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## **1. Product Identification**

**Zero Tolerance Fungicide (Concentrate)**

**aka**

**ZT Fungicide (Concentrate)**

**aka**

**Zero Tolerance Herbal Fungicide (Concentrate)**

**aka**

**ZT Herbal Fungicide (Concentrate)**

This MSDS covers the Concentrate preparation.

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## **2. Hazards Identification/Overview**

Appearance/Odor: White/Yellow opaque, free-flowing liquid with sweet herbal (wintergreen/cinnamon) odor. Potential separation of components to form a yellow-orange oil layer and white opaque aqueous layer.

EMERGENCY OVERVIEW: No hazardous materials present as defined in 29 CFR 1910.1000, 40 CFR 260 – 281, 302, 355, 370, 372 or WHMIS.

WARNING: Vapors may cause skin/eye irritation for certain individuals who are sensitized.

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## **3. Health Hazard Data/First Aid Measures**

Inhalation: None expected, however, certain individuals may be sensitized and experience minor nausea or headaches.

Emergency and first aid procedures: Remove affected person to fresh air; if symptoms persist, seek medical attention.

Skin: None expected, however prolonged or repeated contact may cause irritation and dermatitis.

Emergency and first aid procedures: Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

Eyes: Contact with eyes may cause irritation.

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Emergency and first aid procedures: Remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.

Ingestion: May cause gastric distress, vomiting and diarrhea.

Emergency and first aid procedures: Give two glasses of water for dilution; DO NOT induce vomiting; seek medical attention.

Health Hazards (Acute and Chronic): Acute effects are possible (irritation and discomfort); no known chronic effects have been established.

Carcinogenicity: No additional information.

Medical conditions generally aggravated by exposure: Preexisting skin, eye or respiratory disorders may become aggravated through prolonged exposure.

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## 4. Potential Environmental Effects

**Ecotoxicity:** None known at this time. Has not been tested for aquatic environments.

**Persistence/ Degradability:** Degrades when open to air for extended time due to evaporation of volatile components

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## 5. Composition of Ingredients

All ingredients are considered non-hazardous materials.

Water	25%
Glycerin	50%
Potassium Bicarbonate	10%
Lecithin	2%
6 Herbal Oils (Cinnamon Bark, Cinnamon Leaf, Oregano, Thyme, Clove Leaf, Wintergreen)	< 13% Total Oils

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## 6. Fire Fighting Measures

Flash Point: Non-flammable Flammable Limits: LEL: N/A UEL: N/A  
Component oils have potential flash points if separated: Ranges from 110 °F to 200 °F

Extinguishing Media: Carbon dioxide, water, water fog, dry chemical, chemical foam

Special fire fighting procedures: Cool containers exposed to flame with water; spray to prevent container rupture due to steam buildup; floor will become slippery if material is released.

Unusual fire and explosion hazards: None. Material is not pyrophoric. Does not react with water. Not oxygen donor. Material is shock stable.

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## 7. Accidental Release Measures

Steps to be taken in case materials is released or spilled:

Small spills – wash to sanitary sewer with plenty of water.

Large spills – soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water. Avoid disposing of large spills into drainage systems and into the environment.

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## 8. Handling and Storage

Precautions to be taken in handling and storage: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.

Store in a cool, dry and ventilated area away from heat sources and protected from the light. Keep air contact to a minimum.

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## 9. Exposure Controls/Personal Protection

Respiratory protection: None required.

Ventilation:

**Local exhaust:** Not necessary **Mechanical (General):** Recommended

Protective gloves: None required

Other protective equipment: Safety eyebath nearby

Eye protection: Recommended for general protection

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## 10. Physical/Chemical Properties

Color: Opaque, white to slight yellow

Physical State: Liquid

Boiling Point: ~90 °C

Vapor Pressure (MM Hg): NS

Vapor Density (Air = 1): 1

Solubility in Water: Miscible

Odor: Sweet, herbal

Specific Gravity (Water = 1): 1.25

pH: Slightly Alkaline

Evaporation Rate (Water = 1): N/A

% Volatile (by weight): < 13 %

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## 11. Stability and Reactivity

Stable.

Conditions to avoid: Extreme temperatures; keep from freezing or heat.

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Incompatibility (materials to avoid): Strong oxidizers, strong acids

Hazardous decomposition or byproducts: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes and smoke may be produced.

Hazardous polymerization: Will not occur

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## 12. Disposal Considerations

Waste disposal method: Dispose of in accordance with Local, State and Federal regulations. Products classified as non-hazardous may become hazardous waste upon contact with other products. Refer to 40 CFR Protection of Environment Parts 260-299 for complete waste disposal regulations. Consult your local, state or Federal Environmental Protection Agency before disposing of any chemicals.