

SAFETY DATA SHEET

C.F.M. PheroLure®

1. IDENTIFICATION

Product code: PCFM
Product name: C.F.M. PheroLure®
Chemical contents: Citrus flower moth pheromone: (Z)-7-tetradecenal (CAS 65128-96-3)

Product description, recommended uses and restrictions:

This product consists of citrus flower moth pheromone impregnated in a white rubber septum. This product is intended for use in agricultural crops for the monitoring of male citrus flower moth (*Prays citri*) in lemons, limes, mandarins and home and garden.

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		
Skin Irritation	Category 2	H315
Eye Irritation	Category 2	H319
Specific target organ toxicity – single exposure	Category 3	H335
Specific target organ toxicity – single exposure	Category 3	H336

Label elements

Pictograms:



Signal word: Warning

Hazard statement(s):

H315: Causes skin irritation.



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H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

Precautionary statements:

P261: Avoid breathing vapours.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves and eye protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep 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.

P319: Get medical help if you feel unwell.

P332+P317: If skin irritation occurs: Get medical help.

P337+P317: If eye irritation persists: Get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of device according to local regulations.

Supplemental hazard statement(s):

None

Other hazards: Not known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Substance loaded into a white rubber septum

Substance name: (Z)-7-tetradecenal

CAS registry number: 65128-96-3

Formula: $C_{18}H_{34}O_2$

Synonyms: (Z)-Tetradec-7-enal

Hazardous ingredients according to GHS

Component	CAS registry number	Concentration	Classification 1272/2008	EC
(Z)-7-tetradecenal	65128-96-3	100 %	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT SE 3 (H336)	



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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 may cause skin irritation. 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: The impregnated substance is not expected to be acutely toxic by inhalation, however inhalation may cause respiratory irritation, drowsiness or dizziness. If inhaled, remove the source of contamination or move victim to fresh air. Obtain medical attention if necessary.

Eye contact: The impregnated substance may cause serious eye irritation. 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: The impregnated substance may cause skin and eye irritation.

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.

Wear impermeable gloves when handling the product to avoid contact with skin. Do not touch eyes during handling.



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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). This product is a skin and eye irritant. Avoid contact with skin and eyes. 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 freezer. 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

Information provided is for (Z)-7-tetradecenal

Physical state: Liquid blend loaded into a rubber septum

Colour: Colourless to pale yellow

Odour: Characteristic pheromone odour

Melting point / freezing point: No data available

Boiling point or initial boiling point and boiling point range: No data available

Flammability: No data available



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

Flash point: 110 °C (Pensky-Martens or Grabner Miniflash)

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: No data available

Kinematic viscosity: No data available

Solubility: Not soluble in water.

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

Vapour pressure: No data available

Density and/or relative density: 0.844 – 0.853 g/cm³

Relative vapour density: 7.3 relative to air (air = 1)

Particle characteristics: No data 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: Causes skin irritation.

Eye damage / irritation: Causes serious eye irritation.

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: May cause respiratory irritation, drowsiness or dizziness.

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

This impregnated mixture is not classified as environmentally hazardous. Further, application through a dispenser is considered to have minimal ecological impact.

Ecotoxicity (neat pheromone material – extrapolated from other straight chain Lepidopteran pheromones)

Fish

LC ₅₀ (96h)	<i>Oncorhynchus mykiss</i>	6.35 mg/L*
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Birds

Acute oral LD ₅₀	> 2250 mg/kg body weight*
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Dietary LC ₅₀ (8d)	> 5620 mg/kg feed*
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Daphnia

LC ₅₀ (48h)	<i>Daphnia magna</i>	0.38 mg/L*
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Algae

EC ₅₀ (96h)	<i>Pseudokirchneriella subcapitata</i>	0.3 – 1.3 mg/L*
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Bees

LD ₅₀	Limited toxic effects observed*
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Worms

LC ₅₀ (14d)	No data available
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*based on the lowest endpoint of SCLP acetates

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.
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UN proper shipping name:	Not regulated.
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Transport hazard class:	Not regulated.
Packaging group, if applicable:	Not regulated.
Environmental hazards:	Not considered a marine pollutant.
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. Yellow Delta Trap®.

Compiled: December 2022

Reviewed: December 2022

Revision number: 1

Next revision date: December 2027

For more information, please contact the registration holder.

END OF SDS.
