

HERCON®

# DISRUPT Micro-Flake® CM

## MATING DISRUPTANT

For Codling Moth, *Cydia pomonella* (L.)

**Disrupt Micro-Flake CM Mating Disruptant** is a behavior modifying biopesticide mating disruption product used to control infestations and damage caused by codling moth, *Cydia pomonella*, on apple, peach, pear, pecan, plum, prune, nectarine, quince and walnut trees. The codling moth mating disruptant pheromone is contained in and released from laminated polymer flakes that can be applied using specialized air or ground equipment.

**ACTIVE INGREDIENT:**

(E,E)-8,10-Dodecadien-1-ol \_\_\_\_\_ 5.97 %

**OTHER INGREDIENTS** \_\_\_\_\_ 94.03 %

**TOTAL** \_\_\_\_\_ 100.00 %

**NET WEIGHT:** 10 lb (4.5 kg) 271 grams A.I.  
10 lb product will treat 13.3 acres at 0.75 lb product (20.3 grams A.I.) per acre

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION                      PRECAUCION**

<b>FIRST AID STATEMENTS</b>
<b>IF SWALLOWED:</b>
<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>
<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<b>IF ON SKIN:</b>
<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<p><b>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may contact the National Pesticide Telecommunications Network at 1-800-858-7378 for emergency medical treatment information. Hours of operation are seven days a week, 6:30 a.m. to 4:30 p.m. PST</b></p>

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Wear protective eyewear, either goggles, face shield or shielded safety glasses. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

**Personal Protective Equipment (PPE):** Applicators and handlers must wear: long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves, and protective eyewear. 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 pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **Environmental Hazards**

For terrestrial uses: 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 wash wastes.

### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted entry interval and notification to workers (as applicable). Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not enter or allow any worker to enter into treated areas during the restricted-entry interval (REI) of 4 hours. For early entry into treated areas that is permitted under the Workers Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, wear: coveralls, chemical resistant gloves, shoes plus socks and protective eyewear.

**APPLICATION: DISRUPT MICRO-FLAKE® CM** is effective in disrupting the pheromone scent communication female moths use to attract males of the same species for mating. This disruption delays and reduces the incidence of viable mating, which reduces the population density of the next generation. This product is to be used on apple, peach, pear, pecan, plum, prune, nectarine, quince, and walnut trees or where codling moth is a problem. The application rate of **DISRUPT MICRO-FLAKE® CM** is 0.5 lbs (0.22 kg) to 1.5 lbs (0.68 kg) of product per acre per application. This is equivalent to 13.5 grams to 41 gm of codling moth pheromone AI per acre. Reapply **DISRUPT MICRO-FLAKE® CM** after 60-75 days, or sooner as needed, based on local conditions and monitoring results and field scouting. Use in combination with supplemental codling moth sprays where populations are extremely high. Do not exceed a total application rate of 150 grams AI (5.5 lb of product) per acre per year.

**METHOD OF APPLICATION:** For use on apple, peaches, pear, pecan, plum, prune, nectarine, quince and walnut trees. Do not open pouches until ready to use. Do not use **DISRUPT MICRO-FLAKE® CM** from damaged, punctured or unsealed bags. Apply the first **DISRUPT MICRO-FLAKE® CM** treatment early in the season, just prior to the first adult codling moth emergence. Second application should be timed 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-recommended modified 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 for the entire treatment period. DO NOT use in liquid ULV pesticide sprayers. Recommended equipment for ground application is either a modified hydroseeder or a modified blower, such as the **TURBO-TAC™ Applicator**, mounted on a suitable vehicle. Recommended 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, such as the Hercon **LURETAPE® CM LURE** and **SCOUT™ WING TRAP** monitoring system, and by visual inspection of trees and fruit. Place monitoring traps in the orchard before handling **DISRUPT MICRO-FLAKE® CM**. Monitoring should begin early and continue throughout the season to help assess the effectiveness of the treatment. Monitor treatments closely, particularly for secondary pests such as leafrollers. Supplementary treatments or alternative control measures are advised for codling 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® CM** 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 allowing the flakes to fall down into the upper part of the canopy. Use an approved sticker such as **MICRO-TAC™** at 2-6 oz per acre to ensure product is retained in the upper tree canopy for the entire treatment period.

For application using a modified hydroseeder, prepare a uniform suspension of **DISRUPT MICRO-FLAKE® CM** 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 tree canopy either by angling the application upward into the canopy of large trees or by applying over the tops of small trees allowing the flakes to fall down into the upper part of the canopy.

**Aerial Equipment:** For application by fixed-wing aircraft equipped with the Hercon Pod System, place **DISRUPT MICRO-FLAKE® CM** in the appropriate hoppers and apply over the

tree canopy allowing the flakes to fall into the tops of the trees. 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® CM** in a tank-mix of water, approved sticker such as **MICRO-TAC™**, and approved thickening agent such as **MICRO-THIC™**, all at appropriate rates, and apply over tree canopy allowing flakes to fall down into the tops of the trees.

### **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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EPA Reg. No. 8730-65

### **Questions? 866-4-HERCON**

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