



# PACIFIC BIOCONTROL CORPORATION

## SAFETY DATA SHEET

### Section 1: Identification

**COMPANY NAME**

Pacific Biocontrol Corporation  
14615 NE 13<sup>th</sup> Court, Suite A  
Vancouver, Washington 98685

**EMERGENCY TELEPHONE**

Emergency: 800-999-8805  
Information: 360-571-2247  
Fax: 360-571-2248  
www.pacificbiocontrol.com  
K Bolan [kbolan@pacificbiocontrol.com]

Safety Data Sheet Competent Person:

MANUFACTURER: Shin-Etsu Chemical Co., Ltd.

EPA Est. Number 47265-JPN-01

DATE PREPARED: April 15, 2004

REVISION DATE: September 10, 2015

**PRODUCT NAME:**

### ISOMATE<sup>®</sup>-GBM PLUS GRAPE BERRY MOTH PHEROMONE

**SYNONYMS**

Grape Berry Moth Pheromone

**CANADIAN REGISTRATION**

PCP No. 27525

**PRODUCT USE:**

Isomate-GBM Plus Grape Berry Moth Pheromone contains a behavior modifying biochemical (pheromone) that disrupts the mating of grape berry moth, *Endopiza viteana*. It is to be used in grape vineyards, where the grape berry moth is a pest.

### Section 2: Hazards Identification

**HMIS Hazard Classification:**

	Health (Blue)	Flammability (Red)	Physical Hazard (Orange)	Personal Protection (White)
ISOMATE-GBM PLUS GRAPE BERRY MOTH PHEROMONE	1	1	0	B

**Canadian Precautionary Statements - Hazards Labeling**

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.

### Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	ACGIH TLV	OSHA PEL	NIOSH REL	CAS NO.	EINECS/ ELINCS	DANGER SYMBOL	RISK PHRASE	DSL CANADA
Z-9-Dodecen-1-yl Acetate (Active Ingredient)	91.07	----	----	----	16974- 11-1	241-054-7	----	R36	NDSL
Other Ingredients	8.93	----	----	----	----	----	----	----	----

Trade Secret (TS) Some items on this MSDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

ISOMATE<sup>®</sup> is a registered Trademark of Pacific Biocontrol Corporation.

Part No. ISOMATE-GBM PLUS GRAPE BERRY MOTH PHEROMONE

SDS Page 1 of 5



# PACIFIC BIOCONTROL CORPORATION

## Section 4: First Aid Measures

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.

SKIN CONTACT OR CLOTHING CONTACT: EYE CONTACT:	Take off contaminated clothing. Rinse skin immediately with plenty of water. Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye.
INGESTION:	Not applicable
INHALATION:	Not applicable.
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.

## Section 5: Fire-fighting Measures

EXTINGUISHING MEDIA:	Water spray/fog, carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam. Fight larger fires with water spray/fog or alcohol-resistant foam.
SPECIAL FIREFIGHTING PROCEDURES:	For safety reasons unsuitable extinguishing agents: Water with a full water jet. If burned, stay out of smoke. Evacuate area of all unnecessary personnel. Fire fighters should use self-contained breathing equipment and protective clothing. Move container away from fire if there is no risk. Collect contaminated fire fighting water separately. It must not enter drains.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Carbon oxides formed when burned. Under confined conditions, a vapor of this material in the air may cause a rapid combustion if ignited by exposure to heat sparks or open flame.

## Section 6: Accidental Release Measures

### ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Do not contaminate food or feed by storage or disposal of unused or used dispensers. Do not dispose of new or unused dispensers in or near streams or bodies of water.

Collect dispensers, put back into foil packet and reseal packet with tape. Store in a dry location at temperatures below 4°C. Do not store in cold facilities used for food.

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.

Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

### DISPOSAL:

Unused material that cannot be used according to label instructions must be disposed of in accordance with provincial requirements. Dispose of empty dispensers and foil envelopes in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.



# PACIFIC BIOCONTROL CORPORATION

## Section 7: Handling and Storage

Do not contaminate food or feed by storage or disposal of unused or used dispensers. Do not dispose of new or unused dispensers in or near streams or bodies of water.

Store unopened package at temperature below 4°C in a dry location. Do not store in cold facilities used for food. 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.

### INFORMATION ON EMPTIED CONTAINER:

Dispose of empty dispensers and foil envelopes in accordance with provincial requirements.

## Section 8: Exposure Controls/Personal Protection

VENTILATION:	Not required under normal use conditions.
RESPIRATORY PROTECTION:	Not required under normal use conditions.
PROTECTIVE GLOVES:	Recommend wearing chemical-resistant gloves.
EYE PROTECTION:	Recommend wearing safety glasses.
PROTECTIVE CLOTHING:	Wear protective garments to prevent excessive skin contact and protective eyewear. Remove contaminated clothing and wash before reuse.
OTHER EQUIPMENT:	Not required under normal use conditions.
WORK/HYGIENE PRACTICES:	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.

## Section 9: Physical and Chemical Properties

APPEARANCE – COLOR OF:	<u>ACTIVE INGREDIENTS:</u> Colorless or Transparent Light Yellow
PHYSICAL STATE:	Liquid
ODOR:	Mild and Fatty-Fruity
pH:	4.3
MELTING POINT:	Liquid at Room Temperature
BOILING POINT:	120-124°C/3mmHg
FLASH POINT:	108°C (Pensky-Martens)
EVAPORATION RATE:	Not Required for EPA Registration
FLAMMABILITY:	Not Required for EPA Registration
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not Required for EPA Registration
VAPOR PRESSURE:	5.20 x10 <sup>-3</sup> mmHg (20°C)
VAPOR DENSITY:	Not Required for EPA Registration
SPECIFIC GRAVITY:	0.881-0.882 (20°C)
SOLUBILITY IN WATER:	Insoluble (Less than 0.002g/liter)
SOLUBILITY IN SOLVENTS:	Soluble in all common organic solvents (except DMSO, ethylene glycol)
PARTITION COEFFICIENT:	Not Required for EPA Registration
AUTO IGNITION TEMPERATURE:	Not Required for EPA Registration
DECOMPOSITION TEMPERATURE:	Not Required for EPA Registration
VISCOSITY:	3.82 c.s. (20°C)
EXPLOSIVE PROPERTIES:	No explosion characteristics
OXIDIZING PROPERTIES:	No oxidizing characteristics



# PACIFIC BIOCONTROL CORPORATION

## Section 10: Stability and Reactivity

CHEMICAL STABILITY:	Stable if follow directions on label.
CONDITIONS TO AVOID:	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
INCOMPATIBILITY (MATERIALS TO AVOID):	Acids, peroxides and other oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition products may include toxic oxides of carbon.
HAZARDOUS POLYMERIZATION:	Not reported to occur under normal conditions.

## Section 11: Toxicological Information

Canadian Precautionary Statements - Hazards Labeling

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The active ingredient is a Straight Chain Lepidopteran Pheromone (SCLP), a class of pheromones with no expected risks to human health or non-target organisms.

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments
Acute Toxicity	LD50 (Oral/Rat)	>5000 mg/kg	EPA Toxicity Category IV
	LD50 (Dermal/Rabbit)	>2000 mg/kg	EPA Toxicity Category III
	LC50 (Inhalation/Rat)	>5.50 mg/l	EPA Toxicity Category IV
Skin Irritation	Rabbit	Slight to Moderate Irritation	EPA Toxicity Category III
Eye Irritation	Rabbit	Mild	EPA Toxicity Category IV
Skin Sensitization	Guinea Pigs	Not considered skin sensitizer.	
Carcinogenicity		Not listed	NTP, IARC, OSHA
Ames test		No mutagenicity.	

## Section 12: Ecological Information

Do not contaminate food or feed by storage or disposal of unused or used dispensers. Do not dispose of new or unused dispensers in or near streams or bodies of water..

The active ingredient is a Straight Chain Lepidopteran Pheromone (SCLP), a class of pheromones with no expected risks to human health or non-target organisms.

BIODEGRADATION:	Easily decompose to carbon dioxide and water. No residue in soil.
BIOACCUMULATION:	No information is available. Exposure not likely.
ECOTOXICITY:	Birds (Bobwhite quail): 21-Day Acute Oral LD50: >2150 mg/kg
	Fish (Rainbow trout): 96-hour Acute Toxicity LC50 >4.64 mg/l
	Aquatic Invertebrate ( <i>Daphnia magna</i> ): 48-hour Acute Toxicity EC50: 3.3 mg/l
MOBILITY:	No information is available. Exposure not likely.

## Section 13: Disposal Considerations

WASTE FROM RESIDUES / UNUSED PRODUCTS:

Do not contaminate food or feed by storage or disposal of unused or used dispensers. Do not dispose of new or unused dispensers in or near streams or bodies of water.



# PACIFIC BIOCONTROL CORPORATION

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## Section 14: Transport Information

	<u>Class</u>	<u>Packing Group</u>	<u>Sub. Risk</u>	<u>UN No.</u>
Road (U.S.-DOT):	Not Regulated			
Air (IATA):	Not Regulated			
Sea (IMDG):	Not Regulated			

NMFC number: S155050-12, class 60

## Section 15: Regulatory Information

### TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are listed on the TSCA Inventory.

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

### CANADA:

This MSDS/SDS will be noncompliant 3 years after the issue date. This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

### EUROPEAN UNION:

No chemical safety assessment according to article 14 of Regulation (EC)1907/2006 has been done. The active substances of the mixture are considered to be registered under REACH according to article 15 of Regulation (EC)1907/2006.

## Section 16: Other Information

### FOR AGRICULTURAL USE ONLY

This material safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product. Pacific Biocontrol Corporation provides no warranty, either express of implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.