

# VIVID® II

## MATERIAL SAFETY DATA SHEET

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Florida Silvics, Inc. (dba Tree Tech Microinjection Systems)  
950 SE 212<sup>th</sup> Ave  
Morrison Florida 32668  
**In case of emergency, call 1-800-622-2831**

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### I. MATERIAL IDENTIFICATION

Product Name: **VIVID® II**                      **EPA Registration # 64014-10**

Active Ingredient (% w/w)    Abamectin (a mixture of avermectins containing primarily avermectin B<sub>1a</sub>) .1.0 %  
Chemical Name:            Abamectin  
Chemical Class:            Insecticide - miticide - nematicide  
EPA Signal Word:        Warning

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### II. HAZARDOUS INGREDIENTS

<u>Component</u>	<u>Molecular Formula</u>	<u>Molecular Weight</u>	<u>CAS Number</u>	<u>Percent (%)</u>
Abamectin B <sub>1a</sub>	C <sub>48</sub> H <sub>72</sub> O <sub>14</sub>	873.08	71751-41-2	1.0
Abamectin B <sub>1b</sub>	C <sub>47</sub> H <sub>70</sub> O <sub>14</sub>	859.05	Mixture	
Proprietary Ingredient(s)	Not avail.	Not avail.	Not avail.	99.0

<u>Material</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% Ingredients</u>
Abamectin	n/a	n/a	1.0%
Inert Ingredients: (non-hazardous)	n/a	n/a	99.0%

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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:** Get immediate medical attention. Induction of vomiting as directed by a physician depending on the quantity ingested.

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin Contact:** Wash with plenty of water and soap. Remove contaminated clothing.

**Inhalation:** Remove from contaminated area immediately. Get medical attention.

Medical Conditions Aggravated by Exposure -- None known

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#### IV. HEALTH HAZARD INFORMATION

Symptoms of Exposure: Skin and eye contact are the most likely routes of exposure. Liquid and mist will irritate eyes. No irritation to the skin is likely after brief contact, but may be irritating after prolonged contact.

Routes of Entry:                   Inhalation:    Yes  
  Skin:            Yes  
  Ingestion     Yes

Carcinogenicity:                    NTP:            Not Listed  
  IARC:           Not Listed  
  OSHA:           Not Listed

Effects of Acute Exposure:

**Eye Contact:** Moderate ocular irritant

**Skin Contact:** The emulsifiable concentrate was shown to be a skin sensitizer in the guinea pig maximization test. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals.

**Inhalation:** Moderately toxic if inhaled. Avoid inhaling spray mist.

**Ingestion:** Moderately toxic orally in animal studies

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Effects of Chronic Exposure: Chronic toxicity studies on the formulated compound have not been performed. Technical grade Abamectin has been studied extensively. In 12-week studies in dogs, mydriasis and weight loss were seen in animals given doses above 1.0 mg/kg/day. No evidence of carcinogenicity has been seen in chronic feeding studies in rats and mice.

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#### V. PHYSICAL HAZARD INFORMATION

Physical Properties

Boiling Point:                   Not established  
Freezing Point:                   Not available  
Specific Gravity:                 0.96 (Water=1)  
Vapor Pressure:                 Not applicable (mm Hg @ 20<sup>0</sup> C)  
Vapor Density:                 Greater than 1 (air = 1)  
Melting Range:                 Not applicable  
Solubility in Water:             Not established  
Appearance:                    Microinjection unit filled with golden-colored liquid  
Odor/Threshold Level(ppm):    Do not test for odor to avoid breathing vapors

Fire and Explosion:  
Flash Point(OC/OF): 72/161  
Flammability Limits: UEL: Not applicable  
LEL: Not applicable

**Hazardous Decomposition**

Products: Resulting from A Fire Toxic gases including carbon monoxide, carbon dioxide and smoke can be generated.

**Reactivity**

Stability: Stable under normal conditions  
Hazardous Polymerizations: None  
Conditions to Avoid: Heat, sparks and open flame  
Incompatibility: None

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**VI. ENVIRONMENTAL PROTECTION**

**Spill/Leak/Disposal Procedure:**

Steps to be taken in case materials are released:

Contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, absorb small spills on spill pillows or other suitable absorbing material and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal. Use suitable protective equipment (see Section VII). Follow all fire prevention procedures (Section VIII).

Abamectin is very toxic to certain aquatic species. Avoid contact of spilled materials and runoff with soil and surface waterways. Residual surface material should be removed with towels moistened with methanol. Incinerate all spill material and residues at temperatures greater than 600°C.

Environmental Data: Pure abamectin: LC50 (Daphnia Magna) 48 hours = 0.34 ppb (very highly toxic to aquatic organisms).

This product is highly toxic to bees.

For additional assistance, CHEMTREC provides a toll-free Hotline for chemical emergencies regarding spills, leaks, exposure or accidents: 1-800-424-9300

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

In Case of Fire: Use water spray, dry chemical, alcohol foam, or carbon dioxide extinguishing media. For special fire fighting procedures, use self-contained breathing apparatus and full protective clothing. 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: None

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## **VII. PERSONAL PROTECTION AND PRECAUTIONS**

**Respiratory:** If use results in vapor/mist concentrations above the ECL, an approved respirator for vapors/mists is recommended.

**Eye/Face:** To protect against accidental eye contact, goggles should be worn

**Hands/Arms:** Rubber gloves should be worn. Wash thoroughly with soap and water after handling.

**Ventilation:** Proper ventilation should be maintained at all times to prevent high vapor/mist conditions. Use only in well-ventilated areas or outdoors.

Additional Protective

**Equipment:** Protective clothing such as coveralls and/or apron and rubber boots. Wash protective clothing after use.

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## **VIII. SPECIAL PRECAUTIONS:**

Special Precautions To Be Taken When:

**Handling and Storing, etc.:** Store in a cool, dry, well-ventilated location. Do not store near heat or flame. Do not re-use empty microinjection units.

**Other:** May be harmful if inhaled. Do not breathe spray mist. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Keep out of the reach of children

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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. BASIC TRANSPORTATION DESCRIPTION**

U.S. DOT:	Pesticides, Liquid, Toxic, N.O.S., (Abamectin Solution), 6.1, UN2902, PG III
ICAO/IATA:	Pesticides, Liquid, Toxic, N.O.S. (Abamectin Solution),
MO Class	6.1, UN2902 (Packaging Group III)
IMOP:	Pesticides, Liquid, Toxic, N.O.S. (Abamectin Solution),
IMO Class	6.1, UN2902 (Packaging Group III)
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