

ISOMATE® GRB Z

FOR ORGANIC PRODUCTION
UNREGISTERED PRODUCT

FOR EMERGENCY EXEMPTION USE ONLY

This pesticide is ONLY approved for sale, distribution, and use under FIFRA Section 18
Emergency Exemption on grapes for control of grape root borer in the states of Delaware,
Georgia, Maryland, North Carolina, South Carolina, Tennessee and Virginia.

NORTH CAROLINA: STATE RESTRICTED USE PESTICIDE

WHEN USED IN NORTH CAROLINA, APPLICATIONS CAN ONLY BE MADE BY LICENSED/
CERTIFIED APPLICATORS OR BY PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY
FOR THOSE USES COVERED BY THE LICENSED/CERTIFIED APPLICATORS CERTIFICATION.

Effective Dates: JUNE 1, 2025 to JULY 30, 2025

Following the end of the allowed use period, any unused **opened** product must be disposed of in accordance
with the Resource Conservation and Recovery Act regulations. Any unused **unopened** product must be
returned to the distributor by September 30, 2025

Emergency Exemption Nos: 25DE01, 25GA01, 25MD01, 25NC01, 25SC01, 25TN01 and 25VA01.

Active Ingredients:

(E,Z)-2,13-Octadecadien-1-yl Acetate 81.26 %

(E,Z)-3,13-Octadecadien-1-yl Acetate..... 3.25 %

Other Ingredients 15.49 %

Total.....100.00 %

83.98 mg active ingredients per dispenser

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: 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.

PERSONAL PROTECTION EQUIPMENT

Applicators and other handlers must wear long-sleeved shirt and long pants, shoes and socks, protective
gloves and protective eyewear.

FIRST AID

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 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.

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.

Produced for:

PACIFIC BIOCONTROL CORPORATION

1831 NW Kings Blvd, Corvallis, OR 97330 U.S.A.

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

www.pacificbiocontrol.com

MADE IN JAPAN

EPA Est. No: 105053-NC-01

Net Contents: 600 Dispenser Units

One dispenser contains 99.37 mg

Total content of package: 59.62 g

ISOMATE® is a registered Trademark of Pacific Biocontrol Corporation.



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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 Z is applied as directed.

USE RESTRICTIONS: ISOMATE GRB Z is **ONLY** approved for use in the following states: Delaware, Georgia, Maryland, North Carolina, South Carolina, Tennessee and Virginia.

ISOMATE GRB Z is behavior modifying biochemical (pheromone) product that disrupts the mating of grape root borer (*Vitacea polistiformis*) on raisin, table, juice and wine grapes.

Rate: For grapes: use 100 dispensers per acre. 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 150-250 dispensers per acre, is suggested. Do not exceed 150 g a.i. (equivalent to 1786 dispensers) per acre per year.

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.

Method of 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. 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.

Application Notes: ISOMATE GRB Z suppresses mating of target pests. Immigration of mated female moths of these species from adjacent external sources of infestation will reduce the level of control. Manage by:

- Treatment of all vineyard plantings with **ISOMATE GRB Z**.
- 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.

Areawide application is most effective. Supplementary applications of insecticide are advised when **ISOMATE GRB Z** 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 to facilitate timely intervention with effective insecticides.

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. To prevent contamination of food or feed, store only unopened product packages in cold storage facilities that are used for food or feed.

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

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

UNUSED PRODUCT: Following the end of the allowed use period (June 1 - July 30, 2025), any unused **opened** product must be disposed of in accordance with the Resource Conservation and Recovery Act regulations. Any unused **unopened** product must be returned to the distributor by September 30, 2025.

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.



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