ISCA TECHNOLOGIES
Pest Management Tools & Solutions

Material Safety Data Sheet

ISCALURE-TUTA™
Insect attractant for Tuta absoluta

Section 1- Substance and Company Information

Trade Name: Iscalure-Tuta™		Chemical description: Pheromone impregnated in rubber septa	
Manufacturer's Name: ISCA Technologies, Inc.		Address: 1230 Spring Street, Riverside, CA 92507	EPA Est. # 80286-CA-004
Information Calls: (951) 686-5008	Date Prepared: 10/30/09	Prepared by: DZ	Notice: Judgment based on indirect test data.

Section 2 – Physical/Chemical Characteristics

Section 2.1 – Active Ingredient Characteristics

Molecular formula: $C_{16}H_{26}O_2$ / $C_{16}H_{28}O_2$	Molecular weight (g): 250.38 / 252.4
Molecular Name: (E,Z,Z)-3,8,11-Tetradecatrienyl acetate / (E,Z)-3,8-Tetradecadienyl acetate	CAS #: Not available

Section 2.2 – Rubber Septa Characteristics

Boiling Point: N/A	Water Reactive: NO
Vapor Density: (Air=1): N/A	
Solubility in Water: insoluble	

Section 3 – Fire and Explosion Hazard Data

Flammability as per USA flame projection test (aerosols): NA		Flash Point and Method Used: N/A
Auto Ignition Temperature: NA	Extinguisher Media: CO_2, Foam, dry chemical	Potential hazardous products of combustion: Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, aldehydes and other products of combustion
Unusual Fire & Explosion Hazards: None		Special Fire Fighting Procedures: Use standard fire fighting procedures.

Section 4 – Reactivity Hazard Data

Stability: Stable under ordinary conditions of use and storage	Incompatibility (Materials to avoid): None known.	Hazardous Polymerization: None known
Hazardous Decomposition Byproducts: None known		Conditions to Avoid: Presents no special reactivity hazard

Section 5 – Toxicological Data

Toxicity	Primary Routes of Entry			
	Inhalation	Ingestion	Skin Absorption	Eye
Acute Effects:	No data available	No data available	No data available	No data available
Chronic Effects:	No data available	No data available	No data available	No data available
Special Remarks:	Most likely route of entry is through skin.			
Medical Conditions Generally Aggravated by Exposure:	None Known.			

Section 6 – Emergency First Aid Procedures

Eye Contact:	Flush with water for 15 min. Seek medical help if necessary.
Skin Contact:	Wash area well with water. Seek medical help if necessary.
Inhalation:	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.

Section 7 – Control and Protective Measures

Respiratory Protection (specify type): None normally needed.	
Protective Gloves:	Rubber gloves.
Eye Protection:	Splash proof safety glasses
Ventilation Requirements:	Mechanical.
Other protective clothing & equipment:	Safety shower, eye wash.
Hygienic Work Practices:	Do not smoke, eat, drink or apply cosmetics in work area! Wash with soap and water after contact. Wash at the end of each work shift and before eating, smoking and using the toilet.

Section 8 – Precautions for Safe Handling and Use

Waste Disposal Methods:	Incineration or sanitary landfill in accordance with local, state, and federal regulations.
Precautions to be taken in handling & storage:	Store tightly sealed in a cool, well-ventilated area. 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.
Other Precautions and/or Special Hazards:	None

Section 9 – Regulatory Information

HMIS Rating: Health Hazard 1; Fire Hazard 1; Reactivity 0; Personal Protection B (section 7)

DOT Hazard Classification: Not Regulated

The chemical, physical and toxicological properties of this product have not been thoroughly investigated. The above information is believed to be current and accurate; however, ISCA Technologies, Inc. makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information. **OSHA** (U.S. Occupational Safety and Health Administration) **PEL** (Permissible Exposure Limit) an exposure value that means exactly the same as a ACGIH TLV, except that it is enforceable by OSHA

*Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only.