

HERCON®

DISRUPT Micro-Flake® LBAM

MATING DISRUPTANT

For Light Brown Apple Moth, *Epiphyas postvittana*

This is an unregistered product approved under Section 18 of FIFRA

For use in all sites in all areas where LBAM has been officially detected—all agricultural crops, all orchards, all nurseries, all parks and forests, all residential and municipal areas, all recreational and non-crop areas.

FOR USE IN THE STATE OF CALIFORNIA ONLY

Disrupt Micro-Flake LBAM Mating Disruptant is a behavior modifying biopesticide mating disruption product used to control infestations and damage caused by light brown apple moth, *Epiphyas postvittana*. The light brown apple moth mating disruptant pheromone is contained in and released from laminated polymer flakes that can be applied using specialized air or ground equipment.

ACTIVE INGREDIENTS:

E-11-Tetradecen-1-yl Acetate _____	10.48%
(<i>E,E</i>)-9,11-Tetradecadien-1-yl Acetate _____	0.52 %

OTHER INGREDIENTS _____	89.00%
TOTAL _____	100.00 %

NET WEIGHT: 15.03 lb (6.83 kg) 751 grams of A.I.
15.03 lbs will treat 50 acres at 15 gm ai/ac

KEEP OUT OF REACH OF CHILDREN

CAUTION PRECAUCION

PRECAUTIONARY STATEMENTS

Hazards to Handlers and Applicators Exposed to the Concentrated Product

CAUTION: Potentially harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye and skin irritation. Applicators should avoid contact with skin, eyes and clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse. These precautions are not necessary for persons exposed to the product after it has been diluted and applied according to directions for use.

Personal Protective Equipment (PPE): Applicators and handlers must wear: long-sleeved shirt, long pants, socks and shoes. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID STATEMENTS FOR APPLICATORS AND HANDLERS OF THE UNDILUTED PRODUCT.
IF SWALLOWED:
<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.
IF IN EYES:
<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
IF ON SKIN:
<ul style="list-style-type: none"> • Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
IF INHALED
<ul style="list-style-type: none"> • Move person to fresh air.
First aid treatment is not necessary for persons exposed to the product after it is diluted and applied according to directions for use.

Environmental Hazards

For terrestrial uses: For purposes of this section 18 use only this product may be applied in Riparian habitats, over water that is covered or partially covered by tree canopies , or over uncovered water that is close to such water bodies. Otherwise do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or by disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

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

APPLICATION: The application rate of **DISRUPT MICRO-FLAKE® LBAM** is 0.3 lbs (0.136 kg) – 0.5 lbs (0.227 kg) of product per acre per application. This is equivalent to 15 grams to 25 grams of light brown apple moth pheromone AI per acre. Reapply **DISRUPT MICRO-FLAKE® LBAM** after 50-80 days, or sooner as needed, based on local conditions and monitoring results and field scouting. Use in combination with supplemental light brown apple moth sprays where populations are extremely high. Do not exceed a total application rate of 150 grams AI (3 lb of product) per acre per year.

METHOD OF APPLICATION: For use on all agricultural crops, all orchards, all nurseries, all parks and forests, all residential and municipal areas, all recreational and non-crop areas. Do not open pouches until ready to use. Do not use **DISRUPT MICRO-FLAKE® LBAM** from damaged, punctured or unsealed bags. Apply the first **DISRUPT MICRO-FLAKE® LBAM** treatment early in the season, just prior to the first adult moth emergence. Time the second application with the start of the second generation flight. If more than three generations or localized elevated population densities (or hot spots) occur, consult your local extension agent, Pest Consultant Advisor or distributor. This product can only be applied using Hercon-approved ground or specialized aerial equipment. For best results use a Hercon-approved sticker, such as **MICRO-TAC™ Sticker**, to ensure the product is retained in the upper tree canopy or on the target host plant for the entire treatment period. DO NOT use in liquid ULV pesticide sprayers. The appropriate application equipment for ground application is either a modified hydroseeder or a modified blower, such as the **TURBO-TAC™ Applicator**, mounted on a suitable vehicle. The appropriate application equipment for aerial application is either the Hercon Pod System for fixed-winged aircraft or a modified helicopter applicator bucket.

Monitor all applications for infestation with pheromone-baited traps and by visual inspection of trees and fruit. Monitoring should begin early and continue throughout the season to help assess the effectiveness of the treatment. Monitor treatments closely. Supplementary treatments or alternative control measures are advised for light brown apple moth and secondary pests if monitoring by pheromone traps or visual damage assessments indicate such treatments or measures are needed.

Ground equipment: For application using a modified blower, such as the **TURBO-TAC™ Applicator**, place **DISRUPT MICRO-FLAKE® LBAM** in equipment's hopper and blow flakes into the top part of the tree canopy either by angling the application upward into the canopy of large trees or by applying over the tops of small trees and crops allowing the flakes to fall down into the upper part of the plant. Use an approved sticker such as **MICRO-TAC™** at 4-6 oz per acre to ensure product is retained in the upper tree canopy or on the host plant for the entire treatment period.

For application using a modified hydroseeder, prepare a uniform suspension of **DISRUPT MICRO-FLAKE® LBAM** in a tank-mix of water, approved sticker such as **MICRO-TAC™**, and approved thickening agent such as **MICRO-THIC™** at appropriate rates. Apply by spraying flakes into the top part of the host plant canopy either by angling the application upward into the canopy of large trees or by applying over the tops of small trees and crops allowing the flakes to fall down into the upper part of the host plant.

Aerial Equipment: For application by fixed-wing aircraft equipped with the Hercon Pod System, place **DISRUPT MICRO-FLAKE® LBAM** in the appropriate hoppers mounted and apply over the tree canopy or target host plant allowing the flakes to fall into the tops of the trees or plants. Use an approved sticker such as **MICRO-TAC™** at 2-6 oz per acre to ensure good adherence of flakes to foliage.

For application by helicopter equipped with suitably modified application bucket, prepare a uniform suspension of **DISRUPT MICRO-FLAKE® LBAM** in a tank-mix of water, approved sticker such as **MICRO-TAC™**, approved thickening agent such as **MICRO-THIC™** as described below and apply over tree canopy or target host plants allowing flakes to fall down into the tops of the host plants.

To prepare 100 gallon tank-mix to treat 400 acres at 0.3 lb product per acre

- 1) Add 60 gallons of clean water to a suitable mix tank.
- 2) With water vigorously mixing or recirculating, very slowly add 8 lb MICRO-THIC to vortex to form uniform mixture taking care not to form lumps.
- 3) Continue mixing and slowly add 12 gallons of MICRO-TAC until uniformly mixed.
- 4) Continue mixing and slowly add 120 lb of DISRUPT MICRO-FLAKE LBAM until uniformly distributed in mix.
- 5) Top up water to 100 gallon mark if necessary and continue mixing or recirculating until thickening develops to the point that flakes stay in suspension without apparent settling. Do not allow mix to "over-thicken" by allowing mixer to run for prolonged periods past this point prior to applying.
- 6) Discharge mix tank into helicopter application bucket and apply at rate of ¼ gallon of mix per acre.

After this quarantine exemption expires, any unused, unregistered product must either be returned to the manufacturer or distributor (unopened containers) or disposed of in accordance with Resource Conservation and Recovery Act regulations.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a cool dry place until used. Reseal any unused pouches immediately after use and store in a cool dry place, preferably in a refrigerator or freezer. Do not store with food.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site according to label use directions or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state or local authorities, by burning. If burned stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Hercon Environmental warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the Directions for Use under normal conditions of use to the extent allowed by state law. Hercon neither makes, nor authorizes any agent or representative to make any other warranty of fitness or of merchantability, guarantee or representation, expressed or implied concerning this material except as stated above. This warranty does not extend to the use of this product contrary to the label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Hercon Environmental. If this product is defective, Buyer's exclusive remedy shall be the replacement of the product, or if replacement is impracticable as determined by Hercon, refund of the purchase price. To the extent allowable by law, Hercon's maximum liability for breach of this warranty shall not exceed the purchase price of this product. In no case will Hercon be liable for incidental, consequential or special damages resulting from handling, storage, use, misuse or abuse of this product.

Made in the USA by:

HERCON ENVIRONMENTAL

Emigsville, PA 17318-0435

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Questions? 866-4-HERCON

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