

Safety Data Sheet

1. Identification of Product and Company

Product Identifier:

Identification of the substance:

ISOMATE® VMB
U.S. EPA Registration Number: 53575-54
The vine mealybug pheromone technical.

Relevant Identified Uses of the Substance or Mixture:

For Agricultural Use Only. This product contains the mixture of Lavandulyl senecioate and stabilizers. This product contains behavior modifying biochemicals (pheromones) that disrupts mating of vine mealybugs (VMB) and is to be used as directed on its approved U.S. EPA pesticide label.

Important Notice:

This product contains a mixture. This SDS applies only in case that the container (pheromone dispenser) breaks and the chemicals inside leak. The product is safe for use. Due to the small amount of the chemicals in the product and the type of container (pheromone dispenser), a spill of the chemicals is highly unlikely.

Details of the Supplier of the SDS:

Pacific Biocontrol Corporation
14615 NE 13th Court, Suite A
Vancouver, Washington 98685 U.S.A.
Phone:
Fax:
Company URL:

360-571-2247
360-571-2248
www.pacificbiocontrol.com

Emergency Telephone Numbers:

Medical: Call Doctor or
Poison Control Center: 800-222-1222
Additional Information: 800-999-8805

2. Hazards Identification

Classification of the Substance or Mixture:

GHS Classification

Physical Hazards

Flammable liquids:	Not classified
Self-reactive substances:	Not classified
Pyrophoric liquids:	Not classified
Self-heating substances:	Not classified
Substances which, in contact with water, emit flammable gases:	Not classified
Oxidizing liquids:	Not classified

Health Hazards

Acute toxicity:	(U.S. EPA Toxicity Health Hazard Category III)
Skin irritation:	Non-irritant
Eye irritation:	Non-irritant

ISOMATE® is a registered Trademark of Pacific Biocontrol Corporation.

Safety Data Sheet

ISOMATE VMB

2. Hazards Identification continued

Classification of the Substance or Mixture:

GHS Classification

Health Hazards

Respiratory sensitization:	Will not result in respirable material under its conditions of use
Skin sensitization:	Not a sensitizer
Germ cell mutagenicity:	Not-mutagenic
Carcinogenicity:	Will not result in significant human exposure
Reproductive toxicity:	Will not result in significant human exposure
Specific target organ toxicity single exposure:	No data
Specific target organ toxicity repeated exposure:	No data
Aspiration hazard:	No data

Environmental Hazards

Acute aquatic toxicity:	No data
Chronic aquatic toxicity:	No data

3. Composition/Information on Ingredients

Description of the Mixture:

This product contains the mixture of Lavandulyl senecioate and stabilizers.

Composition/Ingredients:

Common Name	Lavandulyl senecioate
Chemical Name	5-methyl-2-(1-methylethenyl)-4-hexenyl 3-methyl-2-butenate
Chemical Formula	C ₁₅ H ₂₄ O ₂
Molecular Weight	224
CAS No.	23960-07-8
Impurities Contribute to Classification	No Data
Concentration / Range (wt%)	94.64

4. First-Aid Measures

Persons using this product should consult a physician or other medical professional if an accident involving this product caused injury. Specific first-aid measures are as follows:

Doctor or Poison Control Center (Hot Line Number):

Have the product package (foil packet) with label or a copy of the label with you when calling a poison control center or doctor or when going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, call 1-800-999-8805, Monday through Friday, 9AM to 5PM.

Recommendations for a Doctor or Poison Control Center:

Symptomatic treatment. Chemical group is pheromone. No specific antidote is known. There are no signs or symptoms of poisoning and, there have been no reports of poisoning.

Safety Data Sheet

ISOMATE VMB

4. First-Aid Measures continued

If on Skin or Clothing:

Remove contaminated clothing. Immediately rinse skin for 15-20 minutes using plenty of water. Contact a poison control center or doctor for treatment advice.

If in Eyes:

Immediately hold eyes open, slowly and gently rinse with water for 15-20 minutes. If wearing contact lenses, rinse eyes for 5 minutes, remove contact lenses, and continue rinsing. Contact a poison control center or doctor for treatment advice.

If Swallowed:

Contact a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

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. Contact a poison control center or doctor for treatment advice.

Prospective Acute or Late Symptoms:

Eye or skin contact: reddening, pain, chemical attack.

Inhalation: dizziness, drowsiness, headache, nausea, weakness feeling.

First Aid Safeguards:

Use gloves, or other protective equipment as required. Use a self-contained breathing apparatus, chemical cartridge respirator for organic gases.

5. Fire-Fighting Measures

If ignited by an explosive decomposition, a high concentrated vapor or mist of this material may cause an explosion. If in highly oxygen concentrated atmosphere, there is the possibility of combustion or explosion.

Extinguishing Media:

Suitable Extinguishing Agents: CO₂, extinguishing powder or alcohol-resistant foam.

Unsuitable Extinguishing Agents: High volume water jet.

Special Hazards Arising from the Substance or Mixture:

If exposed to heat or fire, it decomposes and may generate toxic irritating gases.

Special Hazards Caused by the Material, Its Products of Combustion or Flue Gases: Carbon monoxide and carbon dioxide.

Specific Extinction Method:

For Firefighting: Work from the windward side. Use an appropriate extinguishing media, as the fire could be expanded by water spray. If possible safely, move the product from close to the fire to out of the area of the fire. If it is possible, cool down the product with plenty of water. Do not use a high-volume water jet.

Safety Data Sheet

ISOMATE VMB

5. Fire-Fighting Measures continued

Advice for Firefighters:

Use a self-contained breathing apparatus, chemical cartridge respirator for organic gases, protective gloves, or other protective equipment for fire-fighting.

Additional Information: Collect contaminated firefighting water separately. It must not enter drains.

6. Accidental Release Measures

Due to the small amount of chemicals in the product, even if the container (pheromone dispenser) is damaged or broken, a spill of the chemical is highly unlikely

Mark off the area near around the spill by roping and seal off except authorized personnel.

Note for Preventing Hazards:

In the case of an indoor leakage, ventilate before entering them and give plenty of ventilation until finishing the clean-up. Wear and use a self-contained breathing apparatus, chemical cartridge respirator for organic gases, and protective gloves, protective goggles, protective boots or other protective apparel to prevent excessive skin contact and protect eyes.

Environmental Precautions:

Do not allow to enter drainage system, sewers, surface or ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of this product.

Methods and Materials for Containment and Cleaning Up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to federal and local law. Ensure adequate ventilation. Mark off the area near around the spill by roping and seal off except authorized personnel. During an indoor leakage, ensure plenty of ventilation to finish cleaning up.

Wear and use a self-contained breathing apparatus, chemical cartridge respirator for organic gases, and protective gloves, protective goggles, protective boots or other protective apparel to prevent excessive skin contact and protect eyes.

For Small Spills:

Absorb spill with dry sand, earth or charcoal, then place in chemical waste container. Do not allow to enter drainage system, sewers, surface or ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of this product.

For Large Spills:

Collect with a pump and transfer to a metal container with a seal. Absorb spill with dry sand or charcoal, and do not allow to enter drainage system, sewers, surface or ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of this product. Mop up the residual spill with charcoal or absorbent materials. Contaminated absorbents must be disposed of by appropriate measures. Work from the windward side.

Safety Data Sheet

ISOMATE VMB

7. Handling and Storage

General Items:

Read the instructions on the product label carefully. Do not open product packages until ready to use. Do not eat, drink or smoke when handling this product or when in its storage area. Keep out of reach of children. Keep away from ignition sources, heat, sparks and open flame. Ensure good ventilation.

Precautions for Safe Handling:

Keep out of reach of children. Avoid contact with skin, eyes, or clothing. Harmful if absorbed through skin, swallowed, or inhaled. Causes moderate eye irritation. Avoid breathing vapor. If bothered by vapor or odor, then move to fresh air and wear a protective apparatus, such as a mask, during usage. Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves and protective eyewear. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Conditions for Safe Storage, Including any Incompatibilities:

Do not contaminate water, food or feed by storage or disposal of unused or used dispensers. Store in original unopened product packages in a dry location at temperatures below 40°F (4°C). To prevent contamination with food or feed, store only unopened product packages in cold storage facilities that are used for food or feed. Protect from heat and direct sunlight.

8. Exposure Controls/Personal Protection

Due to the small amount of the chemicals in the product and the type of container (pheromone dispenser), a spill of the chemicals is highly unlikely. The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Control Parameters:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Exposure Controls:

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

Do not contaminate water, food or feed by storage or disposal of unused or used dispensers. Store in original unopened product packages in a dry location at temperatures below 40°F (4°C). To prevent contamination with food or feed, store only unopened product packages in cold storage facilities that are used for food or feed.

Hand Protection: Chemical resistant gloves.

Eye Protection: Protective eyewear (goggles, face shield, etc.).

Protective Wear for Skin and Body: Long-sleeve shirt. Long pants. Shoes plus socks.

Personal Protection Measures:

Keep out of reach of children. Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves and protective eyewear. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Safety Data Sheet

ISOMATE VMB

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance of Pheromone Dispenser	Two parallel brown-red polymer tubes
Stability	Stable below 40°F.
pH	4.5
Melting/Freezing Point	Not applicable
Flammability	Flash point >110.9°C
Explosive Limits	Not applicable.
Boiling Point	Not applicable.
Vapor Pressure	Not established
Specific Gravity	0.919g/cm ³ (20°C)
Solubilities	Not applicable
Partition Coefficient; Auto-ignition Temperature; Decomposition Temperature	Not established
Viscosity	5.60mm ² /s (20°C)

10. Stability and Reactivity

Reactivity:

No known hazardous reactions when stored and handled according to the U.S. EPA pesticide label instructions. May react with oxygen and strong oxidizing agents, such as chlorates, peroxides, etc. Keep away from ignition sources, heat, sparks and open flame. Avoid oxidizing agents.

Chemical Stability:

Product is stable under normal conditions of use, storage and transport. Store in a dry location at temperatures below 40°F (4°C).

Conditions/Materials to Avoid:

Keep out of reach of children. Avoid contact with skin, eyes, or clothing. Harmful if absorbed through skin, swallowed, or inhaled. Causes moderate eye irritation. Avoid breathing vapor. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Do not contaminate water, food or feed by storage or disposal of unused or used dispensers. Store in original unopened product packages in a dry location at temperatures below 40°F (4°C). To prevent contamination with food or feed, store only unopened product packages in cold storage facilities that are used for food or feed

Keep away from ignition sources, heat, sparks and open flame.

Incompatible Materials:

Oxidizing agents.

Hazardous Decomposition Products:

Avoid strong oxidizing agents, such as chlorates, peroxides, etc.

Safety Data Sheet

ISOMATE VMB

11. Toxicological Information

Information on Toxicological Effects:

Acute Toxicity	Oral LD ₅₀	>2000 to ≤ 5,000mg/kg body weight
	Dermal LD ₅₀	>2000mg /kg body weight
	Inhalation (Gas)	Will not result in respirable material under its conditions of use.
	Inhalation (Vapor)	
	Inhalation (Mist) LC50	
Skin Corrosion/Irritation	Considered as non-irritant. (Very slight erythema until 24 hours. Reversed and normal conditions at 48 hours.)	
Serious Eye Damage/Eye Irritation	Did not cause any irritation/corrosion to eye.	
Respiratory or Skin Sensitivity	Did not show any skin sensitization or allergic potential.	
Germ Cell Mutagenicity	Not-mutagenic.	
Carcinogenicity	IARC	Not listed
	NTP	Not listed
	EPA	Not listed
	ACGIH	Not listed
	NITE	Not listed
Reproductive Toxicity	No data	
Specific Target Organ Toxicity (Single Exposure)	No data	
Specific Target Organ Toxicity (Repeated Exposure)	No data	
Aspiration hazard	No data	

12. Ecological Information

Ecological Toxicity:

Acute Aquatic	No data
Chronic Aquatic	No data
Potential for or actual bioaccumulation	No data
Degradation for organic chemicals	No data

13. Disposal Considerations

Waste Disposal:

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. Do not contaminate water when disposing of this product.

Do not contaminate water, food or feed by storage or disposal. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Nonrefillable container. Do not reuse or refill this container. Dispose of empty foil packet in trash.

Safety Data Sheet

ISOMATE VMB

14. Transport Information

Transportation:

Description:	Plastic hand-applied pheromone dispenser
Hazard Class:	Not applicable – Not classified as dangerous
Freight Class:	CLASS 60
Identification Numbers:	NMFC# S155050-12
Packing Group:	Not applicable

Flash Point:

Flash point is >110.9°C.

Special Precautions for User:

Follow the precautions as listed on this SDS.

15. Regulatory Information

U.S. EPA

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 SDSs, and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is below. The pesticide label also includes other important information, including the Directions for Use.

KEEP OUT OF REACH OF CHILDREN. CAUTION: Avoid contact with skin, eyes, or clothing. Harmful if absorbed through skin, swallowed, or inhaled. Causes moderate eye irritation. Avoid breathing vapor. After handling, wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Applicators and other handlers must wear work clothing consisting of long-sleeved shirt and long pants, shoes plus socks, chemical resistant gloves and protective eyewear.

This product is registered with the U.S. EPA under EPA Registration No. 53575-54 and is categorized under U.S. EPA Toxicity Health Hazard Category III – CAUTION.

16. Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet is offered solely for your information, consideration and investigation. The data described in this SDS consist of data on literature, our acquisition data and analogical inference by data of similar chemical substances or products. Pacific Biocontrol provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. Final determination of suitability of any material is the sole responsibility of the user.

Issued Date:

October 10, 2021