

Prepared on: 20<sup>th</sup> Oct, 2016

## TUTA CHECK

### Material Safety Data Sheet (MSDS)

#### SECTION-1 : SUPPLIER AND PRODUCT INFORMATION

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<b>Product Name:</b> <b>"TUTA CHECK"</b>	<p>This product is intended for use in crops as pheromone sex attractant of <i>Tuta absoluta</i> males for monitoring technique.</p> <p>The composition is 0,5 mg of E3Z8Z11-14 Ac; E3Z8-14 Ac (95:5) in a natural rubber septa/ Cellulose plug. It contains various excipients such as Antioxidants, UV Stabilizers and inerts to obtain the final product with the necessary dispersion rates, thermal resistance and protection against rain, mist, moisture and sun shine.</p>
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#### SECTION-2 : HAZARDS IDENTIFICATION FOR ACTIVE INGREDIENTS

<b>Emergency Overview</b>	In case of fire the product could produce irritating in eyes, nose, throat and respiratory tract
<b>Hazard Rating System</b>	Health – 1
	Flammability – 1
	Reactivity – 0

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### SECTION-3 : COMPOSITION / INFORMATION ON INGREDIENTS

**Active Ingredient:** 0,5 mg of E3Z8Z11-14 Ac; E3Z8-14 Ac (95:5)

**Support:** Natural rubber septa/ Cellulose plug

### SECTION-4 : FIRST AID MEASURES FOR ACTIVE INGREDIENTS

<b>Oral Exposure</b>	Rinse your mouth with sufficient water. Seek medical advice after significant ingestion and if you have any hassles.
<b>Inhalation Exposure</b>	It is difficult to inhale in formulated product. However in case of fire it is advisable to remove affected person from the contaminated area to a well ventilated area or to fresh air. If necessary, assist with artificial respiration. Consult your doctor if discomfort persists.
<b>Dermal Exposure</b>	In case of skin contact resulting in irritation remove contaminated clothing immediately. Wash thoroughly with soap and water for at least 15 minutes, without rubbing skin. If symptoms of irritation or person appear you feel unwell, seek medical advice. Consult your doctor if discomfort persists.
<b>Eye Exposure</b>	In case of contact with eyes, resulting in irritation, flush with copious amount of water for at least 15 min. Assure adequate flushing by separating the eyelids with fingers. Consult your physician if irritation develops. Do not apply any product except for those indicated by the doctor.

#### NOTE TO PHYSICIAN:

No exist specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have de MSDS or label of product with you when calling a doctor.

### SECTION-5 : FIRE FIGHTING MEASURES

<b>Flammability</b>	No data available
<b>Unsuitable extinguishing media</b>	Water jets high volume risk of contamination to lead to runoff of contaminated water.

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<b>Extinguishing Media</b>	Water spray, Carbon dioxide, dry chemical powder or appropriate foam.
<b>Fire Fighting - Protective Equipment</b>	Wear self-contained breathing apparatus and protective clothing (fire fighting helmet, coat, trousers, boots and gloves) to prevent contact with skin and eyes.
<b>Specific Hazard(s)</b>	Not easily combustible. Emits low degree toxic fumes under fire conditions which may be toxic and irritating. Combustion products may include and are not limited to: Carbon monoxide and carbon dioxide.
<b>Other information</b>	Evacuate personnel from immediate areas. For large incendis not inhale fumes. Stay upwind.

## SECTION-6 : ACCIDENTAL RELEASE MEASURES

<b>Procedure to be followed in case of leak or spill</b>	Pick up the plastic containers and collect or dispose off in approved manner.
<b>Procedure(s) of personal precaution(s)</b>	No protective apparatus necessary for cleanup.
<b>Methods for cleaning up</b>	Pick up material and dispose off in approved manner.
<b>Environmental precautions</b>	It does not present special dangers for the enviroment.

## SECTION-7 : HANDLING AND STORAGE

<b>Handling</b>	Keep the dispenser lures inside the seal package until use. Handle in accordance with good industrial hygiene and safety practices respect. Wash hands once handled the product. Use personal protective equipment as specified in Section 8.
<b>Storage</b>	Store product only in original and tightly closed containers. Keep in a safe, cool, dry, well-ventilated place. Keep away from food, drink, feed or seed. Keep out of reach of children. Avoid direct action of sunlight and other heat sources.

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## SECTION-8 : EXPOSURE CONTROLS / PPE

<b>Engineering Controls</b>	No open flames.
<b>Personal Protective Equipment</b>	No respiratory equipment required.
<b>Hand</b>	Compatible chemical resistant gloves recommended for prolonged handling.
<b>Eye</b>	No precautions necessary if devices are handled in prescribed manner.
<b>General Hygiene Measures</b>	Wash contaminated clothing before reuse. Wash thoroughly after handling.

## SECTION-9 : PHYSICAL / CHEMICAL PROPERTIES

<b>Appearance</b>	Natural rubber septa/ Cellulose plug
<b>Color</b>	Grey
<b>Odor</b>	Charasteristic
<b>Explosive properties</b>	No data available
<b>Solubility in water</b>	No soluble

## SECTION-10 : STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	Avoid extreme temperatures.
<b>Hazardous Decomposition Products</b>	Acids, bases and oxidizing material.
<b>Hazardous polymerization</b>	Has not been reported.

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## SECTION-11 : TOXICOLOGICAL INFORMATION

<b>Skin irritation</b>	Product in case of fire might cause skin irritation upon prolonged contact.
<b>Eye Contact</b>	Product in case of fire could causes eye irritation.
<b>Inhalation</b>	Product difficult to inhale. But in case of fire emitted odours may cause irritation.
<b>Ingestion</b>	Product could cause choking if swallowed.
<b>Signs and Symptoms of Exposure</b>	To the best of our knowledge, the chemical, physical and toxicological properties of the active ingredients have not been thoroughly investigated.
<b>Toxicity Data</b>	<p>Not available</p> <p>Note: The product is inside a phisical trap therefore the risk for the humans, animals or enviroment is minimum.</p>

## SECTION-12 : ECOLOGICAL INFORMATION

No data available

Note: The product is inside a phisical trap therefore the risk for the humans, animals or enviroment is minimum.

## SECTION-13 : DISPOSAL CONSIDERATIONS

<b>Appropriate Method of Disposal of Substance or Preparation</b>	Once the product is used in the field, the dispenser will contain only rubber. Contact a licensed professional waste disposal service to dispose of this material.
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## SECTION-14 : TRANSPORT INFORMATION

<b>DOT</b>	No regulated for transport
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<b>Air transport (IATA/ICAO)</b>	No regulated for transport
<b>Sea transport (IMDG/IMO)</b>	No regulated for transport

## SECTION-15 : REGULATORY INFORMATION

<b>European Information</b>	Based on toxicological studies in the published literature, there is no risk and safety phrase to assign for this product.
<b>United States Regulatory Information</b>	The active ingredients are listed in the following inventories: TSCA, NSDL, ECL, EINECS (252-397-7)
<b>Listed as carcinogen by NTP, IARC or OSHA</b>	No

## SECTION-16 : OTHER INFORMATION

<b>HMIS® Hazardous Materials Identification System</b>	HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA.
<b>Acronyms</b>	NTP (National Toxicology Program); IARC (International Agency for Research on Cancer); OSHA (Occupational Health and Safety Administration); DOT (U.S. Dept. of Transportation)
<b>Disclaimer</b>	Only for use in crops.

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