

SPLAT

TutaTM

For Mating Disruption of the South American Tomato Leafminer,
Tuta absoluta

SPLAT (Specialized Pheromone & Lure Application Technology) is an amorphous polymer matrix for the sustained passive release of insect pheromones. *SPLAT Tuta* provides control of the tomato leafminer by disrupting mating behavior.

ISCA

ACTIVE INGREDIENT:

South American Tomato Leafminer Pheromone

(E,Z,Z)-3,8,11-Tetradecatrienyl acetate: **0.3%**

OTHER INGREDIENTS: 99.7%

TOTAL: 100.0%

Net Contents: _____ Lbs _____ Kg

Batch Number: _____

EPA Reg. No. 80286-16

EPA Est. No. 80286-CA-004

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID STATEMENT

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, then continue rinsing eye.
- Call poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.

IF SWALLOWED:

- Call 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 do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

HOTLINE NUMBER

- Have the product container or label with you when calling a poison control center or doctor or going for treatment.
- For emergency information on (product, use, etc.), call the National Pesticide Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific Time (PT), seven days a week. During other time, call the poison control center 1-800-222-1222.

See side/back panel for additional precautionary statements.

PRECAUTIONARY STATEMENTS	
HAZARDS TO HUMANS AND DOMESTIC ANIMALS, CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before use.	
PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves, and protective eyewear. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are available for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.	
USER SAFETY RECOMMENDATIONS: Users should remove clothing/PPE immediately if product gets underneath clothing. Then, shower/clean skin thoroughly with soap and water and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. Remove and wash contaminated clothing before reuse. As soon as possible, wash thoroughly and change into clean clothing.	
ENVIRONMENTAL HAZARDS: For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment/washwaters or rinsate.	
DIRECTIONS FOR USE	
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This product is for both agricultural crop use and for plants grown for commercial purposes. When used just for agricultural crops, follow the precautions in the Agricultural Use Requirements box directly below. For any requirement specific to your State and Tribe, consult the State/Tribe agency responsible for pesticide regulation.	
AGRICULTURAL USE REQUIREMENTS	
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), restricted entry interval and notification to workers (as applicable). Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers/handlers may be in the area during application. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow any worker entry into treated areas during the restricted entry interval (REI) of 4 hours. For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, water, wear: coveralls, chemical resistant gloves, shoes plus socks and protective eyewear.	
NON-AGRICULTURAL USE REQUIREMENTS	
The requirements in the box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep children and pets out of treated areas until sprays or other wet applications have dried.	
GENERAL	SPLAT Tuta uses the pheromone of the South American tomato leafminer (<i>Tuta absoluta</i>) to disrupt adult moth mating and thus reduce larval damage to crops.
CROPS	SPLAT Tuta is for use on tomato crops and all crops where the South American tomato leafminer is detected.
TIMING	Apply early in the season, prior to and at the first sign of male flight. Reapply as needed based on trap capture and scouting programs. Consult your own pest control advisor, distributor or ISCA Technologies to obtain correct timing for application.
PLACEMENT	Apply SPLAT Tuta dollops at upper level of plant foliage. For commercial greenhouse use preventative measures should be taken to prevent pest carryover to crops.
APPLICATION RATE	The application rate of SPLAT Tuta is 10 grams to 10 kilograms of undiluted product per acre. This is equivalent to 0.03 - 30 grams of pheromone active ingredient (AI) per acre. Do not exceed more than 150 grams of active ingredient per acre per year. Consult your pest control advisor for the recommended rate of application, as the application rate will vary depending on pest population and specific field conditions.
POINT SOURCE SIZE, NO. PER ACRE, AND SPACING	Droplet or dollop size can be varied (large or small) depending on 1) amount of active ingredient pheromone applied per acre, and 2) duration of control required. A higher number of small dollops will emit more pheromone in a shorter time interval than fewer large dollops. While the pheromone emission rate per unit area remains constant for large and small dollops, the larger dollops have a greater volume/reservoir, which increases its field life making it useful where long-term suppression of <i>Tuta absoluta</i> populations is required. Dollop size can vary depending on number of pheromone point sources required. To apply 200 g of SPLAT as 1,000 point sources per acre, distribute 0.2 gram (200 mg) dollops uniformly throughout the area. To apply 200 g as 10,000 point sources, distribute 0.02 gram dollops (20 mg) uniformly throughout the area.

EXTERNAL FACTORS	When applied by aircraft, SPLAT Tuta will be dispersed in droplets of various sizes. While most of the volume of SPLAT Tuta applied aerially is represented by droplets 1/8" (3 mm) in diameter, some droplets will be larger and some smaller. Actual droplet size can be controlled by the nozzle type and the rate of product applied. Typically, 100 mg droplets will have a diameter of 0.2-0.24" (5-6 mm); 30 mg droplets will have a diameter of 0.1-0.125" (2.5-3.0 mm) and a 5 mg droplet will have a diameter of 0.02-0.03" (0.5-0.75 mm).
EXTERNAL FACTORS	SPLAT mating disruption formulations are used to disrupt the mating cycle of target pest(s). The efficacy of any mating disruptant will be reduced by the influx of mated females from surrounding areas. It is for this reason the mating disruption strategy works best with large acreages where the ratio of exposed borders to overall area treated is relatively small. It is recommended that borders be fortified with either 20% more SPLAT Tuta or the periodic reapplication of product along the borders, especially around suspected moth entry points. Monitor for pests on a regular basis, so that timely intervention with another application of SPLAT Tuta , pesticides or other control measures are possible.
PREPARATION FOR USE	Always check SPLAT Tuta 24 hours before using. If SPLAT Tuta has been stored in a refrigerated area and has hardened, allow at least 48 hours at room temperature to achieve a workable consistency. Always mix SPLAT Tuta thoroughly before use. A drill with paint mixing paddle or similar device works best. Avoid mechanical mixing with sharp blades, which come into contact with the plastic container as this can introduce shards of plastic into the SPLAT Tuta mixture, which might interfere with product flowability and application.
APPLICATION METHOD	SPLAT Tuta can be applied manually with items such as a thin spatula, small caulking gun-style dosing gun, pressurized backpack sprayer, or mechanically with a tractor, all terrain vehicle (ATV) truck, aircraft or appropriate mechanical device. Do not apply this product through any type of irrigation system.
MECHANICAL APPLICATION	When using mechanical application equipment, calibrate the system to deliver the intended amount of material per acre as determined in the APPLICATION RATE box. Always consult your dealer, distributor or ISCA Technologies to ensure optimum application of product is achieved.
MONITORING	Monitor the target pest(s) with pheromone-baited traps, such as the ISCALure [®] Tuta pheromone lure and ISCA delta trap monitoring system. Place monitoring traps in the treated area before applying SPLAT Tuta to determine the infestation level. Continue monitoring throughout the season to evaluate efficacy and longevity of the application. Supplementary control measures are advised if the pest population densities are above threshold levels.
WEATHER FACTORS	Apply SPLAT Tuta when the ambient temperature is above 55°F (13°C) and below 95°F (35°C). SPLAT Tuta dollops typically cure within 2-3 hours following application, after which they will become rainfast and UV resistant. Do not apply if rain is expected within 2-3 hours of application or the temperature is outside these ranges.
CLEANING EQUIPMENT	Clean equipment with water and citrus or limonene detergents.
STORAGE AND DISPOSAL	
Do not contaminate water, food or feed by storage and disposal.	
PESTICIDE STORAGE	Store product sealed and refrigerated, if possible. If refrigerated, do not store with food. If refrigeration is not available, store product in a cool dry place, out of direct sunlight. Do not exceed 75°F (24°C) for long-term storage. Avoid freezing. In case of leak or spill, wipe with paper towel and dispose of waste when product hardens.
PESTICIDE DISPOSAL	Wastes resulting from the use of this product may be disposed of on site or at an approved waste facility.
CONTAINER DISPOSAL	Plastic containers. Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Alternatively, pressure rinse as follows: empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. For rigid nonrefillable containers that are too large to shake with capacities greater than 5 gallons or 50 lbs, triple rinse as follows: empty the remaining contents into application equipment or a mix tank. Fill the

container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Alternatively, pressure rinse as follows: empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Read all directions carefully. All statements concerning the use of this product apply only when used as directed. ISCA Technologies warrants that this material conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label. To the extent consistent with applicable law, ISCA Technologies makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.

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