



SAFETY DATA SHEET

SECTION I – IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

TRADE NAME: **CheckMate® VMB-F**

SYNONYMS: Liquid VMB mating disruption formulation.

USE: CheckMate® VMB-F is a pheromone-containing product for the control of the Vine Mealybug (*Planococcus ficus*). The product is used in agriculture to control this pest insect 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.	APPROXIMATE W/W%
Lavandulyl senecioate	23960-07-8	19.35
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.		80.65

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 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
Product is non-flammable. For active ingredient pheromone: 129 °C (closed cup)	Not established.	Not established.	Not established.
EXTINGUISHING MEDIA: Suitable extinguishing agents: dry chemical, foam, carbon dioxide (CO ₂).			
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 approved protective gloves 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 its original container in a cool, dry, 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: Pheromone is mildly irritating. Avoid contact with eyes.			
SKIN CONTACT: Pheromone is mildly irritating. Avoid contact with skin.			
INHALATION: May cause transient irritation. Avoid breathing vapors when in confined areas.			
INGESTION: Due to product form, ingestion is not considered likely. May cause upset stomach in large doses. Avoid ingesting product.			
CHRONIC: Long-term studies have not been completed. However, no adverse effects are expected			
EXPOSURE CONTROLS			
RESPIRATORY PROTECTION: Do not breathe vapors. No type of specific protection is required.			

PROTECTIVE GLOVES:	Wear protective gloves to prevent skin contact.
EYE PROTECTION:	Wear eye protection to prevent contact with eyes.
SKIN PROTECTION:	Wear protective garments to prevent excessive skin contact.
VENTILATION:	Use outdoors. If handled indoors, provide adequate ventilation.
OTHER PROTECTIVE EQUIPMENT:	Not 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 in an aqueous suspension.
ODOR	Slight burnt, oily odor for pheromone active ingredient
MOLECULAR WEIGHT	Not applicable for the product.
pH	Not applicable for the product.
SOLUBILITY IN WATER	Not applicable for the product. Product is greater than 75% water.
BOILING POINT	Not applicable for the product.
MELTING POINT	Not applicable for the product. Product is greater than 75% water.
FLASH POINT	Not applicable for the product.
FLAMMABILITY	Not established.
SPECIFIC GRAVITY (H ₂ O = 1)	0.98 g/cm ³ for the product.
VAPOR PRESSURE	Not established for end-use formulation. 12.75 mmHg @ 20°C for pheromone active ingredient
EXPLOSIVE PROPERTIES	Not applicable for the product..
OXIDIZING PROPERTIES	Not applicable for the product.
SECTION X – STABILITY AND REACTIVITY DATA	
STABILITY:	The product is stable. No hazardous reactions are expected from the use of the product as labeled.
INCOMPATIBILITY:	Acids, peroxides and other strong oxidizing agents. Product is stable to heat and light as packaged. Product will degrade in the presence of strong oxidizers 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 product.
Information on the pheromone active ingredient is reported here:

Vine Mealybug (VMB) Pheromone:

LD ₅₀ , Oral, Rat:	> 5,000 mg/kg
LD ₅₀ , Dermal, Rat:	> 5,000 mg/kg
LC ₅₀ , Inhalation, Rat:	> 5.21 mg/L
Eye Irritation, Rabbit:	Minimally irritating
Skin Irritation, Rabbit:	Moderately irritating
Skin Sensitization, Guinea Pig:	Negative, not a sensitizer
Mutagenicity (in vivo & in vitro):	All test results 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 product.
Information on the pheromone active ingredient is reported here:

Vine Mealybug (VMB) Pheromone:

EC ₅₀ , Freshwater fish, 96 hour:	> 100 mg/L
EC ₅₀ , Aquatic Invertebrate, 48 hour:	8.9 mg/L
EC ₅₀ , Algal Inhibition, 96 hour:	53.3 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. 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 ¼ 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 dispose of in a sanitary landfill 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: Not classified.
Packing Group: Not applicable.
Flashpoint: Not established for product. Formulation is > 75% water.

TRANSPORT BY SEA:

Description: Solid microcapsules containing pheromone in an aqueous suspension.
Hazard Class: IMDG - Not applicable – Not classified as dangerous.
Identification Numbers: Not classified.
Packing Group: Not applicable.
Flashpoint: Not established for product. Formulation is > 75% water.

TRANSPORT BY AIR:

Description: Solid microcapsules containing pheromone in an aqueous suspension.
Hazard Class: IATA - Not applicable – Not classified as dangerous.
Identification Numbers: Not classified.
Packing Group: Not applicable.
Flashpoint: Not established for product. Formulation is > 75% water.

SECTION XV – 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 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: 56336-67

Product is anticipated to be categorized under U.S. EPA Toxicity Health Category III - 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.

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