



## SAFETY DATA SHEET

### SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAME: CheckMate® PTB-F

SYNONYMS: Peach twig borer flowable.

USE: CheckMate® PTB-F is a sprayable aqueous suspension of microbead dispensers each encapsulating the synthesized sex pheromone of the peach twig borer (*Anarsia lineatella*). The product is used in agriculture to control populations of this pest via mating disruption.

COMPANY IDENTIFICATION: Suterra LLC  
20950 NE Talus Place  
Bend, Oregon 97701  
U.S.A.  
TEL: (541) 388-3688  
FAX: (541) 388-3705

EMERGENCY TELEPHONE NUMBERS:

LEAK, FIRE, SPILL, OR ACCIDENT: (800) 424-9300 (CHEMTREC – U.S.A. & CANADA)  
(703) 527-3887 (CHEMTREC – Collect - All Other Countries)

MEDICAL: Call Doctor, Poison Control Center or (541) 388-3688

### SECTION II – HAZARDS IDENTIFICATION

The following determinations have been made according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals:



GHS Signal Word: WARNING

GHS Symbols:

**GHS Hazard Statements:**

Harmful if inhaled  
Causes skin irritation  
Causes eye irritation

**GHS Precautionary Statements:**

Avoid breathing vapor. Use only outdoors or in a well ventilated area.  
Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.  
Use protective gloves, protective garments and eye protection to prevent excessive skin or eye contact when handling.

**GHS Response Statements**

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a Poison Control Center or doctor for advice if you feel unwell. Specific treatment: Refer to Section IV of this SDS.

If on skin or clothing: Take off contaminated clothing and wash before reuse. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for advice if you feel unwell, or if skin irritation occurs.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**SECTION III - COMPOSITION**

PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA	APPROXIMATE W/W %
(E)-5-Decen-1-yl Acetate	38421-90-8	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>	14
(E)-5-Decen-1-ol	56578-18-8	C <sub>10</sub> H <sub>20</sub> O	4
Water	7732-18-5	H <sub>2</sub> O	>75

**SECTION IV – FIRST AID MEASURES****EYE**

**CONTACT:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if worn after the first five minutes and continue rinsing. Call a doctor or Poison Control Center for advice.

**SKIN**

**CONTACT:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a doctor or Poison Control Center for advice.

**INHALATION:**

Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth if possible. Call a doctor or Poison Control Center for further treatment advice.

**INGESTION:**

Call a doctor or Poison Control Center 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 a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

SECTION V – FIREFIGHTING MEASURES			
FLASH POINT (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
Not established for formulation. 93° C for PTB pheromone blend.	Not established.	Not established.	Not established.
EXTINGUISHING MEDIA: Not applicable. Formulation is ~ 75% water.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.			
ADVICE FOR FIREFIGHTERS: Evacuate area of all unnecessary personnel. Use standard fire fighting procedures.			
SECTION VI – ACCIDENTAL RELEASE MEASURES			
Wear protective gloves, clothing and eye protection. Contain spill by diking. Use absorbent and shovel into a clean container. Protect from ignition. Keep out of water sources or sewers.			
SECTION VII – HANDLING AND STORAGE			
Store in a cool, well ventilated area until used. Protect from freezing. Protect from ignition. Wear protective equipment described in Section VIII. Avoid skin and eye contact. Avoid breathing vapors. Wash hands after handling. Do not allow product to contaminate water sources, food or feed. Provide means of controlling spills.			
SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION			
EXPOSURE LIMIT VALUES			
RECOMMENDED EXPOSURE LIMITS: None established.			
LISTED AS CARCINOGEN BY NTP, IARC, OR OSHA: No.			
OTHER HEALTH EFFECTS: No known adverse effects expected.			
HEALTH HAZARD CATEGORIES: EPA Toxicity Category: III - CAUTION.			
EFFECTS OF OVEREXPOSURE			
EYE CONTACT:	Minimally irritating for the active ingredient pheromone blend. Avoid contact with eyes. Due to product form significant exposure is not expected.		
SKIN CONTACT:	Moderately irritating for the attractant. Avoid contact with eyes. Due to product form significant exposure is not expected.		
INHALATION:	Avoid breathing vapors when in confined areas.		
INGESTION:	Due to product form ingestion is not considered likely. May cause upset stomach in large doses.		
CHRONIC:	Long-term studies have not been done on the concentrated active ingredient, however, no adverse effects expected from use of product.		

EXPOSURE CONTROLS	
RESPIRATORY PROTECTION:	Not generally required under normal use conditions.
PROTECTIVE GLOVES:	Wear protective gloves to prevent skin contact.
EYE PROTECTION:	Wear eye protection to prevent contact with eyes.
OTHER PROTECTIVE EQUIPMENT:	Use protective garments to prevent excessive skin contact.
VENTILATION:	None required under normal use conditions.
NOTE:	Personal protection information provided in this Section is based upon label information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.
SECTION IX –PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	Solid microcapsules containing PTB pheromone blend in aqueous suspension.
ODOR	Faint, fruity odor.
MOLECULAR WEIGHT	Not applicable for end-use formulation. For pheromone active ingredients: (E)-5-Decenyl Acetate ~ 198; (E)-5-Decenol ~ 156
pH	Not established.
SOLUBILITY IN WATER	Not applicable for end-use product which consists of microcapsules in an aqueous suspension. For active ingredient pheromones: E-5-Decenyl Acetate = 6.732ppm ± 0.888 ppm; E-5-Decenol = 33.172 ppm ± 2.745 ppm.
BOILING POINT	Not established for end-use formulation. 60.3 °C @ 0.710 mm Hg for pheromone blend.
MELTING POINT	Not established for end-use formulation. PTB pheromone blend is a liquid at room temperature.
FLASH POINT	Not established for end-use formulation. 93°C for PTB pheromone blend.
FLAMMABILITY	Not established.
SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	0.97 for end-use formulation. 0.877 for PTB pheromone blend.
EXPLOSIVE PROPERTIES	Not established
OXIDIZING PROPERTIES	Contains no oxidizing/reducing agents.
SECTION X – STABILITY AND REACTIVITY DATA	
STABILITY:	The product is stable. No dangerous reactions are known or expected from the use of the formulation as labeled.
INCOMPATIBILITY:	None. Formulation is stable to heat and UV-light as packaged. Formulation will degrade in the presence of strong oxidizing agents and oxygen.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides formed when burned.
HAZARDOUS POLYMERIZATION:	Will not occur.

## SECTION XI – TOXICOLOGICAL INFORMATION

Due to the formulation type, no studies have been performed on the end-use product. Information on the pheromone active ingredient is reported here:

### Peach Twig Borer (PTB) Pheromone:

LD <sub>50</sub> , Oral, Rat:	> 5,050 mg/kg
LD <sub>50</sub> , Dermal, Rat:	> 2,050 mg/kg
LC <sub>50</sub> , Inhalation, Rat:	> 2 mg/Kg (Intratracheal)
Eye Irritation, Rabbit:	Slightly irritating
Skin Irritation, Rabbit:	Moderately irritating
Skin Sensitization, Guinea Pig:	Negative, not a sensitizer
Mutagenicity (in vivo & in vitro):	Negative
Carcinogenicity:	No data found
Reproductive toxicity:	No data found
Target organ toxicity:	No data found

## SECTION XII – ECOLOGICAL INFORMATION

Due to the formulation type, no studies have been performed on the end-use product. Information on the pheromone active ingredient is reported here:

### Peach Twig Borer (PTB) Pheromone:

LD <sub>50</sub> , Bobwhite Quail:	> 2050 mg/Kg
EC <sub>50</sub> , Freshwater fish, 96 hour:	> 2.2 mg/L
EC <sub>50</sub> , Aquatic Invertebrate, 48 hour:	1.9 mg/L

## SECTION XIII – DISPOSAL CONSIDERATIONS

### ENVIRONMENTAL HAZARDS / WASTE DISPOSAL:

DO NOT contaminate water, food, or feed by storage and disposal.

For terrestrial uses. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment washwater. Dispose of in accordance with local, state, and federal regulations.

### CONTAINER DISPOSAL:

Nonrefillable container. Do not reuse or refill this container. Plastic Containers: Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container 1/4 full with water and recap. Shake 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and or dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

## SECTION XIV – TRANSPORT INFORMATION

### TRANSPORT BY GROUND:

Description: Solid microcapsules containing pheromone in an aqueous suspension.  
Hazard Class: DOT - Not applicable – Not classified as dangerous.  
Identification Numbers: Unclassified.  
Packing Group: Not applicable.  
Flashpoint: Not established for end-use formulation. Formulation is >75% water.  
93°C for PTB pheromone blend.

### TRANSPORT BY SEA:

Description: Solid microcapsules containing pheromone in an aqueous suspension.  
Hazard Class: IMDG - Not applicable – Not classified as dangerous.  
Identification Numbers: Unclassified.  
Packing Group: Not applicable.  
Flashpoint: Not established for end-use formulation. Formulation is >75% water.  
93°C for PTB pheromone blend.

### TRANSPORT BY AIR:

Description: Solid microcapsules containing pheromone in an aqueous suspension.  
Hazard Class: IATA - Not applicable – Not classified as dangerous.  
Identification Numbers: Unclassified.  
Packing Group: Not applicable.  
Flashpoint: Not established for end-use formulation. Formulation is >75% water.  
93°C for PTB pheromone blend.

## SECTION XV – REGULATORY INFORMATION

**REGULATORY LICENSE:** This chemical is a pesticide product registered by the U.S. EPA and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDSs), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including the Directions for Use.

**Caution:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Harmful if inhaled. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE):** Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

U.S. EPA Registration Number 56336-41  
Product is categorized under U.S. EPA Toxicity Health Hazard Category III-IV –  
CAUTION.

## SECTION XVI – OTHER INFORMATION

While this information and recommendations set forth are believed to be accurate as of the date hereof, Suterra LLC makes no warranty with respect hereto and disclaims all liability from reliance thereon.