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**SECTION 4: FIRST AID MEASURES**

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General: Remove from source of exposure. If irritation or other signs of toxicity occur, seek medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. If present, remove contact lenses and continue rinsing eye. Seek medical attention.

Skin: Remove contaminated clothing. Thoroughly wash skin with plenty of soap and water. If irritation persists, seek medical attention.

Inhalation: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration.

Ingestion: Call a doctor immediately if a large amount is swallowed. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

**Note to Physicians and First Aid Providers:** This product has low oral, dermal, and inhalation toxicity. Direct contact with eyes may cause temporary irritation. Provide symptomatic and supportive care as necessary.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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General: Use methods and protective gear that are appropriate for the conditions and size of the fire.

Extinguishing Media: Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Use appropriate media for underlying cause and combustibles involved in the fire.

Special Equipment: Self-contained breathing apparatus and full protective gear according to the conditions and size of the fire.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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Personal Precautions: Wear suitable protective clothing such as long-sleeved shirt, pants, impervious gloves, safety glasses or goggles, and shoes with socks. See Section 8 for respirator requirements.

Methods for Clean Up: Isolate spill or leak area. Extinguish any open flames. Soak up material with absorbent and shovel into a chemical waste container for disposal. Rinse spill area with water and flush to a sewer serviced by a permitted wastewater treatment facility.

Section 6 Notes: Refer to section 8 for personal protection and section 13 for disposal considerations.

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**SECTION 7: HANDLING AND STORAGE**

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Handling: Use handling procedures that minimize exposure to the product.

Storage: Store in a cool, dry, well-ventilated place in original container. Do not use or store near heat, open flame or hot surfaces. Keep container closed when not in use. Do not contaminate other pesticides, fertilizers, water, or feed by storage or disposal.

Section 7 Notes: Avoid contact with skin, eyes and clothing. Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking or using the toilet.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

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General: Protective clothing should be selected according to the conditions likely to be encountered in the workplace. Ensure good ventilation. No exposure limits have been established.

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to reduce airborne exposure.

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**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION continued**


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## Personal Protective Equipment:

Respiratory:	Not normally required in open, well-ventilated areas. However, in enclosed areas such as greenhouses, applicators and other handlers must wear a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE filter.
Eyes and Face:	Chemical safety goggles or safety glasses with side shields.
Hands/Skin:	Gloves made from chemically resistant material such as neoprene, vinyl, rubber, or nitrile.
Other Clothing:	Wear suitable protective clothing such as long-sleeved shirt, pants, and shoes with socks.
Hygienic Practices:	Wash hands and exposed skin before eating, drinking, smoking or using the toilet.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**


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Appearance/Odor:	Pale amber liquid with aromatic, characteristic terpene odor
Melting Point:	Not Applicable
Boiling Point:	≥ 100° C (≥ 212° F)
Flash Point:	61.7° C (143° F) (PM Closed Cup)
Density:	0.88 – 0.90 g/ml
Solubility in Water:	Miscible
pH:	5.2 – 5.4 (1% aqueous)
Viscosity:	6.4 mPa-s

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**SECTION 10: STABILITY AND REACTIVITY**


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Stability:	Stable, material is non-reactive.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.
Materials to Avoid:	None that are known.
Hazardous Decomposition Products:	None that are known.
Hazardous Polymerization:	Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**


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Possible Routes of Entry: Eyes and skin

Potential Health Effects from Over-exposure

Skin/Eye: Direct contact with skin or eyes may cause temporary irritation. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

Acute studies on product:

Acute Oral LD <sub>50</sub> (Rat):	> 5,000 mg/kg	Eye Irritation (Rabbit):	Minimal to mild
Acute Dermal LD <sub>50</sub> (Rabbit):	> 5,000 mg/kg	Dermal Irritation (Rabbit):	Mild to moderate
Acute Inhalation LD <sub>50</sub> (Rat):	> 2.02 mg/L (Limit test) *	Sensitization (Guinea Pig):	Sensitizer

Section 11 Notes: None of the components of this product are listed as carcinogenic by NTP, IARC, or OSHA.

\* 2.02 mg/L was the maximum attainable aerosol concentration for this test due to the physical nature of the product. No deaths or toxic effects were observed in the test animals during the study period.

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**SECTION 12: ECOLOGICAL INFORMATION**

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Ecological Information: No information available, however, the components in this product are readily biodegradable in soil and water.

Ecotoxicity Information: Technical active ingredient is toxic to aquatic invertebrates (Daphnia 48-hr EC50 = 1.3 mg/L) and moderately toxic to fish (Fathead minnow 96-hr EC50 = 20 mg/L). No data on formulated product.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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Disposal Method: Open dumping or burning of this material or its packaging is prohibited. Treatment, storage, transportation and disposal must be in accordance with applicable regulations.

Empty Container: Completely empty container into application equipment, rinse with water and add rinsate to application equipment. Dispose of empty container in accordance with applicable environmental regulations.

Section 13 Notes: Because regulatory requirements are subject to change and acceptable methods of disposal may vary by location, the appropriate agencies should be contacted for advisement prior to disposal. Characterization and compliance with applicable laws are the responsibility of the generator.

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**SECTION 14: TRANSPORT INFORMATION**

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US Department of Transportation (DOT) Classification:  
For Non-Bulk quantities and packaging only (less than 119 gallons / 450 liters)

This material is not regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities.

For Bulk quantities and packaging only (greater than 119 gallons / 450 liters)

Proper Shipping Name: Combustible Liquid, N.O.S. (Terpenes)  
Identification Number: NA 1993  
Class / Division: 3  
Packing Group: III  
ERG Number: 128  
Freight Classification: Insecticides, Fungicides N.O.I., Other Than Poisons. NMFC 155050 Class 60

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**SECTION 15: REGULATORY INFORMATION**

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Labeling According to EC Directives:

Symbol: Not Required  
R-phrases: R10 Flammable  
S-phrases: S 2 Keep out of reach of children  
(Recommended) S 20/21 When using do not eat, drink or smoke  
S 24/25 Avoid contact with skin and eyes  
S 29/35 Do not empty into drains; dispose of this material and its container in a safe way

U.S. EPA SARA: Acute health (irritation and sensitization). No chronic health hazards. Fire hazard. No  
(Title III Classification) release of pressure, or reactivity hazards.

U.S. EPA: Registered as a pesticide product: EPA Reg. No. 69592-22

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**SECTION 16: OTHER INFORMATION**

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Reason for Revision: Updated logo  
Revised freight classification number  
Supersedes MSDS Dated: December 17, 2008

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