

# SYSTREX®/NUTRIENT MATERIAL SAFETY DATA SHEET

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## Florida Silvics, Inc. (dba Tree Tech Microinjection Systems)

950 SE 215<sup>th</sup> Ave  
Morrison Florida 32668

**In case of emergency, call 1-800-622-2831 or Chemtrec 1-800-424-9300**

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### I. MATERIAL IDENTIFICATION

Product Name: **SYSTREX/NUTRIENT**                      **EPA Registration No. 64014-3**  
Contains Bayleton® fungicide (8 mL) and dilute liquid fertilizer (6 mL) per microinjection unit  
Chemical Name: 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2- butanone  
Synonym (Pesticide):                      Triadimefon    Formula C14 H16 Cl N3 O2  
Chemical (Pesticide) Family:              Triazole fungicide  
T.S.C.A. Status:                              Registered under FIFRA  
EPA Signal Word:                              Caution

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### II. INGREDIENTS

Material:  
ACGIH not established  
Ingredient 1406    1-3%    trade secret  
Cyclohexanone    1-3%    CAS No. 108-94-1    Exposure limit OSHA 50 ppm, ACGIH 25 ppm  
Dilute liquid fertilizer    43% par  
Product Name: **SYSTREX/NUTRIENT**

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### III. FIRST AID PROCEDURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

**Ingestion:**                      If conscious, wash out mouth and expectorate. Then immediately give a large quantity of water and induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Apply artificial respiration if needed to maintain breathing. Call a physician or nearest poison control center immediately.

**Eye Contact:**                      Immediately flush eyes with large amounts of running water for a minimum of 15 minutes. Hold eyelids open during flushing. Do not attempt to neutralize with chemical agents. Get medical attention if irritation persists.

**Skin Contact:**                      Remove contaminated clothing. Wash thoroughly with soap and water. Get medical attention if irritation persists. If signs of intoxication (poisoning) occur, get medical attention immediately.

**Inhalation:**                      Remove victim to fresh air. If symptoms appear or if person is unconscious get medical attention immediately. Apply artificial respiration if needed to maintain breathing.

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### IV. HEALTH HAZARD INFORMATION

Symptoms of Exposure: This product has very low toxicity and there are no specific symptoms of overexposure in humans. Skin and eye contact are the most likely routes of exposure. Liquid and mist will irritate eyes resulting in tearing and/or reddening of the eyes. No irritation to the skin is likely after brief contact, but would be irritating after prolonged contact. Based on animal studies no adverse effects or symptoms would be expected from chronic exposure to this product.

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## V. REACTIVITY

**Stability:** Stable at ambient temperatures.

**Conditions to Avoid:** Moisture and high temperatures.

**Materials to Avoid:** Strong acids and oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, HCl, hydrazines, amines, and nitrogen oxides. Hazardous polymerization will not occur.

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## VI. PHYSICAL HAZARD INFORMATION

Physical Properties:

Boiling Point:	Not established
Specific Gravity:	Density = 1.03
Vapor Pressure:	1.5 x 10 <sup>-7</sup> mm Hg @ 20o C (for triadimefon)
Vapor Density:	Not established (air = 1)
Melting Point:	n/a
Per cent volatile:	2.0 (by volume)
Solubility in Water:	(triadimefon) 60 ppm @ 20o C
Appearance:	Plastic microinjection unit containing greenish-blue liquid
Odor:	Pungent petroleum distillate odor

Fire and Explosion:

Flash Point:	162° F Set-A-Flash
Flammability Limits:	UEL: Not established LEL: Not established

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## VII. ENVIRONMENTAL PROTECTION

**Waste Disposal Method:** Observe all federal, state and local laws concerning health and environment.

**In Case of Fire:** Use water mist (and contain runoff), dry chemical, foam, or carbon dioxide extinguishing media. For special fire fighting procedures, use self-contained breathing apparatus and full protective clothing. Prevent human exposure to fire, smoke or fumes. Evacuate non-essential personnel from area. Fight fire from upwind position. Equipment or materials involved in pesticide fires may become contaminated. Use water spray to cool nearby containers and structures exposed to fire. If water is used as an extinguishing medium, the contaminated area must be diked to keep the contaminated water out of all water supplies. Observe all government regulations on spill reporting and handling disposal of waste.

**Unusual Fire and Explosion Hazards:** Toxic vapors may be formed

Product Name: **SYSTREX/NUTRIENT** Page 4 of 5

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## VIII. PERSONAL PROTECTION AND PRECAUTIONS

Respiratory:	Not needed under normal handling conditions
Eye:	Wear protective eye wear
Ventilation:	Use general and local exhaust ventilation when needed

Other Protective Devices and Procedures: Wear chemical resistant gloves such as polyethylene or butyl rubber or neoprene rubber or viton. Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Shower or wash thoroughly after handling

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**IX. CALIFORNIA ADDENDUM (PROPOSITION 65) SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986**

The following specific warnings are hereby given relative to substances that the State of California has identified as carcinogens and/or reproductive hazards under Proposition 65:

**WARNING: This product contains a chemical known to the State of California to cause cancer**

**WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.**

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**IX. SARA TITLE III HAZARD CATEGORY:  
For Reporting Under Section 311 & 312**

Components present in this product that require reporting under the statute are: None

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**X. SPECIAL PRECAUTIONS AND STORAGE DATA**

Handling Precautions: Avoid skin and eye contact Wash thoroughly after handling.

Storing Precautions: Store in cool, well-ventilated, dry place. Do not store below 0° or above a 30-day average not to exceed 100° F. Do not store with feed or food. Do not place damaged or leaking containers in inventory.

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**Other Precautions: Do not contaminate any body of water. KEEP OUT OF REACH OF CHILDREN.**

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**XI. SHIPPING DATA**

D.O.T. Shipping Name: Not regulated

Technical Shipping Name: Triadimefon

D.O.T. Hazard Classification: Not applicable

UN/NA no.: Not applicable

Reportable Quantity (RQ): None

D.O.T. Placards: None

D.O.T. labels required: None

Freight Class Bulk: Fungicide, Agricultural, Liquid

Freight Class Pkg.: Fungicide, Agricultural, Liquid

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**XII. ANIMAL TOXICITY**

CARCINOGENICITY: Triadimefon not listed NTP, IARC, OSHA

Toxicity: Acute Oral LD<sub>50</sub> Triadimefon (rats), >5000 mg/kg

Acute Dermal LD<sub>50</sub> Triadimefon (rabbits) > 2000 mg/kg

Inhalation LC<sub>50</sub> (4 hr.): Triadimefon > 26150 mg/m

Note: Is listed as a slight eye and skin irritant

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. This information is furnished solely for your consideration, investigation and verification. Before using any product READ THE LABEL.