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SECTION 1. IDENTIFICATION**GHS product identifier:****Identification as on the label/Trade name:** RB TUTA LURE™**Other means of identification:****Additional information/Alternative name:** None**Recommended use of the chemical and restrictions on use:****Identified uses:** Pheromone lure for the monitoring of *Tuta absoluta* in various crops.**Uses advised against:** Use only as directed.**Supplier's details:**

River Bioscience (Pty) Ltd
5th Floor, Fairview House, Fairview Office Building
66 Ring Road,
Greenacres,
Gqeberha,
6045,
South Africa

Emergency phone number:

River Bioscience Head Office: +27 41 373 1409 (office hours)

Griffon Poison Information Centre: +27 82 446 8946 (national / 24 hours)

Poison Information Helpline: +27 861 555 777 (national / 24 hours)

Hazcall24 (Transport / Spill Emergency): +27 860 444 4111 (national / 24 hours)

SECTION 2. HAZARD IDENTIFICATION**Classification of the substance or mixture:****The mixture is classified according to:** United Nations, Globally Harmonized System of Classification, 9th Edition, published 2021.

Hazard classes	Hazard classification category
Skin irritation	Category 3
Eye irritation	Category 2B

GHS label elements, including precautionary statements:

Signal Word: Warning.

Hazard Statements:

Causes mild skin irritation.

Causes eye irritation.

Hazard pictograms: None.

Precautionary statements:

Wash hands and face thoroughly after handling. Do not touch eyes.

Wear protective clothing.

Other hazards which do not result in classification:

None.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture:

Mixture.

Chemical identity of the ingredients (IUPAC)	CAS –No.	Concentration (% v/v)	Classification
	EC-No.		GHS 9 th Edition
(E,Z,Z)-3,8,11-Tetradecatrienyl acetate	163041-94-9	<15%	Causes skin irritation
	682-695-6		
(E,Z,Z)-3,8,11-Tetradecatrienyl acetate	163041-87-0	<15%	Causes skin irritation
	682-690-9		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of necessary first aid measures:

In case of inhalation: If inhaled, remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.

In case of skin contact: Take off contaminated clothing and wash with plenty of water. If skin irritation occurs, get medical help.

In case of eye contact: Rinse cautiously with water for several minutes. Removed contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical help.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed:

Causes mild skin irritation.

Causes eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURE

Extinguishing media:

Suitable extinguisher media: Use foam, dry chemical powder or carbon dioxide.

Unsuitable extinguishing media: None known.

Special hazards arising from the mixture:

Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, and other products of combustion.

Special protective actions for fire-fighters:

None. Use standard firefighting procedures.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid contact with skin. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid contact with skin. Refer to Section 7, Handling, for additional

precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions:

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills: Contain spilled material if possible. Collect in suitable and properly labelled containers. Scrub area with water and soap or citrus detergent.

For large spills: Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain spilled material if possible. Collect in suitable and properly labelled containers. Scrub area with water and soap or citrus detergent. Dispose of containers in accordance with national legislation.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None know.

SECTION 7. HANDLING AND STORAGE**Precautions for safe handling:**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get on skin or clothing.

Advice on general safe handling: Read the label before use. Use only as directed.

Advice on general occupational hygiene: Do not eat, drink or smoke whilst mixing or applying, nor before washing hands and face.

Conditions for safe storage, including incompatibilities:

Use as directed. While in use, the container must be kept cool and in the shade. The container must not be exposed directly to sunlight. Store away from foodstuffs and animal feed. Do not exceed 23°C for long-term storage.

Specific storage requirements: Shelf-life of 2 years from date of manufacture if stored at 4-8°C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known.

Biological exposure indices (BEI): None known.

Additional exposure limits under the specific conditions of use: None known.

Appropriate engineering controls:

None required.

Individual protection measures, such as personal protective equipment (PPE):

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Ensure that eyewash stations are close to the workstation location.

Skin protection: Wear appropriate clothing for task or operation. Use latex or nitrile gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Keep working clothes separately. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Ensure that safety showers are close to the workstation location.

Respiratory protection: For most conditions no, respiratory protection should be needed; however, if discomfort is experienced or when the Risk Assessment shows respiratory protection is required, use an approved air-purifying respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Solid.

Colour: Grey.

Odour: Rubbery, waxy.

Melting point/Freezing point (°C): Not applicable.

Boiling point/range (°C): Not applicable.

Flammability: Not applicable.

Upper/lower flammability/explosive limits: Not applicable.

Flash point (°C): Not applicable.

Auto-ignition temperature (°C): Not applicable.

Decomposition temperature: Not applicable.

pH (at concentration): Not applicable.

Viscosity (dynamic) (cP): Not applicable.

Water solubility (g/l) at 20°C: Not soluble in water.

n-Octanol / Water partition coefficient: Not applicable.

Vapour pressure (20°C): Not applicable.

Density / relative density (20°C) (g/ml): 1.15

Relative vapour density: Not applicable.

Particle characteristics (nm): Not applicable.

Physical hazards:

None known

SECTION 10. STABILITY AND RELIABILITY

Reactivity:

Product is stable. No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:

Minimum 24 months shelf life if stored under recommended conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

High temperatures, sparks, open flames and live electrical circuits.

Incompatible materials:

Keep away from heat, oxidisers and strong acids.

Hazardous decomposition products:

In case of fire oxides of carbon, fumes or vapours, soot and smoke may be produced.

SECTION 11. TOXICOLOGICAL INFORMATION**Toxicokinetics, metabolism and distribution:**

Non-human toxicological data: No information available.

Method: No information available.

Dosage: No information available.

Routes of administration: No information available.

Results: No information available.

Absorption: No information available.

Distribution: No information available.

Metabolism: No information available.

Excretion: No information available.

Information on toxicological health effects:

Acute toxicity: No information available.

Skin corrosion/irritation: Causes mild skin irritation.

Serious eye damage/irritation: Causes eye irritation.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Information on the likely routes of exposure:

No information available.

Symptoms related to the physical, chemical, and toxicological characteristics:

No known symptoms.

Delayed/Immediate/Chronic effects from short- and long-term exposure:

No information available.

Numerical measures of toxicity (ATE):

ATE Calculation not required.

Interactive effects:

No information available.

Other information:

None.

SECTION 12. ECOLOGICAL INFORMATION

Information on ecotoxicological effects:

Toxicity: No information available.

Persistence and degradability: No information available.

Bio-accumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:

Treat as hazardous waste and dispose of in accordance with national or international regulations as appropriate.

Container disposal methods: Do not re-use packaging for any other purpose. Destroy empty container and discard in adherence with national legislation.

Physical/chemical properties affecting disposal: None known.

Special precautions for incineration or landfill: Do not burn container or product. Recycle as far as possible.

SECTION 14. TRANSPORT INFORMATION

Transporting/Shipping information:

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not required	Not required	Not required
Transport hazard class:	Not required	Not required	Not required
Packaging group:	Not required	Not required	Not required
Environmental hazards:	No	No	No
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to IMO instruments:	Not required	Not required	Not required

Keep stored at 4-8°C.

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question:

Regulatory status of the substance/mixture: Registered under the "Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No 36 of 1947), regulating agricultural remedies in South Africa.

Relevant safety/health/environmental regulations: The labels and SDS of this product complies with the Occupational Health and Safety Act, 1993 (Act N 85 of 1993), and the Regulations for Hazardous Chemical Agents, 2021, in South Africa.

SECTION 16. OTHER INFORMATION

Preparation date and revision number:

Current version date:	Current version:
2022/07/01	1.0 / 2022
2023/07/01	1.0 / 2023
2024/09/01	1.0 / 2024

Revision changes: Section 1: Update of emergency phone numbers.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.