

SAFETY DATA SHEET

C.R.S. PheroLure®

1. IDENTIFICATION

Product code: PCRS
Product name: C.R.S. PheroLure®
Chemical contents: California red scale pheromone: 3-methyl-6-isopropenyl-9-decen-1-ol acetate (CAS 64309-03-1)
Product description, recommended uses and restrictions:
This product consists of California red scale pheromone impregnated in a red rubber septum. This product is intended for use in agricultural crops for the monitoring of male California red scale (*Aonidiella aurantii*) in citrus.
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 Sensitizer	Category 1	H317
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

Label elements

Pictograms:



Signal word: Warning

Hazard statement(s):

H317: May cause an allergic skin reaction.

H400+H410: Very toxic to aquatic life with long lasting effects.



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Precautionary statements:

P261: Avoid breathing vapours.

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

P280: Wear protective gloves.

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

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

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

P501: Dispose of contents/container according to local regulations.

P273: Avoid release to the environment.

P391: Collect spillage.

Supplemental hazard statement(s): None

Other hazards: Not known

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / mixture: Racemic mixture loaded into a red rubber septum

Substance name: 3-methyl-6-isopropenyl-9-decen-1-ol acetate

CAS registry number: 64309-03-1

Formula: $C_{16}H_{28}O_2$

Hazardous ingredients according to GHS

Component	CAS registry number	Concentration	Classification 1272/2008	EC
3-methyl-6-isopropenyl-9-decen-1-ol acetate	64309-03-1	100	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic (H410)	

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 considered a skin sensitizer and may cause an allergic skin reaction. 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.



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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. Obtain medical attention if necessary.

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: The impregnated substance is considered a skin sensitizer and may cause an allergic skin reaction.

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 and protective equipment when handling the product to avoid contact with skin.

Environmental precautions: The neat pheromone material is considered to be very toxic to the aquatic environment with long lasting effects, however the formulated product is not expected to pose a significant hazard 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 considered a skin sensitizer and may cause an allergic skin reaction. Avoid contact with skin. Wash hands thoroughly after



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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

Information provided is for (3S,6S)-3-methyl-6-isopropenyl-9-decen-1-ol acetate and (3S,6R)-3-methyl-6-isopropenyl-9-decen-1-ol acetate.

Physical state: Liquid substance loaded into a rubber septum

Colour: Green liquid (77.2 % and 95.8 % purity)

Odour: Smell as varnish / resin

Melting point / freezing point: < - 20 °C (95.8 % purity)

Boiling point or initial boiling point and boiling point range: 280.8 °C (95.8 % purity)

Flammability: Not flammable

Lower and upper explosion limit / flammability limit: No potential for explosion

Flash point: 130.1 °C

Auto-ignition temperature: 256.5 °C

Decomposition temperature: Not available

pH: Not available.

Viscosity: Not available.

Solubility: Water: 0.0002 g/L (25 °C, 95.8% purity). Organic solvents: > 250 g/L (77.2 % purity)

Partition coefficient n-octanol / water (log value): pH 5: 6.04 (30 °C, 95.8 % purity)

Vapour pressure: 0.0260 Pa (25 °C, 95.8 % purity)

Density and/or relative density: 0.893 g/ml at 25 °C



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Relative vapour density: Not available

Particle characteristics: Not available

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	No data available.
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 > 2000 mg/kg (rat)

Dermal > 2000 mg/kg (rabbit)

Inhalation > 5 mg/L air (rat)

Skin corrosion / irritation: Not considered a skin irritant.

Eye damage / irritation: Not considered an eye irritant.

Respiratory or skin sensitization: The neat pheromone material is considered 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: Not considered an aspiration hazard.

12. ECOLOGICAL INFORMATION

This impregnated substance is considered to be very toxic to aquatic life with long lasting effects, however the formulated product is not considered to pose a significant hazard to the environment when used according to label recommendations.

Ecotoxicity

Fish

LC₅₀ (96h)

No information available

Birds

Acute oral LD₅₀

No information available

Dietary LC₅₀ (8d)

No information available



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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: Substance considered not readily biodegradable.

Bio-accumulative potential: No data 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:	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

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. C.R.S. Kit.



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For more information, please contact the registration holder.

END OF SDS.
