

8730-68

7/9/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number:  
**8730-68**

Date of Issuance:  
**JUL - 9 2009**

Term of Issuance: **Unconditional**

Name of Pesticide Product:  
**Hercon Disrupt Micro-Flake  
VBN**

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Aberdeen Road Company d/b/a Hercon Environmental  
P.O. Box 435  
Emigsville, PA 17318

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA Sec. 3(c)(5) provided you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 8730-68."
3. Submit three (3) copies of the revised final printed labeling before you release the product for shipment.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

*Sheila Kelly for*  
Michael McDevitt, Associate Director,  
Biopesticides and Pollution Prevention Division

*July 9, 2009*

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HERCON®  
**DISRUPT MICRO-FLAKE® VBN**  
**BARK BEETLE ANTI-AGGREGANT FLAKES**

HERCON DISRUPT MICRO-FLAKE® VBN is a controlled-release pheromone formulation designed to lower the incidence of certain bark beetle attacks on individual tree species or tree stands listed in this label. This product is for non-food use only. Apply using equipment suitably modified for aerial and ground applications.

**ACCEPTED**

|   |  |         |
|---|--|---------|
| <b>ACTIVE INGREDIENT:</b>                         |  |         |
| 4,6,6-trimethyl-bicyclo (3.1.1) hept-3-en-2-one.. |  | 15.33%* |
| <b>OTHER INGREDIENTS</b> .....                    |  | 84.67%  |
| <b>TOTAL</b> .....                                |  | 100.00% |

**JUL - 9 2009**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 3730-64

**CONTENTS:**

**MINIMUM NET WEIGHT: 10.0 KG [22 lb]\***

\* 10 kg [22 lb] of product will treat 10.5 acres at 150 g A.I. per acre or per 100 trees of 12-inch (30 cm) diameter at breast height (DBH) at 15 g A.I. per tree

BATCH CODE

**KEEP OUT OF REACH OF CHILDREN**

**C A U T I O N**  
**C U I D A D O**

Read Directions and Precautionary Statements Before Use

| <b>FIRST AID:</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, and then continue rinsing.</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>   |
| <b>IF INHALED:</b>   | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor immediately for further treatment advice.</li> </ul>                       |
| <b>HOTLINE NUMBER</b>  |   |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information. Hours of operation are seven days a week 6:30 am to 4:30 pm PST. |   |

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye and skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some

individuals. Avoid contact with skin, eyes and clothing. Avoid breathing vapor. Wear protective eyewear and chemical resistant gloves. 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
- Shoes and Socks
- Chemical resistant gloves
- 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 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. Incidental applications to water under the forest canopy are not considered to be a direct application to water, but should be avoided when possible. However, spray valves must be shut off when passing over surface water not under the forest canopy. Do not contaminate water when cleaning equipment or 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.**

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 State or Tribal 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 the label about personal protective equipment (PPE) and the 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 workers or handlers may be in the area during application. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow any worker entry 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, water, wear: coveralls, chemical resistant gloves, shoes plus socks and protective eyewear.

**APPLICATION:** This product is an effective management tool for certain bark beetles on pine. The active ingredient, verbenone, is an anti-aggregation pheromone that can protect susceptible host trees when applied in the Micro-Flake form. Use on tree stands containing lodgepole pine (*Pinus contorta*), ponderosa pine (*P. ponderosa*), whitebark pine (*P. albicaulis*), loblolly pine and other pines that are hosts to certain bark beetles such as mountain pine beetle (*Dendroctonus ponderosae*), red turpentine beetle (*D. valens*), and three ambrosia beetle species (*Xylosandrus compactus*, *X. crassiusculus* and *X. saxeseni*).

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**Tree Stands:** Apply once per season using approved method appropriate for size of area to be treated (see below under Method of Application) at rate of 2.2 to 7.33 lb (1 to 3.33 kg) of **DISRUPT MICRO-FLAKE® VBN** (equivalent to 0.33 to 1.1 lb [150 to 500 gm] of active ingredient) per acre. Use in areas such as but not limited to forests; suburban, municipal and shade tree areas, recreational areas such as campgrounds, golf courses, parks and parkways; ornamental, shade tree forest plantings; shelter belts and rights of way, and other easements. **To ensure proper rate and method of application, make application by or under the supervision of a qualified person.**

**Individual Trees:** Apply once per season using approved method (see below under Method of Application) to trunks of individual trees to a height of 22 feet (7 meters) at rate of 100 gm product (15 gm active ingredient) per 12 inches (30 cm) of trunk diameter at breast height (DBH). To assure flakes are retained on tree trunk, apply as a mixture including **DISRUPT MICRO-FLAKE® VBN**, an inert sticker such as **MICRO-TAC®**, a thickener such as **MICRO-THIC™**, and water.

**METHOD OF APPLICATION:** Do not open pouches until ready to use. Do not use **DISRUPT MICRO-FLAKE VBN** from damaged, punctured or unsealed bags.

Apply this product only using Hercon approved modified ground or aerial equipment as follows: For individual tree application use Hercon **PODDS™** hand-held applicator or modified hydroseeder; for small area ground application use hand-held fertilizer spreader or modified blower such as the Hercon **TURBO-TAC™** Applicator mounted on ATV; for aerial application to large areas use Hercon Aerial Pod System for fixed winged aircraft or suitably calibrated fertilizer spreader for suitable for fixed winged or helicopter aircraft. Do not allow drift from application site to contact non-target crops.

Monitor for infestations using Lindgren Funnel Trap and appropriate beetle attractants and by visual inspection.

**Individual Tree Application:**

For application using the hand-held Hercon **PODDS™** (Pheromone On Demand Delivery System), prepare a uniform suspension of **DISRUPT MICRO-FLAKE® VBN** in an approved sticker such as **MICRO-TAC™** with an approved thickening agent such as **MICRO-THIC™**. Apply uniformly to each tree trunk to a height of 22 feet (7 meters) to achieve rate of 0.22 lb (100 gm) of **DISRUPT MICRO-FLAKE VBN** (equivalent to 15 gm active ingredient) for each 12 inches (30 cm) of diameter at breast height (DBH).

For application by modified hydroseeder, prepare a uniform suspension of **DISRUPT MICRO-FLAKE® VBN** in a tank-mix of water, approved sticker such as **MICRO-TAC™**, and approved thickening agent such as **MICRO-THIC™**. Apply a 12 inch (30 cm) strip to height of 22 feet (7 meters) on a single side of the tree trunk at the rate of (100 gm) of **DISRUPT MICRO-FLAKE VBN** (equivalent to 15 gm active ingredient) per 12 inches (30 cm) of diameter at breast height (DBH).

**Ground Application:** Apply **DISRUPT MICRO-FLAKE® VBN** at label rate of 2.2 to 7.33 lb (1 to 3.33 kg) per acre without sticker using a suitable hand-held fertilizer spreader or with or without sticker using a modified blower such as the Hercon **TURBO-TAC** Applicator mounted on an ATV or other suitable vehicle.

**Aerial Application:** Place **DISRUPT MICRO-FLAKE® VBN** in the appropriate hoppers mounted on the plane or helicopter. Spread **DISRUPT MICRO-FLAKE® VBN** at label rate of 2.2 to 7.33 lb (1 to 3.33 kg) per acre into tree canopy allowing the product to fall down and through top of trees. **DISRUPT MICRO-FLAKE VBN®** can be applied with or without a sticker depending on the area and stand classification.

**STORAGE AND DISPOSAL:**

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

**PESICIDE STORAGE:** Store in sealed containers in a cool dry place.

**PESTICIDE DISPOSAL:** Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Plastic bag: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke. Cardboard Box: Dispose of outside cardboard box in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke. Metal drums: Offer for recycling or reconditioning, or dispose of in sanitary landfill, or by other procedures approved by state and local authorities as long as none of the bags containing product have broken while in the drum. If bags have broken, triple rinse the drum and then offer for recycling or reconditioning, or dispose of in sanitary landfill.

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### 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, which must be followed. To the extent consistent with applicable 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. To the extent consistent with applicable law, 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. To the extent consistent with applicable law, 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 consistent with applicable law, Hercon's maximum liability for breach of this warranty shall not exceed the purchase price of this product. To the extent consistent with applicable law, 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  
P.O. Box 435, Emigsville, PA 17318-0435

EPA Reg. No. 8730-68  
EPA Est. No. 8730-PA-01

Questions? Call Toll-Free: 1-866-4-HERCON

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REV 1/26/09