



# PACIFIC BIOCONTROL CORPORATION

## SAFETY DATA SHEET (SDS)

Prepared: July 26, 2016

### 1. Identification of Product and Company

**Product Name:**

**ISOMATE® GBM PLUS**

**Canada PCPA Registration Number 27525**

**Product Uses:**

**For Agricultural Use:**

This hand-applied product emits the pheromone of the grape berry moth (*Endopiza viteana*) to disrupt its mating and is applied in grape vineyards where GBM is a pest.

**Supplier of the SDS:**

Pacific Biocontrol Corporation  
14615 NE 13th Court, Suite A  
Vancouver, Washington 98685 U.S.A.  
Phone: 360-571-2247  
Fax: 360-571-2248  
www.pacificbiocontrol.com

**Emergency Telephone Numbers:**

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

**Manufacturer:**

Shin-Etsu Chemical Co., Ltd.

### 2. Hazard(s) Identification

**Classification of the substance or mixture:**

**Hazard Classification:**

Irritant (skin and eye)



**Pictogram:**

**Precautionary Statement:**

KEEP OUT OF REACH OF CHILDREN. Do not open foil envelopes until ready to use. When handling dispensers, wear chemical-resistant gloves and eye protection. May cause skin sensitization. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating and drinking and smoking. Remove contaminated clothing and wash before re-use.

### 3. Composition/Information on Ingredients

Components	CAS NO.	EINECS NO.	Percentage
Z-9-Dodecen-1-yl Acetate*	16974-11-1	241-054-7	91.07
Other Ingredients**			8.93

\* Components are members of the well-characterized group of SCLPs (i.e. Straight Chain Lepidopteran Pheromones).

\*\* 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.

ISOMATE® is a registered Trademark of Pacific Biocontrol Corporation.



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### 4. First-Aid Measures

**First Aid:**

**Doctor or Poison Control Center:**

Seek medical attention immediately if irritation occurs and persists or is severe. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention. You may also contact Pacific Biocontrol for additional information

**If on Skin or Clothing:**

Take off contaminated clothing. Rinse skin immediately with plenty of water.

**If in Eyes:**

Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye.

### 5. Fire-Fighting Measures

**Flammable Properties:**

**Flash Point:**

Not established for pheromone dispenser. Flash point is 108°C for GBM Pheromone Blend.

**Protection against Explosions and Fires:**

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

**Extinguishing Media:**

Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

**Protection for Firefighters:**

Use standard fire fighting procedures. Collect contaminated fire fighting water separately as it must not enter drains.

### 6. Accidental Release Measures

**Personal Precautions:**

Reference sections 7 and 8.

**Environmental Precautions:**

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 irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Do not dispose of new or unused dispensers in or near streams or bodies of water.

**Methods for Containment and Cleaning Up:**

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

Do not dispose of new or unused dispensers in or near streams or bodies of water. Wastes resulting from this product, disposal of empty dispensers or disposal of unused, unwanted product may be disposed of on site or at an approved waste disposal facility or in accordance with provincial regulations. Dispose of empty foil packet in the trash or in accordance with provincial regulations. For information in case of a spill and for clean up of spills, contact the manufacturer or the provincial regulatory agency.



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### 7. Handling and Storage

#### Precautions for Safe Handling:

Do not open foil envelopes until ready to use. When handling dispensers wear protective gloves and eye protection. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### Conditions for Safe Storage:

Do not contaminate water, food or feed by storage or disposal. Store unopened package in a dry location at temperatures below 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.

### 8. Exposure Controls/Personal Protection

#### Exposure Guidelines:

Do not contaminate water, food or feed by storage or disposal. Reference sections 6 and 7.

#### Engineering Controls:

None

#### Personal Protection Measures:

When handling dispensers wear protective gloves and eye protection. Protective gloves should be impermeable and resistant to the product (suggested material: nitrile or neoprene). Wear eye protection, such as safety glasses or goggles. May also want to wear long sleeved shirt, long pants, shoes and socks.

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal protection provided is based upon normal uses and conditions.

### 9. Physical and Chemical Properties

Properties	GBM Pheromone Components*
Physical State	Colorless or light yellow transparent liquid
Odor	Mild and fatty-fruity
pH	4.3
Melting point/Freezing point	Liquid at room temperature
Initial Boiling Point & Boiling Range	120-124°C/3mmHg
Flash Point	108°C
Vapor Pressure	5.20 x10 <sup>-3</sup> mmHg (20°C)
Specific Gravity	0.881-0.882 (20°C)
Solubility	Insoluble in water (<0.002g/liter) Soluble in all common organic solvents (except DMSO, ethylene glycol)
Viscosity	3.82 c.s. (20°C)

\*Components are members of the well-characterized group of SCLPs.



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### 10. Stability and Reactivity

**Chemical Stability:**

Product is stable under normal conditions and if stored as recommended under section 7.

**Conditions/Materials to Avoid:**

Avoid contact with strong oxidizing agents, ignition sources, excessive heat, sparks or open flame.

**Hazardous Decomposition:**

Carbon monoxide and carbon dioxide, but no decomposition if used as recommended .

**Hazardous Reactions:**

None known

### 11. Toxicological Information

GBM Pheromone Components are members of the well-characterized group of SCLPs, a class of pheromones with no expected risks to human health.

**GBM Pheromone Blend:**

**Acute Toxicity:**

**Oral LD50** >5000mg/kg

**Dermal LD50** >2000mg/kg

**Inhalation LC50** >5.50mg/l

**Primary Irritant Effect:**

**On the Skin:** Slight to moderate

**In the Eye:** Mild

**Sensitization:** Not considered skin sensitizer

**KEEP OUT OF REACH OF CHILDREN.** Avoid contact with skin and eyes. Can cause skin and eye irritation.

### 12. Ecological Information

GBM Pheromone Components are members of the well-characterized group of SCLPs, a class of pheromones with no expected risks to human health or non-target organisms.

**EPA's Lepidopteran Pheromones Fact Sheet, September 2001**

**“Adverse effects on non target organisms (mammals, birds, and aquatic organisms) are not expected because these pheromones are released in very small amounts to the environment and act on a select group of insects.”**

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 irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Do not dispose of new or unused dispensers in or near streams or bodies of water.



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### 13. Disposal Considerations

**Product:**

**Recommendation:**

Do not dispose of new or unused dispensers in or near streams or bodies of water. Wastes resulting from this product, disposal of empty dispensers or disposal of unused, unwanted product may be disposed of on site or at an approved waste disposal facility or in accordance with provincial regulations.

**Unclean Packaging:**

**Recommendation:**

Dispose of empty foil packet in the trash or in accordance with provincial regulations.

### 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:**

Not established for pheromone dispenser. Flash point is 108°C for GBM Pheromone Blend.

### 15. Regulatory Information

**Health Canada**

This product is registered for sale in Canada under PCPA Registration Number 30589 and has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations. This SDS will be noncompliant three years after the issue date.

### 16. Other Information

#### FOR AGRICULTURAL USE ONLY

This SDS 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.

**SDS Authoring Information:**

**Revision Date:**

July 26, 2016 (replaces all previous versions)

**SDS Prepared By:**

Pacific Biocontrol Corp.