



## ISOMATE® GRB

A MATING DISRUPTION FORMULATION FOR GRAPE ROOT BORER  
(*Vitacea polistiformis*) AND CURRANT BORER (*Synanthedon tipuliformis*)

### ACTIVE INGREDIENTS:

(E,Z)-2, 13-Octadecadien-1-yl Acetate ..... 78.69 %

(E,Z)-3, 13-Octadecadien-1-yl Acetate ..... 3.92 %

**OTHER INGREDIENTS** .....17.39 %

**TOTAL** ..... 100.00 %

80.43 mg active ingredients per dispenser

Keep out of reach of children

**CAUTION**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, or clothing. Harmful if absorbed through skin. Causes moderate eye irritation. 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.

#### FIRST AID STATEMENT

**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** \* 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.

**HOT LINE NUMBER:** Have the product container or label with you when contacting a poison control center or doctor, or going for treatment. For emergency information on this product, call the **National Pesticides Information Center** at 1-800-858-7878, 6:20AM to 4:30PM Pacific time (PT), seven days a week. During other times, call the poison control center at 1-800-222-1222. You may also contact Pacific Biocontrol at 1-800-999-8805 for additional information.

#### ENVIRONMENTAL HAZARDS

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.

#### PACIFIC BIOCONTROL CORPORATION

14615 NE 13th Court, Suite A, Vancouver, WA 98685 U.S.A.

Telephone (360) 571-2247 or 1-800-999-8805

www.pacificbiocontrol.com

MADE IN JAPAN

EPA Est. No: 47265-JPN-01

EPA Reg. No: 53575-41

**NET CONTENTS:** 600 Dispensers Units

One dispenser contains 0.004 fl oz or 97.36 mg

Total content of package: 2.245 fl oz or 58.42 g

ISOMATE® is a registered Trademark of Pacific Biocontrol Corporation

### DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**It is CRITICAL that ISOMATE-GRB is applied as directed.**

**Crops** Grapes including raisins, table, juice and wine grapes, Currants.

**Target Pests** Grape Root Borer (*Vitacea polistiformis*) and currant borer (*Synanthedon tipuliformis*).

**Rate** For grapes, use 100 dispensers per acre (0.31 fl oz or 8.04g a.i. per application). For currants use 200 dispensers per acre (0.62 fl oz or 16.09 g a.i. per application). Dispensers are to be placed across the treated area in a uniform manner. A higher rate may be applied around the border rows and end plants, i.e. the equivalent of 150-200 dispensers per acre (0.46-1.55 fl oz or 12.06-20.11 g a.i. per application), is suggested. Do not exceed 150 g a.i. (or 1865 dispensers) per acre per year.

**Application** In grapes, attach dispensers onto lower training wire, support posts or on the vines themselves in the mid-canopy of the vines. For some training systems, placement above the fruiting zone is sufficient for optimum activity. In currants, attach dispensers to individual canes within the top 6 inches of the cane. Borers can move a considerable distance. Therefore, treatment of the entire vineyard or planting is highly recommended. Mating disruption is most successful when large areas or the entire crop area is treated; minimum treatment area is 4 to 5 acres. The larger the treatment area, the better the system works. Treatment needs to be applied for multiple seasons. Mating disruption impacts population dynamics over time and grape root borer has been identified to have a multiple year life cycle over most of its range.

**Timing** Apply prior to seasonal emergence for the specific target species of borer species. Monitor with pheromone traps and inspection of host sites. Additional applications are to be based on field scouting for the target pest. Consult your local pest control advisor, university extension specialist or Pacific Biocontrol representative for proper timing or estimated dispenser longevity in your area.

**Note** Isomate GRB suppresses mating of target pest, immigration of mated female moths of this species from adjacent external sources of infestation will reduce the level of control. Manage by:

- Treatment of all vineyard plantings with Isomate GRB.
- Removal of wild vines from external sources.
- Treatment of pheromone treated vineyards with a federally registered and approved insecticide.
- Cultural practices aimed to reduce grape root borer infestation.

Area-wide application is most effective. Supplementary applications of insecticide are advised when Isomate GRB is used in vineyards or plantings with high pest populations or adjacent to adjacent, non-mating disrupted vineyards with high pest populations. All pests must be monitored so that timely intervention with insecticides is possible.

#### STORAGE AND DISPOSAL

**Do not contaminate water, food, or feed by storage or disposal.**

**Pesticide Storage** Store in original unopened package in a dry location at temperatures below 40°F. Do not store in cold facilities used for food.

**Pesticide Disposal** Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling** Nonrefillable container. Do not reuse or refill this container. Dispose of empty foil packet in the trash.

#### WARRANTY AND LIMITATION OF DAMAGES

The directions for use of this product are believed to be adequate and must be followed carefully. Pacific Biocontrol Corporation warrants that the product complies with the specifications expressed in this label. To the extent consistent with applicable law, Pacific Biocontrol Corporation makes no other warranties, and disclaims all other warranties, expressed or implied, including but not limited to warranties of merchantability and fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. To the extent consistent with applicable law, Pacific Biocontrol Corporation's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Pacific Biocontrol Corporation shall have no liability for damages (special, consequential or incidental) that result from handling, storage and use of this product, which is not in compliance with the label. Use of this product implies all directions of this label have been read carefully. Read all directions carefully.