

SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAME: CheckMate® TPW-F

SYNONYMS: Sprayable TPW mating disruption formulation

USE: CheckMate TPW-F is a sprayable aqueous suspension of microbead dispensers each

encapsulating the synthesized sex pheromone of the tomato pinworm (Keiferia

lycopersicella). 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

None of the ingredients of this material meet the definition of "Hazardous Chemical" given in OSHA Hazard Communication Regulation 29 CFR 1910.1200(c). The information on this form is furnished as a customer service.

SECTION III - COMPOSITION

PRINCIPAL COMPONENT(S)	CAS NO.	CHEMICAL FORMULA
E-4-Tridecen-1-yl acetate	72269-48-8	$C_{15}H_{28}O_2$
Z-4-Tridecen-1-yl acetate	65954-19-0	$C_{15}H_{28}O_2$
Water	7732-18-5	H ₂ O

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 FLAMMABLE LIMITS LEL UEL

(Method Used) (% by Volume in Air)

Not established for Not established. Not established. Not established.

formulation.

> 230°F for TPW pheromone

blend.

EXTINGUISHING MEDIA:

Not applicable. Formulation is ~73% 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

In case material is released or spilled: Contain spill by diking. Use absorbent and shovel into a clean container.

Environmental hazards/waste disposal: Do not contaminate water sources. Dispose of at approved waste disposal facility.

SECTION VII - HANDLING AND STORAGE

Wear protective equipment described in Section VIII. Avoid skin and eye contact. Avoid breathing vapors. Handling:

Wash hands after handling. Launder contaminated clothing before reuse. Do not allow product to

contaminate water sources, sewers, food or feed.

Storage: Store in cool, well ventilated area until used. Protect from freezing.

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:	Pheromone is m	none is mildly irritating.		
SKIN CONTACT:	Pheromone is m	is moderately irritating.		
INHALATION:	Avoid breathing	ing vapors when in confined areas.		
INGESTION:	Due to product	duct form ingestion is not considered likely. May cause upset stomach in large doses.		
CHRONIC:	_	studies have not been done on the concentrated active ingredient, however, no adverse ected from use of product.		
EXPOSURE CONTROLS				
RESPIRATORY PROTECTION:	Not generally required under normal use conditions.			
PROTECTIVE GLOVES:	Applicators and other handlers must wear waterproof protective gloves.			
EYE PROTECTION:	Wear protective eyewear.			
OTHER PROTECTIVE EQUIPMENT:	Not generally reheadgear.	Not generally required under normal use conditions. For overhead exposure wear chemical resistant neadgear.		
VENTILATION:	Use adequate ve	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.			
	SECTION 1	IX -PHYSICAL AND CHEMICAL PROPERTIES		
APPEARANCE		Solid microcapsules containing pheromone in aqueous suspension.		
ODOR		Faint, oily odor.		
MOLECULAR WEIGHT		Not established for end-use formulation. 480 for TPW pheromone blend.		
рН		Not established.		
SOLUBILITY IN WATER		Not applicable for end-use product which consists of microcapsules in an aqueous suspension. Low solubility for TPW pheromone blend.		
BOILING POINT		Not established for end-use formulation. 120°C @ 0.99 mmHg for E-4-Tridecen-1-yl acetate. 120°C @ 1.03 mmHg for Z-4-Tridecen-1-yl acetate.		
MELTING POINT		Not applicable for end-use formulation. > 0 °C for TPW pheromone blend.		
FLASH POINT		Not established for end-use formulation. > 230°F for TPW pheromone blend.		
FLAMMABILITY		Not established.		
SPECIFIC GRAVITY (H ₂ O = 1)		Not established for end-use formulation. 0.876 ± 0.01 for TPW pheromone blend.		
EXPLOSIVE PROPERTIES		Not established.		
OXIDIZING PROPERTIES		Not established.		

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 about the pheromone active ingredient is reported here:

Tomato Pinworm (TPW) Pheromone Blend:

 LD_{50} , Oral, Rat: > 5050 mg/kg LD_{50} , Dermal, Rabbit: > 5050 mg/kg

 LD_{50} , Intratrachael, Rat: > 450 mg/Kg or > 5 mg/L

Eye Irritation, Rabbit: Mildly irritating in unwashed eye, minimally irritating in washed eye.

Skin Irritation, Rabbit: Moderately irritating.

Ames Mutation Assay: Negative.

SECTION XII – 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:

Tomato Pinworm (TPW) Pheromone Blend:

 $\begin{array}{lll} \mbox{Acute Avian LD_{50} Bobwhite Quail:} & > 2050 \ \mbox{mg/kg} \\ \mbox{Acute Fish 96 Hour LC_{50} Rainbow Trout:} & > 100 \ \mbox{mg/L} \\ \mbox{Aquatic Invertebrate 48 Hour EC_{50} Daphnia} & > 100 \ \mbox{mg/L} \\ \end{array}$

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. <u>Plastic Containers</u>: 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: Not applicable – Not classified as dangerous.

Identification Numbers: Unclassified. Packing Group: Not applicable.

Flashpoint: Not established for end-use formulation. Formulation is ~ 73% water.

>230°F for TPW pheromone blend.

TRANSPORT BY AIR:

Description: Solid microcapsules containing pheromone in an aqueous suspension.

Hazard Class: Not applicable – Not classified as dangerous.

Identification Numbers: Unclassified. Packing Group: Not applicable.

Flashpoint: Not established for end-use formulation. Formulation is ~ 73% water.

>230°F for TPW 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, inhaled, 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.

This product is registered with the U.S. EPA under EPA Reg. No. 56336-21. The product is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION. The product is also registered for sale in Mexico.

SECTION XVI – OTHER INFORMATION

Suterra LLC is unaware of any local, state or federal regulations which define the active ingredient as hazardous. As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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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Supersedes: 02/12/2013

Preparer: T. Tipton