



# Safety Data Sheet

## 1. Identification of Product and Company

### 1.1 Product Identifier:

Isomate® PTB TT

### 1.2 Other Means of Identification:

U.S. EPA Registration Number: 53575-38

### 1.3 Recommended Uses and Restrictions on Use:

#### Recommended Uses:

This product contains the mixture of (E)-5-Decenyl acetate, (E)-5-Decen-1-ol and stabilizers. This product contains behavior modifying biochemicals (pheromones) that disrupts mating of peach twig borer.

Produced for agricultural use only.

#### Restrictions on use:

Any use not listed on the approved U.S. EPA pesticide label.

### 1.4 Details of the Supplier of the SDS:

Supplier:

Pacific Biocontrol Corporation

Address:

1831 NW Kings Blvd., Corvallis, OR 97330 U.S.A.

Phone:

1-360-571-2247 or 1-800-999-8805

Company URL:

[www.pacificbiocontrol.com](http://www.pacificbiocontrol.com)

### 1.5 Emergency Phone Numbers:

Medical:

Call Doctor or

Poison Control Center:

1-800-222-1222

Leak, Fire, Spill or Accident:

Call CHEMTREC

CHEMTREC (USA and Canada)

1-800-424-9300

CHEMTREC (International)

1-703-527-3887

## 2. Hazard Identification

### 2.1 Classification of the Mixture\*:

#### GHS Classification:

Skin irritation, category 2

Acute aquatic toxicity, category 1

\*Mixture of (E)-5-Decenyl acetate, (E)-5-Decen-1-ol and other ingredients

### 2.2 Label Elements

Refer to section 15.

### 2.3 Other Hazards

The product must be handled in accordance with its approved U.S. EPA pesticide label and instructions in this safety data sheet.

# Safety Data Sheet

## 3. Composition/Information on Ingredients

### 3.1 Description of the Mixture:

**Type of formulation:**

Pesticide product contains the mixture of (E)-5-Decenyl acetate, (E)-5-Decen-1-ol and other ingredients in plastic hand-applied pheromone dispenser.

Mode of Action: Mating disruption

**Ingredients:**

Identification name	(E)-5-Decenyl acetate*	(E)-5-Decen-1-ol*	Other Ingredients**
Common Name/ Synonyms	(E)-5-Decen-1-ol acetate	(E)-5-Decen-1-ol	no data
Chemical formula	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>	C <sub>10</sub> H <sub>20</sub> O	no data
Molecular weight	198.31	156.27	no data
CAS No.	38421-90-8	56578-18-8	no data
Concentration (wt%)	47.84%	2.92	

\*Component is a member of the well-characterized group of SCLPs, i.e., Straight Chain Lepidopteran Pheromones.

\*\*Other ingredients, which are maintained as trade secrets, are any substances other than the active ingredient contained in this product. They are non-hazardous, but their identities are withheld because they are considered trade secrets.

## 4. First-Aid Measures

### 4.1 Description of First Aid Measures:

**General Information:**

Persons using this product should consult a physician or other medical professional if an accident involving this product caused injury. Specific first-aid measures are as follows:

**Doctor or Poison Control Center (Hot Line Number):**

Have the product container or label with you when calling a poison control center or doctor or when going for treatment or seeking medical attention. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, call 1-800-999-8805, Monday through Friday, 9AM to 5PM (PST).

**If on Skin or Clothing:**

Remove contaminated clothing. Immediately rinse skin for 15-20 minutes using plenty of water. Contact a poison control center or doctor for treatment advice.

**If in Eyes:**

Immediately hold eyes open, slowly and gently rinse with water for 15-20 minutes. If wearing contact lenses, rinse eyes for 5 minutes, remove contact lenses, and continue rinsing. Contact a poison control center or doctor for treatment advice.

**First Aid Safeguards:**

Use protective gloves, or other protective equipment as required.

### 4.2 Symptoms (Acute and Delayed):

**Acute Effects:**

Skin: redness and cracking of the skin.

**Chronic Effects:** None known.

# Safety Data Sheet

## 5. Fire-Fighting Measures

### 5.1 Extinguishing Media:

**Suitable extinguishing media:**

Carbon dioxide, extinguishing powder, alcohol-resistant foam or nebulized water. Extinguishing large fires with water spray or alcohol-resistant foam.

**Unsuitable extinguishing media:**

The use of running water or high-volume water jet as a means of extinguishing is not recommended.

### 5.2 Special Hazards Arising from the Mixture:

Combustion or thermal decomposition can generate toxic vapors: carbon oxides and hydrocarbons. Their inhalation is very dangerous at high concentrations and/or in confined spaces.

### 5.3 Special Protective Equipment and Precautions for Fire-Fighters:

**Firefighting instructions:**

Use caution when fighting a chemical fire. Fight the flames from a distanced and safe position. Do not breathe fumes.

Cool closed containers exposed to fire. If possible, remove them from the fire site.

Collect extinguishing water that must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to current regulations.

**Protections during Firefighting:**

Always wear full fire protection equipment including mask with self-contained breathing apparatus and complete equipment consisting of helmet with visor and neck protection, fireproof jacket and trousers with bands around the arms and waist.

**Additional information:** Collect firefighting water separately. It must not enter drains.

## 6. Accidental Release Measures

This information applies only in the case that the foil packets are accidentally opened, and the plastic pheromone dispensers spill out. If the plastic pheromone dispensers are broken, due to the small amount of chemicals in the dispensers, a spill or leak of the chemicals is highly unlikely.

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures:

**Personal Precautions:**

Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes and socks, protective gloves and protective eyewear.

**For Those Who Do Not Intervene Directly:**

The following information is intended for properly trained personnel working where the product is normally used or stored and is intended to ensure, when possible, without risks, preliminary safety operations before leaving and awaiting the intervention of the emergency team.

Wear appropriate protective equipment: long-sleeved shirt and long pants or overalls, shoes and socks, protective gloves, glasses or protective eyewear, mouth covering and/or face mask. Avoid direct contact with skin, eyes or clothing.

# Safety Data Sheet

## 6. Accidental Release Measures continued

Evacuate the area. Ensure adequate ventilation and/or stop the accidental release if the operation does not involve risks. Eliminate all possible sources of ignition.

### **For Those Who Intervene Directly:**

The following information and the information relating to the methods and materials of containment and clean-up is intended for the experienced personnel who are part of the emergency team and specially trained.

Wear appropriate protective equipment: long-sleeved shirt and long pants or overalls, shoes and socks, protective gloves, glasses or protective eyewear, mouth covering and/or face mask. Avoid direct contact with skin, eyes or clothing.

Evacuate the area. Ensure adequate ventilation and/or stop the accidental release if the operation does not involve risks. Eliminate all possible sources of ignition. All equipment used during clean-up must be grounded.

### **Emergency Procedures;**

Avoid contact with skin, eyes or clothing.

Evacuate the area. Ensure adequate ventilation.

## 6.2 Methods and Materials for Containment and Clean-up:

### **For Containment:**

Stop the accidental release by sealing containers. Ensure adequate ventilation.

Use absorbent material (sand, diatomaceous earth, sawdust, clay, other non-combustible material), or absorbent cloths and mats to prevent spread of the accidental release. If possible, recover the product.

### **To Clean up:**

Collect the material and place it in closed and properly labeled chemical containers. Containers should be sealed and handled appropriately. Try not to create dust and clean the area with water after removing any residue. Rinse the equipment with water.

### **Environmental Precautions:**

Do not allow contaminated water to enter into drains or sewage systems.

Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes

Dispose of waste in accordance with federal and local environmental health and safety regulations.

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling:

#### **Precautions:**

Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes and socks, protective gloves and protective eyewear.

Measures to prevent fires: Store in the original packaging in a dry location at below 40°F or 4°C.

Measures to protect the environment: Store in the original container

# Safety Data Sheet

## 7. Handling and Storage continued

### 7.2 Conditions for Safe Storage, including any compatibilities:

Store in original unopened package in a dry location at temperatures below 40°F or 4°C. To prevent contamination with food or feed, store only unopened product packages in cold storage facilities that are used for food or feed.

## 8. Exposure Controls/Personal Protection

### 8.1 Exposure Limits:

Exposure limits (PEL, ACGIH, or TLV) are not available for any of the ingredients contained in the mixture. There are no known side effects resulting from the use of the product.

### 8.2 Appropriate Engineering Controls:

Appropriate engineering controls are not available for any of the ingredients contained in the mixture.

### 8.3 Individual Protection Measures:

#### Personal Protection Measures:

Use this product for its intended purpose as listed in section 1.2. Read the instructions on the product label carefully.

Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes and socks, protective gloves and protective eyewear.

#### Personal Protection Equipment:

**Hand Protection:** Protective gloves with material that is impermeable.

**Eye Protection:** Protective eyewear, such as goggles or face shield.

**Protective wear for skin and body:** Work clothing consisting of long-sleeve shirt, long pants, shoes and socks.

## 9. Physical and Chemical Properties

### Physical and Chemical Properties of (E)-5-Decenyl acetate and (E)-5-Decen-1-ol\*:

9.1 Physical state	Transparent liquid
9.2 Color	Light yellow
9.3 Odor (includes odor threshold)	Mild waxy and sweet
9.4 Melting point/freezing point	No information
9.5 Boiling point (or initial boiling point or boiling range)	114-116°C/2KPa
9.6 Flammability (Flame projection)	No information
9.7 Lower and upper explosion limit/flammability limit	No information
9.8 Flash point	107°C (Cleveland open cup)
9.9 Auto-ignition temperature	Not tested
9.10 Decomposition temperature	No information

# Safety Data Sheet

## 9. Physical and Chemical Properties continued

### Physical and Chemical Properties of (E)-5-Decenyl acetate and (E)-5-Decen-1-ol\*:

9.11 pH	5.8-8.0
9.12 Kinematic viscosity	3.18c.s. (Ubbelohde's method)
9.13 Solubility	Soluble in n-hexane, n-pentane, benzene, Toluene, methanol, ethanol, ether, acetone, methylene chloride, chloroform, acetonitrile, THF, DMF, acetic acid, etc. Insoluble in DMSO and ethylene glycol.
9.14 Partition coefficient n-octanol/water (log value)	more than 4 (log Po/w)
9.15 Vapor pressure (includes evaporation rate)	$3 \times 10^{-4}$ Pa (20°C)
9.16 Density and/or relative density (Specific gravity)	0.878-0.882 (20°) (pycnometer method)
9.17 Relative vapor density	Not required for authorization
9.18 Particle characteristics	Not applicable

\* Components are members of the well-characterized group of SCLPs (i.e., Straight Chain Lepidopteran Pheromones).

## 10. Stability and Reactivity

Use this product for its intended purpose as listed in section 1.2. Read the instructions on the product label carefully.

### Keep out of reach of children.

Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes and socks, protective gloves and protective eyewear.

### 10.1 Reactivity

Under normal and anticipated storage and handling conditions as labeled on the product, there is no particular danger of reaction with other substances.

### 10.2 Chemical Stability

The product is stable under normal and anticipated storage and handling conditions as labeled on the product and under the conditions as reported in Section 7. No hazardous reactions are expected from the use of the product as labeled.

### 10.3 Possibility of Dangerous Reactions

No particular risk of dangerous reactions under normal and anticipated storage and handling conditions as labeled on the product.

### 10.4 Incompatible Materials

Store in the original container. Store separately from oxidants, peroxides and acids.

### 10.5 Hazardous Decomposition Products

No hazardous decomposition products if stored according to the indicated provisions. Combustion and thermal decomposition can generate toxic vapors: carbon oxides and hydrocarbons.

# Safety Data Sheet

## II. Toxicology Information

Toxicology for of (E)-5-Decenyl acetate and (E)-5-Decen-1-ol\*:

Acute toxicity	Oral LD <sub>50</sub>	>5,000 mg/kg (Rats) >2,000 mg/kg (Rats)	SCLP*
	Dermal LC <sub>50</sub>	No Data	
	Inhalation (Gas)	>5 mg/l (Rats)	
Skin Corrosion/Irritation		Slight to moderate skin irritation (Rabbits)	
Serious eye damage/Eye Irritation		Slight to moderate (Rabbits)	
Respiratory or Skin sensitivity		No sensitizing effect known	
Mutagenicity		No Information	
Carcinogenicity	IARC	Not Listed	
	NTP	Not Listed	
	OSHA	Not Listed	
Ames Test		Not mutagenic in Ames test	
Reproductive toxicity		No Information	
STOST	Inhalation	No Information	
Aspiration hazard		No Information	

\* Components are members of the well-characterized group of SCLPs (i.e., Straight Chain Lepidopteran Pheromones).

## 12. Ecological Information

### 12.1 Ecotoxicity

No information

### 12.2 Persistence and Degradability

(E)-5-Decenyl acetate*	Rapidly degradable	SCLP
E)-5-Decen-1-ol*	Rapidly degradable	

### 12.3 Bioaccumulative Potential

(E)-5-Decenyl acetate*	Partition coefficient: n-octanol/water	log Pow: 5.0	SCLP
E)-5-Decen-1-ol*	Partition coefficient: n-octanol/water	log Pow: 4.1	

### 12.4 Mobility in Soil

No data available.

Exposure not likely.

### 12.5 Other Adverse Effects

None known.

\* Components are members of the well-characterized group of SCLPs (i.e., Straight Chain Lepidopteran Pheromones).

# Safety Data Sheet

## 13. Disposal Considerations

Use this product for its intended purpose as listed in section 1.2. Read the instructions on the product label carefully.

Do not contaminate water, food or feed when disposing of this product. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

Do not dispose of new or unused dispensers in or near streams or bodies of water.

Unused material that cannot be used according to label instructions must be disposed of according to local requirements. Dispose of empty dispensers in accordance with local requirements.

Nonrefillable container. Do not reuse or refill this container.

Dispose of empty foil packet in trash or in accordance with local requirements.

## 14. Transport Information

### Transportation:

<b>Description:</b>	Plastic hand-applied pheromone dispenser
<b>UN Number</b>	Not applicable – Not classified as dangerous
<b>Freight Class:</b>	CLASS 60
<b>Identification Numbers:</b>	NMFC# S155050-12
<b>Packing Group:</b>	Not applicable

### Flash Point of (E)-5-Decenyl acetate and (E)-5-Decen-1-ol:

Flash point is 107°C (not established for pheromone dispenser).

### Special Precautions for User:

Follow the precautions listed on this SDS and on the product label.

## 15. Regulatory Information

### U.S. EPA:

This is a pesticide product registered by the U.S. EPA and is subject to certain labeling requirements under Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required for Safety Data Sheets and for workplace labels of non-pesticide chemicals.

**The Hazards to Humans and Domestic Animals** statement on the pesticide label is as follows:

Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**The Environmental Hazards** statement on the pesticide label is as follows:

For terrestrial uses: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of this product.



# Safety Data Sheet

## 15. Regulatory Information continued

The pesticide label also includes other important information, including the First Aid, the Storage and Disposal and the Directions for Use statements.

**Isomate PTB TT** is registered with the U.S. EPA under EPA Registration Number 53575-38. This product is categorized under U.S. EPA Toxicity Category: III - CAUTION.

## 16. Other Information

These data are based on our current knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship:

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*This safety data sheet is offered solely for your information, consideration and investigation. The data described in this SDS consist of data on literature, our acquisition data and analogical inference by data of similar chemical substances or products. Pacific Biocontrol provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. Final determination of suitability of any material is the sole responsibility of the user.*

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