

**MATERIAL SAFETY DATA SHEET
HERCON ENVIRONMENTAL**

SECTION I – PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **HERCON® DISRUPT® Micro-Flake VBN**
*Target Insect: Certain Bark Beetles such as Mountain Pine Beetle
Pheromone Dispenser for Use as an Anti-aggregation Pheromone,
Laminated polymeric dispensers*

MSDS Number 100770 February 24, 2009
COMPANY: ABERDEEN ROAD COMPANY d/b/a HERCON ENVIRONMENTAL
P.O. Box 435
Aberdeen Road
Emigsville, PA 17318 1-800-4HERCON

SECTION III. COMPOSITION AND INFORMATION ON INGREDIENTS

ACTIVE

COMMON NAME: *Verbenone*
CHEMICAL NAME: 4,6,6-trimethyl-bicyclo (3.1.1) hept-3-en-2-one
C.A.S. NUMBER: 1196-01-6
FORMULA: C₁₀H₁₄O
CONSTRUCTION: Laminated PVC controlled release dispenser 1/8" X 1/8" to be aerially or ground applied with or without an appropriate sticker, certain bark beetle *anti-aggregation pheromone*

SECTION IV. PHYSICAL PROPERTIES

BULK DENSITY: <i>N/A</i>	SPECIFIC GRAVITY/25°C: <i>N/A</i>
MELTING POINT: <i>300°F</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>	
ODOR DESCRIPTION: <i>Mild</i>	VAPOR DENSITY (AIR = 1): <i>N/A</i>
VAPOR PRESSURE (20°C, mm HG): <i>Not determined</i>	SOLUBILITY IN WATER: <i>Insoluble</i>

SECTION V. PRODUCT HAZARD INFORMATION

PERCENT ACTIVE IN PRODUCT: 15.33%
OCCUPATIONAL EXPOSURE LIMITS: *Not established*
HEALTH/TOXICITY INFORMATION: Acute effects: Most likely route of entry is through the skin. May cause skin and eye irritation. *Toxicological properties of the active ingredient have been investigated and have shown this material to have low acute oral, acute dermal and primary eye irritation: However, it is important to use appropriate procedures to prevent direct contact with skin or eyes and prevent inhalation. No significant toxicity is expected*

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EFFECTS OF OVEREXPOSURE: *None reported*

EMERGENCY AND FIRST AID PROCEDURES:

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor immediately for treatment advice.

IF IN EYES: 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. Call a poison center or doctor immediately for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing call 911 or an ambulance and then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor immediately for further treatment advice.

IF SWALLOWED: 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC web site: www.npic.orst.edu). After 4:30 pm call your poison control center at 1-800-222-1222.

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: *When burned the hazardous decomposition products that will result because of incomplete combustion include carbon monoxide, other unidentified products of hydrocarbon degradation, No low level cyanides and hydrogen chloride.*

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: *On combustion, the polymeric dispensers may produce CO, CO₂, HCL and CL₂.*

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.*

STORAGE AND DISPOSAL:

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

PESTICIDE 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. Do not reuse empty bag.

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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: *Applicators and handlers must wear long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves and protective eye wear. 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

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. 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.

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BY: Priscilla MacLean DATE REVISED: February 24, 2009

TITLE: Product Development Manager

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