

**Material Safety Data Sheet**

**Product: STORGARD® IMM+4™ pheromone lure for *Plodia interpunctella*, *Ephestia kuehniella*, *Cadra figulilella*, *Ephestia elutella*, and *Cadra cautella***

**MSDS Date:** 11/06/2007  
**Product Name:** STORGARD® IMM+4™ pheromone lure for *Plodia interpunctella*, *Ephestia kuehniella*, *Cadra figulilella*, *Ephestia elutella*, and *Cadra cautella*  
**Manufacturer:** Trécé, Incorporated

**I. Product and Company Description**

**Company:** Trécé Incorporated, P.O. Box 129, Adair, OK 74330  
**Emergency Phone Number:** (918) 785-3061  
**For Product Information:** (918) 785-3061  
**Product Name:** STORGARD® IMM+4™ pheromone lure for *Plodia interpunctella*, *Ephestia kuehniella*, *Cadra figulilella*, *Ephestia elutella*, and *Cadra cautella*  
**Active Ingredient:** (9Z,12E)-9,12-tetradecadien-1-yl acetate  
**Synonym(s):** (9Z,12E)-9,12-tetradecadien-1-ol acetate  
IMM pheromone  
*cis,trans*-9,12-tetradecadien-1-yl acetate

**II. Chemical Composition / Information on ingredients**

Active ingredient impregnated into natural rubber using appropriate solvent

**Active Ingredient:** (9Z,12E)-9,12-tetradecadien-1-yl acetate  
**CAS Number:** 30507-70-1  
**Molecular Formula:** C<sub>16</sub>H<sub>28</sub>O<sub>2</sub>  
**EPA Registration No.:** 52991-18  
**Dispenser:** Elastomer-based solid

**MSDS based on active ingredient(s) unless otherwise indicated; active ingredient(s) belong to a class of compounds generally regarded as safe; finished product contains very low amounts of active ingredient(s) (<1.0%)**

**III. Hazards Identification**

**HMIS Hazard Classifications:** Health = 1; Flammability = 1; Reactivity = 0; Protection = B  
**Label Precautionary Statements/**  
**U.S. Hazard Labeling:** May be irritating to skin and eyes

**IV. First-Aid Measures (for finished product)**

**Eye Contact:** Flush with water for 15 minutes. Seek medical help if necessary.  
**Skin Contact:** Wash area well with water. Seek medical help if necessary.  
**Inhalation Exposure:** Remove to fresh air. Give oxygen and call a physician.  
**Ingestion:** Administer water and call a physician or poison control center immediately.  
Do not induce vomiting.

**V. Fire Fighting Measures (for finished product)**

**Flash Point:** Not Determined  
**Autoignition Temperature:** Not Determined  
**Flammability Limits (vol/vol%):** **Lower:** ND; **Upper:** ND  
**Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), foam, dry chemical.  
**Special Fire Fighting Procedures:** Use standard fire fighting procedures.  
**Unusual Fire and Explosion Hazards:** None

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### VI. Accidental Release Measures

**Cleanup and Disposal of Spill:** Standard absorbents can be used  
**Waste Disposal:** Incineration or sanitary landfill in accordance with local, state, and federal regulations.

### VII. Handling and Storage

**Handling:** Observe all warnings and precautions listed for the product. Use in accordance with good manufacturing and industrial hygiene practices. Use product in a properly ventilated work area. Do not eat, drink, or smoke while handling product.  
**Storage:** DO NOT USE METAL. Store tightly sealed under inert gas in a cool, well-ventilated area.  
**Fire Protection:** Keep away from heat, sparks, and open flame.

### VIII. Exposure Controls / Personal Protection

**Ventilation:** Mechanical (general)  
**Respiratory Protection:** Usually not required  
**Eye / Face Protection:** Wear splash-proof safety glasses  
**Skin Protection:** Wear rubber gloves  
**Other Protective Equipment:** Safety shower, eye wash

### IX. Physical and Chemical Properties

**Active Ingredient:** (9Z,12E)-9,12-tetradecadien-1-yl acetate  
**Physical State:** Liquid  
**Physical Appearance:** Colorless liquid  
**Odor:** Very mild, oily  
**Boiling Point:** 110°C at 4 mm Hg  
**Vapor Pressure:** Not found  
**Vapor Density (Air = 1):** >1  
**Specific Gravity at 25°C (water = 1):** 0.8850:0.8940  
**Water Solubility:** Insoluble in water  
**Flash Point (CC):** Not established

### X. Stability and Reactivity

**Conditions to Avoid:** Presents no special reactivity hazard  
**Materials / Chemicals to be Avoided:** Strong oxidizing agents  
**Hazardous Combustion Products:** CO, CO<sub>2</sub>, Water



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### XI. Toxicological Information

<b>Active Ingredient:</b>	(9Z,12E)-9,12-tetradecadien-1-yl acetate
<b>Acute Effects:</b>	Most likely route of entry is through the skin. Full strength may be irritating to eyes.
<b>Toxicity Data:</b>	This material is a Straight Chain Lepidopteran Pheromone, a class of pheromones with no expected risks to human health or non-target organisms.
<b>Threshold Limit Value (TLV):</b>	Not established
<b>OSHA Permissible Exposure Limit (PEL):</b>	Not established
<b>Listed as Carcinogen by NTP, IARC, or OSHA:</b>	No

### XII. Ecological Information

**General:** Prevent contamination of soil, ground, and surface water.

### XIII. Disposal Consideration

**Waste Disposal Method:** Incineration or sanitary landfill in accordance with local, state, and federal regulations.

### XIV. Transportation Information

<b>Road (U.S. - DOT):</b>	Not regulated
<b>Air (IATA):</b>	Not regulated
<b>Sea (IMDG):</b>	Not regulated

### XV. Regulatory Information

<b>European Information:</b>	Based on toxicological studies in the published literature, there are no risk and safety phrases to assign for this product.
<b>Reviews, Standards, and Regulations:</b>	This chemical is listed on the following inventories: TSCA, NDSL, EINECS
<b>Listed as carcinogen by NTP, IARC, or OSHA:</b>	No

### XVI. Other Information

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