



INSECT SCIENCE®

The Science of Entomology

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SAFETY DATA SHEET

T.V. PheroLure®

1. IDENTIFICATION

Product code: PTV

Product name: T.V. PheroLure®

Chemical contents: Plant Volatile Blend

Product description, recommended uses and restrictions:

This product consists of plant volatile blend impregnated in a polyethylene bulb. This product is intended for use in agricultural crops for monitoring of African Bollworm (*Helicoverpa armigera*) and Tomato Semi Looper (*Chrysodeixis acuta*) in susceptible crops.

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

Hazard class	Hazard category	Hazard statement
Health		
Acute oral	Acute Tox. 4	H302
Aspiration	Asp. Tox 1	H304
Sensitization	Skin Sens. 1	H317
Skin corrosive	Skin Corr. 1B	H314
Environment		
Aquatic Acute	Aquatic Acute 1	H400
Aquatic Chronic	Aquatic Chronic 1	H410
Physical		
Flammable Liquid	Flam. Liq. 3	H226

Label elements

Pictograms:





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Signal word: Danger

Hazard statement(s):

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P261: Avoid breathing vapours.

P264: Wash face, hands and any exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330 + P331: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P317: If skin irritation or rash occurs: Get medical help.

P363 - Wash contaminated clothing before reuse.

P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.

P391: Collect spillage.

P403 + P235 - Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents and container in accordance with local regulations.

Supplemental hazard statement(s): None

Other hazards: Not known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture:	Mixture
Substance Name:	Limonene
CAS Registry Number:	5989-27-5
EINECS:	227-813-5



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Formula:	C ₁₀ H ₁₆
Synonyms:	Dipentene, (R)-(+)-Limonene, D-Limonene
Substance Name:	Phenylacetaldehyde
CAS Registry Number:	122-78-1
EINECS:	204-574-5
Formula:	C ₈ H ₈ O
Synonyms:	α-Tolylaldehyde
Substance Name:	Phenethyl alcohol
CAS Registry Number:	60-12-8
EINECS:	200-456-2
Formula:	C ₈ H ₁₀ O
Synonyms:	2-Phenylethanol, Benzyl carbinol, 2-Phenylethyl alcohol
Substance Name:	Methyl salicylate
CAS Registry Number:	119-36-8
EINECS:	204-317-7
Formula:	C ₈ H ₈ O ₃
Synonyms:	2-Hydroxybenzoic acid methyl ester, Oil of wintergreen Wintergreen oil, Methyl 2-hydroxybenzoate
Substance Name:	Methyl 2-methoxybenzoate
CAS Registry Number:	606-45-1
EINECS:	210-118-6
Formula:	C ₉ H ₁₀ O ₃
Synonyms:	Methyl o-anisate

Hazardous ingredients according to GHS

Component	Classification	Concentration
Limonene CAS No: 138-86-3 EINECS: 205-341-0	Flam. Liq. 3 H226 Asp. Tox 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	< 30 %
Phenylacetaldehyde CAS No: 122-78-1 EINECS: 204-574-5	Acute Tox. 4 H302 Skin Corr. 1B H314 Skin Sens. 1B H317 Eye Dam. 1 H318 Aquatic Chronic 3 H412	> 22 %
Phenethyl alcohol	Eye irritant 2A H319	< 23 %



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CAS No: 60-12-8		
EINECS: 200-456-2		
Methyl salicylate	Acute Tox. 4 H302	< 15 %
CAS No: 119-36-8	Eye Dam. 1 H318	
EINECS: 204-317-7		

4. FIRST-AID MEASURES

General advice

Ingestion: If swallowed, wash mouth with water if person is conscious. Never give anything by mouth to an unconscious person. The substance is classified as an aspiration hazard – do not induce vomiting. Obtain medical attention if necessary.

Skin contact: This substance may cause an allergic reaction in contact with skin. 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. Consult a physician if irritation persists.

Inhalation: This 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.

Most important symptoms and effects, both acute and delayed: This substance is considered an aspiration hazard and a skin sensitizer.

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 classified as a Category 3 Flammable Liquid

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.

Wear impermeable gloves when handling the product to avoid contact with skin.



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Environmental precautions: This substance is toxic to aquatic life with long lasting effects. However, when used according to label recommendations, this product is not expected to pose a significant hazard to the aquatic environment.

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). This product is a skin sensitizer and may cause an allergic skin reaction. Avoid contact with skin. Wash hands thoroughly after use and before eating, drinking, smoking or using the toilet. Wash contaminated clothing 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 refrigerator 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 polyethylene bulb

Colour: Light yellow

Odour: Characteristic citrus odour

Melting point / freezing point: No data available

Boiling point or initial boiling point and boiling point range: > 95 °C

Flammability: Flammable liquid and vapour

Lower and upper explosion limit / flammability limit: No data available



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Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity: No data available

Solubility: Soluble in alcohol. Insoluble in water.

Partition coefficient n-octanol / water (log value): No data available

Vapour pressure: No data available

Density and/or relative density: 0.9 : 1.1 g/cm³ at 25 °C

Relative vapour density: No data available

Particle characteristics: No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Open flames, heat and sparks.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity (calculated according to GHS)

Oral 1515 mg/kg (calculated)

Dermal > 5000 mg/kg

Inhalation > 20 mg/L

Skin corrosion / irritation: Causes severe skin burns and eye damage

Eye damage / irritation: Causes severe skin burns and eye damage

Respiratory or skin sensitization: This product is a 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: This product is considered an aspiration hazard.

12. ECOLOGICAL INFORMATION

The neat substance loaded into the bulb is classified as an aquatic pollutant, however the formulated product is not expected to have a significant impact on the environment when used according to label recommendations.

Ecotoxicity

Fish No information available

LC₅₀ (96h)

Birds No information available

Acute oral LD₅₀

Dietary LC₅₀ (8d)

Daphnia No information available

LC₅₀ (48h)

Algae No information available

EC₅₀ (96h)

Bees No information available

LD₅₀

Worms No information available

LC₅₀ (14d)

Persistence and degradability: No information available.

Bio-accumulative potential: No information available.

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:	2924
UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S.
Transport hazard class:	3,8
Packaging group, if applicable:	3
Environmental hazards:	Marine pollutant



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Special precautions for user: None

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. Bucket Funnel 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.
