

**SCENTRY BIOLOGICALS, INC.**  
**610 CENTRAL AVE**  
**BILLINGS, MT 59102**

**YELLOW STRIPED ARMYWORM (*Spodoptera ornithogalli*)**

**MATERIAL SAFETY DATA SHEET**

**July 22, 2009**

**Manufacturer**

SCENTRY BIOLOGICALS, INC.  
610 Central Avenue  
Billings, MT 59102  
(406) 248-5856

**Hazardous Material Identification System**

Health = 1  
Flammability = 1  
Reactivity = 0

**Product Information**

Product Name: Yellow Striped Armyworm (*Spodoptera ornithogalli*)  
Chemical Name of active ingredient: (Z)-11-Hexadecenyl Acetate & (Z)-11-Hexadecen-1-ol  
Chemical Family of active ingredient: Insect Pheromone sex attractant  
C.A.S. Number: Mixture (Pheromone)  
Formula: Mixture (Pheromone)  
Product Form: A rubber septa containing insect attractant.

**Physical Properties**

Bulk Density: N/A  
Specific Gravity/25°C: N/A  
Melting Point: N/A  
Boiling Point: N/A  
Freezing Point: N/A  
Odor Description: Waxy, Fatty  
Vapor Density (Air = 1): >1  
Vapor Pressure (20°C, mm HG): N/A  
Solubility in Water: N/A

**Product Hazard Information**

No known hazards.  
Respiratory Protection: None required.  
Eye Protection: 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.

**Fire Hazard Information**

Flash Point: Greater than 200°F.  
Flammable Limits in air: N/A  
Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical, or water spray.  
Special Fire Fighting Procedures: Use standard fire fighting procedure  
Unusual Fire and Explosion Hazards: None

## **Reactivity Information**

Product Stability: Unstable \_\_\_\_\_ Stable  X

Hazardous Polymerization: May Occur \_\_\_\_\_ May Not Occur  X

Conditions to avoid: None specified

Material to Avoid: Acid Base, Corrosive and Oxidizing materials.

Hazardous Decomposition Products: CO, CO<sub>2</sub>, H<sub>2</sub>O

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## **Spill or Leak Procedures**

Steps to be Taken if Material is Released or Spilled: Securely wrap container or spilled material in several layers of newspaper and discard in trash. Keep out of water sources and sewers.

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## **Personal Protection Information**

Respiratory Protection: None required

Eye Protection: 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: Use clothing and equipment consistent with good agricultural material handling and application procedures.

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## **Handling and Storage Precautions**

General Precautions to be Taken in Handling and Storage: Store in cool, dry area out of direct sunlight. Keep container closed until ready to use. Keep away from food, feedstuffs, and domestic water supplies.

Special Precautionary Conditions: None

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## **Disclaimer**

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion, the information is, as of the date of this Material Safety Data Sheet, reliable. However, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability in completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees.