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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

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Magnesium Hypophosphite Hexahydrate	10377-57-8	100

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

Appearance: White powder

PH: 4-6

MP/MP point: Not available

BP/BP Point: Not available

Flash Point: Not available

Ignition temperature: Not available

Lower explosion limit: Not available

Upper explosion limit: Not available

Auto Flammability: Not available.

Solubility: 1 mg in 10 ml boiled and cooled water

Use: Used in the manufacture of medicine, and also used to manufacture of salts hypophosphite.

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 or 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 an 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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