



# Safety Data Sheet

Report Date 11-Sep-15

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## 1. Identification

**Product Name** : HELENA PROPHYT  
**Synonyms** : None  
**Product Use** : Systemic Fungicide - Potassium Phosphite  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification

**Signal Word** : Warning (no symbol)  
**Skin Irritation** : Not classified as hazardous  
**Eye Irritation** : Not classified as hazardous  
**Acute Toxicity Oral** : LD50 >5,000 mg/kg (rat)  
**Acute Toxicity Dermal** : LD50 >4,000 mg/kg (rabbit)

**Hazard Categories** : Dermal Toxicity - 5

**Hazard Statement** : May be harmful in contact with skin

## 3. Composition / Information on Ingredients

| Component   | CAS Number                | Weight % |
|---|---------------------------|----------|
| Dipotassium phosphite and monopotassium phosphite | 13492-26-7 and            | 54.50    |
| Other ingredients                                 | 13977-65-6<br>Proprietary | 45.50    |

## 4. First Aid Measures

**Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

**Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

**Indication of Immediate Medical Attention and Special Treatment Needed** : In the event of an adverse response, treatment should be directed toward control of the symptoms.

## 5. Fire Fighting Measures

**Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.

**Specific Hazards Arising from the Chemical** : Contact with oxidizing materials is hazardous.

**Special Fire Fight Proc** : Wear positive pressure, self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.



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### 6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, long-sleeved shirt and long pants, shoes plus socks. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Stop leak if possible. Do not contaminate water supplies, lakes, streams, ponds or drains.
- Methods and Materials for Containment and Cleanup** : Contain product with an inert diking material, such as clay, sand, earth or sawdust. Collect as much of the free liquids as possible. Place reclaimed material in a closed and properly labeled salvage drum and store in an area awaiting proper disposal. Flush spill area with water. Collect and place in same container with other clean up material.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents. Separate from chlorates, nitrates and other oxidizing materials.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established
- Appropriate Engineering Controls** : Local exhaust normally sufficient
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, long-sleeved shirt and long pants, shoes plus socks. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear, colorless to blue liquid; odorless.
- Flash Point, °F** : >100 Degrees C.
- Boiling Point, °F** : >100 Degrees C.
- Melting Point(Freezing point), °C** : 0 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not applicable
- Vapor Density** : Not available
- Solubility in Water** : Miscible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.45-1.49
- Evaporation Rate(Butyl Acetate = 1)** : Not applicable
- Octanol/Water Partition Coefficient** : Not applicable
- pH** : 6.0 to 7.0
- Flammable Limits (approximate volume % in air)** : Not determined
- Auto-ignition Temperature** : Not determined
- Decomposition temperature** : Not available



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### 10. Stability and Reactivity

- Reactivity** : Will react with strong oxidizers/reducers.
- Chemical Stability** : Stable
- Hazardous Decomposition** : None currently known.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid incompatible materials and exposure to excessive heat or open flame.
- Incompatible Materials** : Strong oxidizers like potassium permanganate and strong reducers like zinc powder.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/kg (rat). Not classified as hazardous by ingestion.
- Acute Toxicity (Dermal LD50)** : >4,000 mg/kg (rabbit). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : >5.05 mg/L (rat). Not classified as hazardous by inhalation.
- Likely Routes of Exposure** : Skin
- Skin Irritation** : Not classified as hazardous by skin contact.
- Eye Irritation** : Not classified as hazardous by eye contact.
- Skin Sensitization** : Not a contact sensitizer.
- Carcinogenic** : No carcinogenic potential.
- Chronic Effects** : No long term effects expected.
- Other Hazards** : No reproductive, neurologic or mutagenic effects.

### 12. Ecological Information

- Ecotoxicity** : Birds LD50 >2,250 mg/kg, LC50 5 Day >5,620 mg/kg; Fish LC50 96-hour >118 mg/L; Crustacean EC50 48 hours >118 mg/L; Honeybees oral LD50 48 hours >145 mcg/bee
- Persistence and Degradability** : Not readily biodegradable
- Bioaccumulative Potential** : No bioaccumulative potential
- Mobility in Soil** : Medium to low mobility in soil
- Other Adverse Effects** : No information found

### 13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : No information found
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : No information found
- Freight Classification** : Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)



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### 15. Regulatory Information

**National Fire Protection Association Rating :**

Health: 2 Fire: 0 Reactivity: 1  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No) :**

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: N  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

**FIFRA Information :** This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Registration Number :** 42519-22-5905

**FIFRA Signal Word :** Caution

**FIFRA Label Statement :** Keep out of reach of children.

**FIFRA Label Statement :** Harmful if swallowed or absorbed through skin.

**FIFRA Label Statement :** Causes eye irritation.

**FIFRA Label Statement :** Avoid contact with skin, eyes or clothing.

**FIFRA Label Statement :** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum,

**FIFRA Label Statement :** using tobacco, or using the toilet.

**FIFRA Label Statement :** No additional label statements.

### 16. Other Information

**Data of Preparation/Revision :** 11-September-2015