




SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY	
TRADE NAME:	CheckMate® SF Dispenser
SYNONYMS:	Combination Oriental Fruit Moth (OFM) / Peach Twig Borer (PTB) mating disruption dispenser
USE:	CheckMate SF Dispenser is a pheromone containing hand-applied product for the control of the oriental fruit moth (<i>Grapholita molesta</i>) and the peach twig borer (<i>Anarsia lineatella</i>). The product is used in agriculture to control populations of these pests 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
2. HAZARDS IDENTIFICATION	
The following determinations have been made according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals:	
<u>GHS Signal Word:</u>	WARNING
<u>GHS Symbols:</u>	

GHS Hazard Statements:

Harmful if inhaled
Causes eye irritation
Causes skin 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 and protective garments to prevent excessive skin 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.

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.

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.

3. COMPOSITION

PRINCIPAL COMPONENT(S)	CAS NO.	APPROXIMATE W/W %
(Z)-8-dodecen-1-yl acetate	28079-04-1	8.06
(E)-8-dodecen-1-yl acetate	38363-29-0	0.52
(Z)-8-dodecen-1-ol	40642-40-8	0.09
(E)-5-decen-1-yl acetate	38421-90-8	8.34
(E)-5-decen-1-ol	56578-18-8	1.73

Other Ingredients:

Other ingredients, which are maintained as trade secrets, are any substances other than an 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

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment.

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 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.

5. FIREFIGHTING MEASURES			
FLASH POINT (Method Used)	FLAMMABLE LIMITS (% by Volume in Air)	LEL	UEL
Not established for formulation. 230°F for OFM pheromone blend. 199°F (93°C) for PTB pheromone blend.	Not established.	Not established.	Not established.
EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide (CO ₂)			
UNUSUAL FIRE AND EXPLOSION HAZARDS: Carbon oxides formed when burned.			
ADVICE FOR FIREFIGHTERS: Evacuate area of all unnecessary personnel. Collect the water used to extinguish the fire and avoid release in the sewage system. Use standard fire-fighting procedures.			
6. ACCIDENTAL RELEASE MEASURES			
6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin. Use protective gloves when handling the dispensers and handle in a well-ventilated area.			
6.2 Environmental precautions Avoid release to the environment. Keep away from drainage system, surface and ground water. Prevent infiltration of water sources and sewers.			
6.3 Methods and material for containing and cleaning up Contain the dispersion. Use absorbent material and remove in a clean container. Wastes should be disposed according to current legislation.			
7. HANDLING AND STORAGE			
Wear protective equipment described in Section 8. Avoid skin and eye contact. Avoid breathing vapors. Store in its original container in a cool, well ventilated area. Protect from ignition. Wash hands after handling. Do not allow product to contaminate water sources, food or feed.			
8. 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:	Pheromone is minimally irritating. Avoid contact of eyes with dispenser membrane.		
SKIN CONTACT:	Pheromone is moderately irritating. Avoid contact of skin with dispenser membrane.		
INHALATION:	May cause transient irritation. Avoid breathing vapors when in confined areas.		
INGESTION:	Due to product form ingestion is not considered likely.		

CHRONIC:	No adverse effects are expected.
EXPOSURE CONTROLS	
RESPIRATORY PROTECTION:	Do not breathe vapor. No type of specific protective equipment is required.
PROTECTIVE GLOVES:	Use protective gloves when handling dispensers.
EYE PROTECTION:	Avoid contact with eyes.
OTHER PROTECTIVE EQUIPMENT:	None required under normal use conditions.
VENTILATION:	For outdoor use. If indoors, use adequate ventilation.
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.
9. PHYSICAL AND CHEMICAL PROPERTIES	
APPEARANCE	Plastic hand-applied dispenser.
ODOR	Mild, herbaceous, fruity odor.
MOLECULAR WEIGHT	Not applicable for end-use dispenser.
pH	Not established.
SOLUBILITY IN WATER	Not applicable to end-use dispenser.
BOILING POINT	Not applicable to end-use dispenser.
MELTING POINT	Not applicable for end-use dispenser.
FLASH POINT	Not applicable for end-use dispenser.
FLAMMABILITY	Not applicable for end-use dispenser.
SPECIFIC GRAVITY (H ₂ O = 1)	0.88 ± 0.01 for OFM pheromone active ingredient. 0.88 ± 0.01 for PTB pheromone active ingredient.
EXPLOSIVE PROPERTIES	Not applicable for end-use dispenser.
OXIDIZING PROPERTIES	Not applicable for end-use dispenser.
10. STABILITY AND REACTIVITY DATA	
STABILITY:	The product is stable. No dangerous reactions are expected from the use of the product as labeled. Pheromone is sensitive to heat and light.
INCOMPATIBILITY:	Pheromone to strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon oxides formed when burned.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

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

Oriental Fruit Moth (OFM) Pheromone Blend:

LD ₅₀ , Oral, Rat:	> 5050 mg/kg
LD ₅₀ , Dermal, Rabbit:	> 5050 mg/kg
LD ₅₀ , Intratracheal, Rat:	> 2 mg//L
Eye Irritation, Rabbit:	Mildly irritating.
Skin Irritation, Rabbit:	Moderately irritating.
Ames Mutation Assay:	Negative.

Peach Twig Borer (PTB) Pheromone Blend:

LD ₅₀ , Oral, Rat:	> 5050 mg/kg.
LD ₅₀ , Dermal, Rabbit:	> 2050 mg/kg.
LD ₅₀ , Intratracheal, Rat:	> 2 mg/L.
Eye Irritation, Rabbit:	Slightly irritating.
Skin Irritation, Rabbit:	Moderately irritating.
Ames Mutation Assay:	Non-mutagenic and without microsomal activation.
Sensitization, Guinea Pig:	Negative.

12. ECOLOGICAL INFORMATION

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

Oriental Fruit Moth (OFM) Pheromone Blend:

Acute Avian LD ₅₀ Bobwhite Quail:	> 2050 mg/kg
Acute Fish 96 Hour LC ₅₀ Rainbow Trout:	> 0.99 mg/L
Aquatic Invertebrate 48 Hour EC ₅₀ <i>Daphnia</i>	> 100 mg/L

Peach Twig Borer (PTB) Pheromone Blend:

Acute Avian LD ₅₀ Bobwhite Quail:	> 2050 mg/kg.
Acute Fish 96 Hour LC ₅₀ Rainbow Trout:	> 2.2 mg/L.
Aquatic Invertebrate 48 Hour EC ₅₀ <i>Daphnia</i>	= 1.9 mg/L.

13. DISPOSAL CONSIDERATIONS

ENVIRONMENTAL HAZARDS:

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.

USED DISPENSER AND CONTAINER DISPOSAL:

Used dispensers should be discarded in trash.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

14. TRANSPORT INFORMATION

TRANSPORT BY GROUND:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: DOT – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser. 230°F for OFM pheromone active ingredient.
199°F (93°C) for PTB pheromone blend

TRANSPORT BY SEA:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: IMDG – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser. 230°F for OFM pheromone active ingredient.
199°F (93°C) for PTB pheromone blend

TRANSPORT BY AIR:

Description: Plastic hand-applied pheromone dispenser.
Hazard Class: IATA – Not classified as dangerous.
Identification Numbers: Unclassified.
Packing Group: Not applicable.
Flashpoint: Not established for end-use dispenser. 230°F for OFM pheromone active ingredient.
199°F (93°C) for PTB pheromone blend.

15. REGULATORY INFORMATION

This product is a pesticide 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, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse. Wear chemical resistant gloves and protective eyewear.

U.S. EPA Registration Number 56336-27

Product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION

16. 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.

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Preparer: R. Trager