

SECTION 1: IDENTIFICATION

1.1 Product identifier

Trade Name: **CheckMate® VMB-O** (CheckMate® VMB-OA, Depur)

Product form: mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

CheckMate® VMB-O 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.

Plant protection product for professional use only.

Uses advised against: Uses not listed on the label.

Reasons for use advised against: Product for agricultural use only, any other use is not recommended.

1.3 Details of the supplier of the safety data sheet

Suterra LLC

20950 NE Talus Place

Bend, Oregon 97701 (U.S.A.)

TEL: (541) 388-3688

FAX: (541) 388-3705

1.4 Emergency telephone number

EMERGENCY TELEPHONE NUMBERS: 1-866-326-6737

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 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

In consideration of the product formulation and characteristics the proposed classification is:

Skin sensitization, Category 1B, H317

Hazardous to the aquatic environment — Chronic hazard, Category 3, H412

2.2 Labels elements

This product is registered under the USA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The FIFRA label elements are presented within Section 15 of this SDS.

The OSHA HazCom 2012 label elements presented are consistent for chemicals in the workplace. The USA EPA recognizes that conflicts between FIFRA labels and the labels of other chemicals in the workplace could mislead workers about hazards, in some instances perhaps creating the impression that pesticides are less hazardous when they are not. Confusion due to inconsistent labeling could result in increased risks to works. Workers should review and follow the hazards and risk management statements on the FIFRA label.

GHS-US Classification

Hazard pictograms and signal words:



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Hazard Statements

H317 May cause an allergic skin reaction

H412 It can be harmful to aquatic organisms with long-lasting effects

Precautionary Statements:

P261 Avoid breathing vapors.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear eye and face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see instructions on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to national regulations

2.3 Other hazards

The mixture does not meet the criteria for PBT or vPvB.

The substances contained in the product do not meet the criteria to be identified as endocrine disruptors according to Regulation (EU) 2017/2100.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Not applicable. The product is not a substance or nanoform.

3.2 Mixtures

Name	CAS n.	Content* % w/w
<i>Lavandulyl senecioate</i>	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

* The exact percentage of the composition has been withheld as a trade secret

SECTION 4: FIRST-AID MEASURES**4.1 Description of first aid measures**

IF INHALED: 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.

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

IF IN EYES: Hold eye(s) 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.

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IF SWALLOWED: 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.

4.2 Most important symptoms and effects, both acute and delayed

If eye and skin irritation occur, get medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

None required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: dry chemical, foam, carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Carbon oxides formed when the product is burned.

5.3 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 firefighting procedures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Avoid inhalation of spray mist. Wear protective gloves, clothing and eye protection. Use absorbent and shovel into a clean container.

6.2 Environmental precautions

Avoid release to the environment. Keep away from drainage system, surface and ground water. Contain spill by diking. 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.

6.4 Reference to other sections

Please, refer to section 8 and to section 13 for further information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear protective clothing as described in section 8, if justified by exposure conditions. Avoid skin and eye contact. Avoid breathing vapor. Wash hands after handling. Do not allow product to contaminate water sources, food or feed. Provide means of controlling spills.

7.2 Conditions for safe storage, including any incompatibility

Store in its original container in a cool, dry and well-ventilated area until used. Protect from freezing. Protect from ignition.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Exposure limits are not available for any of the substances contained in the mixture. There are no known side effects resulting from the use of the finished product.

8.2 Exposure controls

Personal protection information provided in this section is based upon general information as to normal uses and conditions.

Individual protection measures, such as personal protective equipment (professional user)

Eye/face protection:	Avoid contact with eyes. Wear eye protection to prevent contact with eyes.
Hand protection:	Wear protective gloves to prevent skin contact.
Skin protection:	Avoid contact with skin. Wear protective garments to prevent excessive skin contact.
Respiratory protection:	Do not breathe vapors. No type of specific protective equipment is required.

Environmental exposure controls

Avoid release to the environment. Do not contaminate water with the product or the container. Do not reuse the empty containers that must be disposed according to the national regulation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

a) Appearance:	Solid microcapsules in an aqueous suspension.
b) Odour:	Slight burnt, oily odor for pheromone active ingredient.
c) Odour threshold:	None
d) pH:	Not applicable for the product.
e) Melting point/freezing point:	Not applicable for the product. Product is >75% water.
f) Initial boiling point and boiling range:	Not applicable for the product.
g) Flash point:	Not applicable for the product.
h) Evaporation rate:	Not established for the product.
i) Flammability (solid, gas):	Not established for the product.
j) Upper/lower flammability or explosive limits:	Not available.
k) Vapour pressure:	Not established for end-use formulation. 12.75 mmHg @ 20°C for pheromone active ingredient
l) Vapour density:	Not established for the product.
m) Relative density:	Not established for the product.
n) Solubility(ies):	Not applicable for the product. Product is >75% water.
o) Partition coefficient n-octanol/water:	Not applicable for the product.
p) Auto-ignition temperature:	Not established for the product.
q) Decomposition temperature:	Not established for the product.
r) Viscosity:	Not applicable for the product.
s) Explosive properties:	Not applicable for the product.
Oxidizing properties:	Not applicable for the product.

9.2 Other information

No additional information is reported.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity reactions are known or expected to occur as to normal uses conditions. No hazardous reactions are expected.

10.2 Chemical stability

The product is stable in the recommended storing conditions and for the use under the conditions reported in the label.

10.3 Possibility of hazardous reactions

No hazardous reactions are known or expected for use according to label instructions.

10.4 Conditions to avoid

Avoid direct sunlight. Avoid contact with excessive heat, sparks or open flames.

10.5 Incompatible materials

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.

10.6 Hazardous decomposition products

Carbon oxides are formed when the product is burned (in case of fire). No hazardous polymerization will occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Due to the formulation type, no studies have been performed on the end-use product. The toxicity of the preparation derives from the toxicity of the active substances.

The toxicity of the preparation is derived from the toxicity of the active substance. The data in this section therefore refer to the active substance, *Lavandulyl senecioate*.

a) Acute toxicity

LD ₅₀ Acute oral toxicity (rat):	> 5000 mg/kg body weight
LD ₅₀ Acute dermal toxicity (rabbit):	> 5000 mg/kg body weight
LC ₅₀ Inhalative toxicity (rat):	> 5.21 mg/l air/4h

b) Irritation

Eye irritation:	Non-irritant
Skin irritation:	Non-irritant

c) Corrosiveness

Non-corrosive

d) Sensitisation

Skin sensitisation:	Not sensitising
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e) Repeated dose toxicity:

Repeated or long-term exposure not relevant

f) Carcinogenicity:

Not relevant, exposure does not exceed natural background levels

g) Mutagenicity:

No genotoxic effect

h) Reproductive toxicity:

Not relevant, exposure does not exceed natural background levels.

11.2 Information on other hazards**11.2.1. Endocrine disrupting properties**

As stated in section 2.3, the substances contained in the product have no adverse health effects due to endocrine disrupting properties.

11.2.2. Other information

No other information is available.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

The product has not been tested. The toxicity of the preparation derives from the toxicity of the active substance. Therefore, the data reported in this section refer to the active substances. Due to the characteristics of the mixture, effects on soil, water, air, plants or animals are not expected.

LC ₅₀ 96 h fish (<i>Oncorhynchus mykiss</i>):	>100.0 mg/l
EC ₅₀ 48 h crustaceans (<i>Daphnia magna</i>):	8.89 mg/l
ErC ₅₀ 48 hr algae (<i>Pseudokirchneriella subcapitata</i>):	17.61 mg/l

12.2 Persistence and degradability

Does not apply, this product must be collected at the end of the period of use.

12.3 Bio-accumulative potential

No information available. Exposure not likely.

12.4 Mobility in soil

Not applicable to this product. Exposure not likely.

12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB.

12.6 Endocrine disrupting properties

No data available. The substance is not expected to have endocrine disruption properties.

12.7 Other adverse effects

No additional information is known on other adverse effects on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

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, wash water or rinse.

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 wash water. Dispose of in accordance with local, state, and federal regulations.

Container: 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

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seconds after the flow begins to drip. Fill container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the 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 14: TRANSPORT INFORMATION

The suitable shipping classification must be evaluated at the time of shipment due to the possibility for variations in regard to the transportation of this material considering the requirements, modes of transport, packaging, packaging configuration, quantity etc. Please consult the appropriate regulation for specific shipping information and requirements.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation information can be obtained through the authorized transporting corporation. It is the responsibility of the transporting corporation to follow all applicable laws, regulations and rules relating to the transportation of this product.

ADR/RID/AND, IMDG and IATA

14.1 Number:	Not applicable
14.2 UN proper shipping name:	Not applicable
14.3 Transport hazard class:	Not applicable
14.4 Packing group:	Not applicable
14.5 Environmental hazards:	Not applicable

14.6. Special precautions for user

Protect from direct sunlight. Do not pierce or burn, even after use. Do not spray on a flame or any incandescent material.

14.7 Transport in bulk according to annex II of the Marpol 73/78 Convention and the IBC Code

Not transported in bulk in accordance with the IBC Code.

SECTION 15: REGULATORY INFORMATION

This product is a pesticide product registered by the Environmental Protection Agency on January 28, 2025 with EPA Reg. Number 56336-89 and is subject to certain labelling 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.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

U.S. EPA Registration Numbers 56336-89

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

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SECTION 16: OTHER INFORMATION

Version 1: Creation of the MSDS

Abbreviations

ACGIH - American Conference of Governmental Industrial Hygienists

CAS – Chemical Abstract Services

EC₅₀ – Median lethal exposure concentration

EPA – Environmental Protection Agency

EU – European Union

IDLH – Immediately Dangerous To Life or Health

irr – irritation

LC₅₀ – Median lethal concentration

LD₅₀ – Median lethal dose

NIOSH – National Institute for Occupational Safety & Health

OSHA – Occupational Safety and Health Administration

PBT – Persistent, Bioaccumulative and Toxic

PEL – Permissible Exposure Limit

REL - Recommended Exposure Limits

SCLP – Straight Chain Lepidopteran Pheromone

TWA - Time-Weighted Average

URT – Upper respiratory tract

vPvB - very Persistent and very Bio-accumulative

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.