



MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: HERCON® DISRUPT BIO-FLAKE® Light Brown Apple Moth Mating Disruptant Flake
Target Insect: Light Brown Apple Moth, Epiphyas postvittana
Pheromone Dispenser for Use as a Mating Disruptant,

EPA Reg. No. 8730-73
 MSDS Number: 100813
 COMPANY: ABERDEEN ROAD COMPANY d/b/a HERCON ENVIRONMENTAL
 P.O. Box 435
 Aberdeen Road
 Emigsville, PA 17318

For more information call 717-764-1192 or National Pesticide Information, 800-858-7378

SECTION II. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

HEALTH = 1, FLAMMABILITY = 0, REACTIVITY = 0

SECTION III. COMPOSITION AND INFORMATION ON INGREDIENTS

ACTIVES:
 CHEMICAL NAMES: (E)-11-Tetradecenyl acetate and (E,E)-9,11-tetradecadienyl acetate
 CHEMICAL FAMILY of active ingredient: *Ester*
 C.A.S. NUMBERS: 33189-72-9 and 54664-98-1
 FORMULA: *C16H30O2 and C16H28O2*
 CONSTRUCTION: Biodegradable polymeric controlled release dispenser, 1/8" X 1/8" flake to be aerielly or ground applied with an appropriate sticker

SECTION IV. PHYSICAL PROPERTIES

BULK DENSITY: <i>N/A</i>	SPECIFIC GRAVITY/25 ⁰ C: <i>N/A</i>
MELTING POINT: <i>300⁰F</i>	BOILING POINT: <i>N/A</i>
FREEZING PT: <i>N/A</i>	pH: <i>N/A</i>
PERCENT VOLATILE by volume: <i>None specified</i>	VAPOR DENSITY (AIR = 1): <i>N/A</i>
ODOR DESCRIPTION: <i>Mild</i>	SOLUBILITY IN WATER:
VAPOR PRESSURE (20 ⁰ C, mm HG): <i>Not determined</i>	<i>Insoluble</i>

SECTION V. PRODUCT HAZARD INFORMATION

PERCENT ACTIVE IN PRODUCT: *15.0%*
 OCCUPATIONAL EXPOSURE LIMITS: *Not established*
 HEALTH/TOXICITY INFORMATION: *Toxicological properties of the active ingredient have been investigated: Oral LD50 (rat) >17,600 mg/kg. Use appropriate procedures to prevent direct contact with skin or eyes and prevent inhalation. No significant toxicity is expected*
 EFFECTS OF OVEREXPOSURE: *None reported*

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EMERGENCY AND FIRST AID PROCEDURES: *IF SWALLOWED: Have person sip a glass of water if able to swallow, Do not induce vomiting unless told by a poison control center or doctor. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes then continue rinsing. IF ON SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. IF INHALED: Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration, preferably mouth to mouth. In all cases call a poison control center or doctor immediately for further treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.*

SECTION VI. FIRE HAZARD INFORMATION

FLASH POINT: *N/A* **FLAMMABLE LIMITS in air:** *N/A*
EXTINGUISHING MEDIA: *Dry chemical, foam, water fog or spray Carbon dioxide, foam*
SPECIAL FIRE FIGHTING PROCEDURES: *If involved in fire, use air-supplied equipment. Do not inhale fumes. Wear full protective equipment and NIOSH approved pressure demand, self contained breathing apparatus* **UNUSUAL FIRE AND EXPLOSION HAZARDS:** *If burned irritating combustion gases may be produced and should be avoided.*

SECTION VII. REACTIVITY INFORMATION

PRODUCT STABILITY: *UNSTABLE _____ STABLE _____ X _____*
HAZARDOUS POLYMERIZATION: *May Occur _____ May Not Occur X _____*
CONDITIONS TO AVOID: *Do not store near easily ignited chemicals and materials or open flames.* **MATERIAL TO AVOID:** *Strong oxidizing agents* **HAZARDOUS DECOMPOSITION PRODUCTS:** *None with normal environmental decomposition. With combustion irritating gases may be produced and should be avoided.*

SECTION VIII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: *Place unpouched product in tightly sealed containers. Keep out of water sources and sewers.*
WASTE DISPOSAL METHOD: *Incinerate or otherwise manage at RCRA permitted waste management facility. Do not reuse empty containers. Check state and local authorities for other options.*

SECTION IX. PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: *Usually none required.*
EYE PROTECTION: *Usually none required*
VENTILATION: *Good general ventilation should be sufficient.*
PROTECTIVE GLOVES: *None required but vinyl, latex or rubber gloves recommended for continuous handling.* **OTHER PROTECTIVE EQUIPMENT:** *None under normal usage.*
NOTE: *Personal protection information shown above is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.*

SECTION X. HANDLING AND STORAGE PRECAUTIONS

GENERAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: *Store in sealed containers in a cool, dry place and away from open flames. To maintain product integrity protect from high temperatures. Keep container closed. Launder contaminated clothing before use. Wear protective equipment described above if exposure conditions warrant. Do not contaminate water sources, food or feed.*

SPECIAL PRECAUTIONARY CONDITIONS: *None.*

SECTION XI. TRANSPORTATION DATA

DOT LABEL: *None required, non-hazardous material.*

SECTION XII. DISCLAIMER

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.

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