>
<td>Not available</td>
</tr>
<tr>
<td>BP/BP Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Flammability</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>1 mg in 10 ml boiled and cooled water</td>
</tr>
<tr>
<td>Use</td>
<td>Used in the manufacture of medicine, and also used to manufacture of salts hypophosphite.</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity Data

- **Stability**: Stable under normal temperatures and pressure.
- **Conditions to Avoid**: Protect from moisture.
- **Hazardous Polymerization**: Will not occur.
- **Hazardous Decomposition Products**: Phosphorus oxides and/or phosphine.

Section 11: Toxicological Information

Not available.
Section 12: Ecological Information
Not available.

Section 13: Disposal Considerations
Waste Disposal:
Spent of discarded material is not belong to hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information
DOT Classification: Not a DOT controlled material (United States).
Identification: Not applicable.
Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information
EU Additional Classification:
S22 24/25
Safety Statements: Do not breathe dust. Avoid with skin and eyes.

Section 16: Other Information
References: Not available.
Other Special Considerations: Not available.
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Last Updated: 05/21/2016 12:00 PM

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