

# MATERIAL SAFETY DATA SHEET

## SECTION I. MANUFACTURER

HERCON ENVIRONMENTAL  
PO BOX 435 ABERDEEN RD  
EMIGSVILLE PA 17318-0435

For information or in an emergency  
call (717) 764-1192

## SECTION II.

HAZARDOUS MATERIAL  
IDENTIFICATION SYSTEM

HEALTH = 1  
FLAMMABILITY = 0  
REACTIVITY = 0

## SECTION III. PRODUCT INFORMATION

PRODUCT NAME: Hercon® Luretape® TBW (*Tobacco Budworm, Helicoverpa virescens*)  
Tobacco Budworm Pheromone (Virelure)  
COMMON NAME OF ACTIVE INGREDIENT: Z-11-hexadecenal and Z-9-tetradecenal  
CHEMICAL NAMES: Virelure or Tobacco Budworm sex pheromone  
C.A.S. NUMBERS: 53939-28-9 and 53939-27-8  
FORMULA: C<sub>16</sub>H<sub>30</sub>O and C<sub>14</sub>H<sub>26</sub>O  
PRODUCT FORM: Laminated polymeric dispenser containing 20 mg Virelure

## SECTION IV. PHYSICAL PROPERTIES

BULK DENSITY:	NA	SPECIFIC GRAVITY/25°C:	NA
MELTING POINT:	300°F: NA	BOILING POINT:	NA
FREEZING POINT:	NA	VISCOSITY:	NA
PERCENT VOLATILE by volume:	Less than 1.4%	pH:	NA
ODOR DESCRIPTION:	Mild spicy, clove like aroma	VAPOR DENSITY (AIR = 1):	NA
VAPOR PRESSURE (20°C mm HG):	Not determined	SOLUBILITY IN WATER:	Insoluble

## SECTION V. PRODUCT HAZARD INFORMATION

PERCENT ACTIVE INGREDIENT IN PRODUCT: 1.4%  
OCCUPATIONAL EXPOSURE LIMITS: Not established  
HEALTH/TOXICITY INFORMATION: The toxicological properties of the active ingredients have not been investigated. Use appropriate procedures to prevent direct contact with skin or eyes and prevent inhalation. No significant toxicity expected.  
EFFECTS OF OVEREXPOSURE: None reported  
EMERGENCY AND FIRST AID PROCEDURES:  
EYES: Flush with water for at least 15 minutes.  
SKIN: Wash with soap and water. If irritation develops, seek medical attention.  
INHALATION: Remove from exposure. If breathing is labored, give oxygen.  
INGESTION: If ingested, drink plenty of water. Get medical attention.  
SYMPTOMS OF EXPOSURE: May cause skin or eye irritation.

## SECTION VI. FIRE HAZARD INFORMATION

FLASH POINT: NA  
FLAMMABLE LIMITS IN AIR: NA  
EXTINGUISHING MEDIA: Carbon dioxide, foam  
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, use air-supplied equipment. Do not inhale fumes.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

## SECTION VII. REACTIVITY INFORMATION

PRODUCT STABILITY: Unstable \_\_\_\_\_ Stable  X   
HAZARDOUS POLYMERIZATION: May Occur \_\_\_\_\_ May Not Occur  X   
CONDITIONS TO AVOID: None specified  
MATERIAL TO AVOID: Strong oxidizing agents  
HAZARDOUS DECOMPOSITION PRODUCTS: On combustion, the polymeric dispenser may produce, CO, CO<sub>2</sub>, HCL, and CL<sub>2</sub>.

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**SECTION VIII. SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Place unpouched strips 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.

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**SECTION IX. PERSONAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: Usually none required

EYE PROTECTION: Usually none required

VENTILATION: Good general ventilation

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 described 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.

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**SECTION X. HANDLING AND STORAGE PRECAUTIONS**

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

SPECIAL PRECAUTIONARY CONDITIONS: None

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**SECTION XI. TRANSPORTATION**

DOT LABEL: None required, non-hazardous material.

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**SECTION XII. DISCLAIMER**

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise material safety data sheets periodically as new merchantability, fitness for a particular purpose of any other nature are made hereunder with respect to the information contained herein, or the chemical to which the information refers. Hercon Environmental assumes no responsibility for any damages, losses, injuries, or consequential damages which may result from the use or misuse of this product and the recipient assumes all such risks.

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By: Priscilla MacLean

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TITLE: Product Development Manager