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SAFETY DATA SHEET

R.B. PheroLure®

1. IDENTIFICATION

Product code: PRB
Product name: R.B. PheroLure®
Chemical contents: Rhinoceros beetle (*Oryctes* spp.) pheromone: Ethyl 4-methyloctanoate.

Product description, recommended uses and restrictions:

This product consists of Rhinoceros beetle pheromone impregnated in a cellulose coaster. This product is intended for use in agricultural crops for the monitoring of male rhinoceros beetle (*Oryctes* spp.) in palms.

Supplier: Insect Science (Pty) Ltd.
9 Industria Street, New Industrial Area, Tzaneen, 0850, South Africa
Telephone: 015 307 1391 / 015 065 0199
Emergency number: 015 307 1391 / 015 065 0199 (office hours)
In case of poisoning: Griffon Poison Information Centre 082 446 8946
Tygerberg Hospital 021 931 6129
Poison Emergency Enquiries 021 689 5227

2. HAZARD IDENTIFICATION

Classification of substance or mixture according to GHS; Regulation (EC) No 1272/2008

Not classified according to GHS

Label elements

Pictograms: Not classified

Signal word: Not classified

Hazard statement(s): None

Precautionary statements: None

Supplemental hazard statement(s): None

Other hazards: Not known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Substance loaded into a cellulose coaster

Substance name: Ethyl 4-methyloctanoate

CAS registry number: 56196-53-3

Formula: C₁₁H₂₂O₂



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Synonyms: 4-methyl-octanoic acid ethylester

Hazardous ingredients according to GHS:

None.

4. FIRST-AID MEASURES

When loaded in the dispenser, the impregnated substance represents less of a hazard than the neat substance.

General advice

Ingestion: If swallowed, wash mouth with water if person is conscious. Never give anything by mouth to an unconscious person. The impregnated substance is not classified as toxic by oral consumption. The device may represent a choking hazard. Obtain medical attention if necessary.

Skin contact: The impregnated substance is not considered harmful by dermal exposure. In case of contact, remove contaminated clothing if applicable and wash area of exposure with non-abrasive soap and copious amounts of water for several minutes.

Inhalation: The impregnated substance is not expected to be acutely toxic by inhalation. If inhaled, remove the source of contamination or move victim to fresh air.

Eye contact: Immediately flush eyes with clean water for several minutes, holding the eyelids open. If present, remove contact lenses after 5 minutes. Continue rinsing. Consult a physician if irritation persists.

Most important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

This material is not flammable.

Extinguishing media

Suitable: Where possible, extinguish fire with dry chemical powder, foam or carbon dioxide.

Unsuitable: Not known.

Specific hazards arising from combustion: Carbon monoxide and carbon dioxide.

Special precautions for fire-fighters: Remove spectators from the area. Stay upwind of fire to avoid inhalation of hazardous vapours and fumes. Wear self-contained breathing apparatus and protective clothing where necessary. Always fight fires from the maximum distance, especially in the case of hazardous material. Contain fire control agents for later disposal.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

It is advisable to wear impermeable gloves and protective equipment when handling the product to avoid contact with skin.



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Environmental precautions: This product is not expected to be harmful to the environment when used according to recommendations.

Methods and materials for containment and cleaning up: Spillage is unlikely. Clean up devices and dispose of according to local regulations. Burning or dumping of this material is prohibited.

7. HANDLING AND STORAGE

Precautions for safe handling: KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Before handling, ensure that all hazards are understood and the correct personal protective equipment is used (refer to section 8 of this SDS). Wash hands thoroughly after use.

Conditions for safe storage, including any incompatibilities: Store containers locked away and out of reach of uninformed persons or animals. Store the product in its original, labelled, closed container in a freezer until use. Never transfer this product to another container for storage. Always comply with local regulations.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Permissible concentrations:

No occupational exposure limits have been set for any of the ingredients used in the manufacturing of this product.

Engineering controls: Adequate ventilation is essential. The appropriate measures that need to be implemented at a worksite will depend on the way in which the product is used and on the extent of worker exposure. Provide local exhaust ventilation systems to maintain airborne concentrations below permissible exposure limits.

Personal protective equipment:

Eye / face protection: Avoid touching eyes when handling the product.

Skin protection: Avoid contact with skin. Handle with impermeable gloves.

Respiratory protection: Avoid breathing mist or vapours.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid loaded into a cellulose coaster

Colour: Yellow clear liquid loaded into a cellulose coaster

Odour: Fruity odour

Melting point / freezing point: Not available

Boiling point or initial boiling point and boiling point range: Not available

Flammability: Not flammable

Lower and upper explosion limit / flammability limit: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not available

Kinematic viscosity: Not available

Solubility: Insoluble in water

Partition coefficient n-octanol / water (log value): Not available

Vapour pressure: Not available

Density and/or relative density: Not available

Relative vapour density: Not available

Particle characteristics: Not available

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Rapid degradation, evaporation and volatilization can be expected.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Open flames.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (calculated according to GHS)

Oral > 5000 mg/kg (rat)

Dermal > 5000 mg/kg (rabbit)

Inhalation > 20 mg/L (rat)

Skin corrosion / irritation: Not considered a skin irritant.

Eye damage / irritation: Not considered an eye irritant.

Respiratory or skin sensitization: Not considered a respiratory or skin sensitizer.

Germ cell mutagenicity: Not considered a mutagen.

Carcinogenicity: Not considered a carcinogen.

Reproductive toxicity: Not considered a reproductive toxin.

Specific target organ toxicity single exposure: Not considered a target organ toxicant after single exposure.

Specific target organ toxicity repeated exposure: Not considered a target organ toxicant after multiple exposure.

Aspiration hazard: Not considered an aspiration hazard.

12. ECOLOGICAL INFORMATION



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The impregnated substance is not classified as environmentally hazardous. Application through a dispenser is considered to have minimal ecological impact.

Ecotoxicity (neat pheromone material)

Fish

LC₅₀ (96h) No information available

Birds

Acute oral LD₅₀ No information available

Dietary LC₅₀ (8d) No information available

Daphnia

LC₅₀ (48h) No information available

Algae

EC₅₀ (96h) No information available

Bees

LD₅₀ No information available

Worms

LC₅₀ (14d) No information available

Persistence and degradability: Rapid degradation, evaporation and volatilization can be expected.

Bio-accumulative potential: Rapid degradation, evaporation and volatilization can be expected.

Mobility in soil: No data available. The product is not expected to come into direct contact with the soil when used according to recommendations.

Plants: No data available. The product is not expected to come into direct contact with plant material when used according to recommendations.

Other adverse effects: Not known.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Open dumping or burning of this device is prohibited. According to the regulations regarding extended producer responsibility (National Environmental Management: Waste Act, 2008; Act No. 59 of 2008), the used device needs to be incinerated or recycled by an approved recycler. Unused product that has expired needs to be incinerated.

14. TRANSPORT INFORMATION

UN number:	Not regulated.
UN proper shipping name:	Not regulated.
Transport hazard class:	Not regulated.
Packaging group, if applicable:	Not regulated.
Environmental hazards:	Not considered a marine pollutant.
Special precautions for user:	None



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15. REGULATORY INFORMATION

Safety, health and environmental regulations / legislation used:

Regulations for hazardous chemical agents, 2021. Occupational Health and Safety Act, 1993.

OSHA 1993 Regulations for hazardous chemical substances.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP).

United Nations Globally Harmonized System of Classification, ninth revised edition, 2021.

16. OTHER INFORMATION

Packaging: Packaged as a ready-to-use lures that should be used in conjunction with an Insect Science (Pty) Ltd. panel trap.

Compiled: September 2022

Reviewed: September 2022

Revision number: 1

Next revision date: September 2027

For more information, please contact the registration holder.

END OF SDS.
