5. FIRE FIGHTING MEASURES

Fire and Explosion
Flash Point (Test Method): Not Available
Flammable Limits (% in Air): Lower: %; Upper: % Not Available
Autoignition Temperature: Not Available
Flammability: Not Applicable
Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to CO, CO2, Nitrogen, Sulfur and Phosphorus.

In Case of Fire
Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until notified.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
Wear chemical goggles or a full-face shield, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge pesticide respirator with dust/mist pre-cartridges or a self-contained breathing apparatus (SCBA).

For small spills, cover with an absorbent material such as pet litter. Sweep up, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Find the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and animals. Do not store food, beverages or tobacco products in storage areas. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.
Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear chemical goggles or a full-face shield.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants, and a head covering.

Inhalation: To avoid breathing mist or vapors, wear a NIOSH-approved chemical cartridge pesticide respirator with dust/mist pre-cartridges or a supplied-air respirator.

Applicants/Handlers: Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light Amber Liquid
Odor: Odorless

10. STABILITY AND REACTIVITY
Reactivity
Stability: Stable
Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Temperatures >100 oC and Oxidizing Agents (e.g., Chlorates, Nitrates)

Hazardous Decomposition Products
None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicty/Irritation Studies
Ingestion: Practically non-toxic
Oral LD50 (Rat): > 5,000 mg/kg body weight
Dermal: Slightly toxic
Dermal LD50 (Rabbit): > 2,000 mg/kg body weight
Inhalation: Practically non-toxic
Inhalation LC50 (Rat): > 6 ml/L air - 1 hour
Eye Contact: Moderately irritating (Rabbit)

Skin Contact: Non-irritating (Rabbit)
Skin Sensitization: Not Available
Mutagenic Potential
Thiabendazole: None Observed

Reproductive Hazard Potential
Thiabendazole: Decreased fetal weights and increased incidence of resorptions observed in dose levels that were maternally toxic. An increase in skeletal defects and cleft palate was observed in fetuses of mice given 10X the human dose. Chronic/Subchronic Toxicity Studies
Thiabendazole: Increased incidence of anemia and changes in the thyroid, liver, spleen, kidney and gall bladder in rats and dogs.

Carcinogenic Potential
Thiabendazole: None Observed

Other Toxicity Information
Not Available

Toxicity of Other Components
Hypophosphorus Acid (50% Solution) Contact is corrosive which causes severe skin and eye burns with irreversible eye injury. Inhalation results in severe digestive tract burns and hemorrhaging along with severe pain, nausea, vomiting, diarrhea and shock.

Inhalation causes respiratory tract burns and may lead to chemical pneumonitis and pulmonary edema. Prolonged inhalation may cause respiratory tract inflammation and lung damage.

Target Organ(s)
Active Ingredients
Thiabendazole: Thyroid, Liver, Spleen, Kidneys, Gall Bladder and Blood

Insect Ingredients
Hypophosphorus Acid (50% Solution): Eyes, Skin and Respiratory Tract

12. ECOLOGICAL INFORMATION

Summary of Effects
Thiabendazole: Very toxic to aquatic organisms. The aquatic toxicity is not increased significantly by chronic exposure. Does not bioaccumulate in fish and is rapidly metabolized.

Eco-Acute Toxicity
Thiabendazole: Rainbow Trout 96-hour LC50 0.55 mg/L
Bluegill Sunfish 96-hour LC50 19 mg/L
Daphnia magna 48-hour LC50 0.81 mg/L
Green Algae 5-day EC50 8.99 mg/L
Myxid Shrimp 48 HR LC50 0.34 mg/L
Mallard 5-day Dietary LC50 5.62 mg/L

Eco-Chronic Toxicity
Thiabendazole: Not Available

Environmental Fate
Thiabendazole: Does not degrade readily in soil but remains immobile in soil and will not leach. Degradation in sunlight both in water and on plant surfaces.

13. DISPOSAL CONSIDERATION

Disposal
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:
Pesticides, Liquid, Toxic, N.O.S. (Hypophosphorus Acid Solution), 6.1, UN 3902, PG III

IATA/ICAO Aircraft Classification:
Agricultural, N.O.S.
15. REGULATORY INFORMATION

SARA Title III Classification
Section 311/312: Acute Health Hazard
Chronic Health Hazard
Section 313 chemical(s): Thiabendazole (20.31%)
(CAS No. 148-79-8)
Proposition 65
Not Applicable
CERCLA Reportable Quantity (RQ)
None
RCRA Classification
Not Applicable
TSCA Status
Exempt from TSCA

16. OTHER INFORMATION

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Questions concerning the safe handling of the product should be referred to: Industrial Health
1-800-334-9481

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