



## OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** May cause severe skin irritation

**Eye Irritation:** Causes moderate eye irritation

**Sensitizer:** Not a skin sensitizer

## 4. FIRST AID MEASURES

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.

**If on Skin:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

**If swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

**NFPA Rating:** **Health: 1**                      **Fire: 0**                      **Reactivity: 0**

**Flammability Class:** Combustible solid

**Flash Point:** Does not flash

**Explosive Limits (% of Volume):** Not established

**Extinguishing Media:** Water, foam, dry chemical, CO2

**Special Protective Equipment:** Firefighters should wear protective clothing and self contained breathing apparatus.

**Fire Fighting Procedures:** Normal procedures. Do not allow fire fighting water to escape into waterways or sewers.

**Combustion Products:** Hydrogen cyanide, hydrogen chloride and hydrogen fluoride may form on burning.

**Unusual Fire/Explosion Hazards:** None known

## 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** Because of product form and packaging, possibilities of a spill are remote. However, should one occur, wear proper protective equipment (See Special Protective Equipment) and sweep up spill. Place in a container for disposal.

**Absorbents:** Due to product form, no absorbents should be necessary. If in liquid form, use clay granules, sawdust, dirt or equivalent.

**Incompatibles:** Strong acids or bases

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin or clothing. Wear appropriate chemical resistant gloves when handling the strips. Wash hands, face and arms thoroughly with soap and water after handling product. **Container Handling:** Non-refillable container. Do not reuse or refill this container. Do not reuse strips.

**Storage:** Store in a cool, dry place. Keep in original unopened package until ready to use. Storage area must be dry, well-lit, & well-ventilated. Do not store in direct sunlight. Do not store unused strips in anything but original package. Do not store unused strips near pesticides or other chemicals that could contaminate the strips and result in bee toxicity. Keep storage areas clean.

**Exposure Limits:** Not established  
**Ventilation:** Provide mechanical ventilation when handling  
**Personal Protective Equipment:** Wear appropriate chemical resistant gloves. All handlers must wear: Long-sleeved shirt and long pants, Shoes and socks, and chemical-resistant gloves. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Light golden colored, clear plastic strip, very low odor.  
**Boiling Point:** N/A  
**Melting Point:** N/A  
**Vapor Pressure (mm Hg):** Not determined  
**Vapor Density (Air = 1):** Not determined  
**Specific Gravity:** N/A  
**Bulk Density:** about 1.14 g/cc  
**Solubility:** None  
**Evaporation Rate:** N/A  
**pH:** N/A

## 10. STABILITY AND REACTIVITY

**Stability:** Stable  
**Reactivity:** Not reactive  
**Incompatibility w/Other Materials:** Strong oxidizing agents  
**Decomposition Products:** Hydrogen cyanide, hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide  
**Hazardous Polymerization:** Will not occur

## 11. TOXICOLOGICAL INFORMATION

### **ACUTE TOXICITY [Based on tau-fluvalinate]**

Acute oral toxicity: LD50 = 1402 mg/kg  
Acute dermal toxicity: LD50 >2000 mg/kg  
Acute inhalation: No data – tau-fluvalinate is viscous liquid with vapor pressure >1 X 10<sup>-7</sup> torr at 25°C  
Skin irritation: Mild or slight irritation  
Eye irritation: Moderate eye irritant  
Not a dermal sensitizer

### **CHRONIC TOXICITY [Based on tau-fluvalinate]**

Rats received tau-fluvalinate via gavage. No oncogenic potential was shown. The NOEL was 1 mg/kg/day.

Mice were fed diets containing tau-fluvalinate. With the exception of skin lesions, no compound-related toxicity was observed. No oncogenic potential was shown. The systemic NOEL was considered to be 20 mg/kg/day.

Dogs were treated with racemic tau-fluvalinate daily for six months. Vomiting and diarrhea occurred at 50 mg/kg/day and skin lesions at the 3 highest levels. The NOEL was determined to be 2 mg/kg/day.

### **DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on tau-fluvalinate]**

Rats were administered racemic tau-fluvalinate during presumed gestation. The developmental NOEL was 10 mg/kg/day. Skin lesions were observed at 100 ppm and above. Treatment-related mortality occurred at 500 and 1000 ppm. In the first generation, pup growth was inhibited at levels of 250 ppm and above during lactation. The NOEL was 20 ppm.

Rabbits were administered tau-fluvalinate during presumed gestation. Signs of maternal toxicity were anorexia, depression, and decreased body weights. The NOEL was 25 mg/kg/day.

### **MUTAGENICITY [Based on tau-fluvalinate]**

The weight of evidence suggests tau-fluvalinate is not a mutagen.

## **12. ECOLOGICAL INFORMATION**

### **ENVIRONMENTAL FATE [Active Ingredients Only]**

- Hydrolysis:** Main mechanism of dissipation at basic pH
- Photolysis:** Degraded rapidly in sunlight and artificial light
- Soil half life:** 6-15 days depending on soil type and oxygen
- Water solubility:** 0.002 mg/L at 25C

### **ECOTOXICITY [Active Ingredients Only]**

- Acute Toxicity:** fish LC50: rainbow trout 0.91 ug/L (96 hour study); bluegill 1.2 ug/L (96 hour study); sheephead minnow 1.5 ug/L (96 hour study)  
aquatic invertebrates LC50: Daphnia magna 0.94 ug/L (48 hour study); Mysid shrimp 0.1179 ug/L (96 hour study)

## **13. DISPOSAL CONSIDERATIONS**

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

## **14. TRANSPORT INFORMATION**

- DOT49CFR Description:** Not regulated as hazardous by D.O.T.
- Freight Classification:** Insecticide, NOI, other than poison in boxes. NMFC 1055050 sub 3 class 92.5

## **15. REGULATORY INFORMATION**

- CERCLA (Superfund):** Not regulated
- RCRA:** Not regulated

### **SARA 311/312 HAZARD CATEGORIES**

- Immediate Health:** Yes (irritant)
- Delayed Health:** No
- Fire:** No
- Sudden Pressure:** No
- Reactivity:** No

*The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.*