
1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product: **PHEROKLIP CM**
Chemical Group: Codling moth pheromone
Recommended Use: For confusion of male Codling moth *Cydia pomonella* (L.) and disruption of mating behaviour
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Customer Service Tel/Fax: Telephone +86 139-5160-3338

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Website: www.smartgreenbio.com.au
Emergency Numbers (Australia): 000 – Emergency Call Service (Fire, Ambulance, Police)
13 11 26 – National Poisons Information Centre

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE - NON DANGEROUS GOOD

Hazardous classification: Not hazardous according to the criteria of the National Occupational Health & Safety Commission (NOHSC)
Risk phrases: No R-phrases.
ADG Classification: Not a Dangerous good for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Not scheduled (Standard for the Uniform Scheduling of Drugs & Poisons).

3. COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Entity	CAS Number	Proportion
Codling moth pheromone mixture	n/a	>80%
Stabilisers	128-37-0 & 25973-55-1	<10%

The above attractant is incorporated into a sealed plastic controlled release dispenser

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poison Information Centre (Ph: 13 11 26) and follow the advice given. Show this Material Safety Data Sheet to the doctor.

General information: Do not open sealed dispensers
Do not ingest pheromone liquid or get into eyes.

The following refer to dispenser contents:

Ingestion: Administer water, do not induce vomiting. Call the poisons hotline or consult a doctor.
Eye Contact: Do not rub eyes with hands contaminated with pheromone from the dispenser surface. Check and remove any contact lenses. Rinse eyes immediately with clean water for at least 15 minutes and seek medical aid.
Skin Contact: Wash affected area well with soap and water
Inhalation: Move to well ventilated area.
First Aid facilities: Ensure eye wash is available.
Advice to Doctor: Non-hazardous material. Could cause mild irritation to eyes and delicate skin if rubbed with hands contaminated with pheromone.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire/Explosion hazard:	PHEROKLIP CM controlled release paste consists predominantly of a common plastic which will burn slowly with a smoky flame. No explosion hazard.
Extinguishing media:	Foam, Carbon dioxide (CO ₂), or Dry powder.
Hazard from combustion:	Burning may release nitrogen oxides.
Other:	Wear appropriate protective equipment.
Precautions for fighting fires:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later.
Hazchem codes:	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Safety:	No specific requirements. Do not smoke, eat or drink during the clean-up process. Wear personal protective clothing and equipment. Keep people and animals away from the area.
Environmental:	Do not allow dispenser contents to enter drains or round water. If contamination of drains, streams, watercourses etc is unavoidable warn the local water authority.
Methods:	In the event of an accident causing breakage of dispensers and leakage of contents, cover any spilt liquid with a suitable adsorbent such as sand or earth, sweep up the earth with absorbed liquid and broken paste, wrap the sweepings in several layers of paper and dispose in a local authority land fill, or in a disposal pit specifically established for the purpose of disposal of pesticide containers. Do not contaminate waterways with broken dispensers or their contents.

7. HANDLING AND STORAGE

Storage:	For short term storage refer to package details. For long term storage store in unopened sealed buckets, hold at 5°C or below. Do not store for prolonged periods in direct heat or sunlight. Keep away from possible sources of ignition. Store in a locked room away from children, animals, food, animal feed, seed and pesticides.
Handling Considerations:	Keep out of reach of children. Will irritate eyes and skin. Handle paste in a well ventilated area. Do not eat, drink or smoke whilst handling dispensers Wash hands, arms and face thoroughly after handling After each day's use wash gloves and contaminated clothing.

8. EXPOSURE CONTROLS & PERSONAL PROTECTIVE EQUIPMENT

Exposure Control Limits:	No exposure standards have been assigned to the product.
Personal Protection:	
Ventilation:	Use in a well ventilated area.
Respiratory:	Not required
Skin:	Gloves e.g. nitrile
Eyes:	None required, but avoid eye contact with dispenser and contents.
Other:	Do not eat, drink or smoke whilst handling paste. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Small sealed plastic dispensers with clip. Pheromone liquid inside.
Odour:	Slightly waxy fruity odour.
Melting Point:	Plastic softens at about 70°C

The following refer to active ingredient in the dispensers:

Vapour pressure (mm Hg. at 25 °C):	1.3-2.0 x 10 ⁻² mm Hg.
Specific gravity:	0.87-0.88
Flashpoint (°C):	No flash point for formulated product
Flammability limits (%):	Not applicable
Solubility in water:	Not soluble

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature and pressure.
Contact to avoid:	Contact with strong oxidisers, heat and naked flame.
Hazardous decomposition:	Potentially harmful oxides of carbon under thermal decomposition.
Hazardous polymerisation:	None. Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION (CONTENTS OF DISPENSERS)

Animal toxicity data:

Pheromone component:

Test	Test Organism	LD50
Acute Dermal	Rabbit	>5000mg/kg bw
Acute Oral	Rats	>4500mg/kg bw
		Rating
Dermal Irritation	Rats	Slight
Eye Irritation	Rats	Slight to moderate

Test	Test Organism	LD50
Acute Dermal	Rats	>5000mg/kg bw
Acute Oral	Rats	>3600mg/kg bw
		Rating
Dermal Irritation	Rats	Slight to moderate
Eye Irritation	Rats	Slight to moderate

12. ECOLOGICAL INFORMATION

General:	Avoid contamination of soil, ground & surface water with contents of dispensers
Accidental Breakage:	In the event of accidental breakage cover with suitable adsorbent, sweep up adsorbent and pheromone, wrap in several layers of paper and dispose of at local authority land fill.

13. DISPOSAL CONSIDERATIONS

Used dispensers	PHEROKLIP CM pheromone dispensers can be allowed to degrade on the trees or may be removed and disposed of in municipal garbage. Empty foil containers should not be burnt.
Unused dispensers	Seal packs using a steam iron, refrigerate and use next year or dispose of at local authority landfill .

14. TRANSPORT INFORMATION

No dangerous goods class allocated.	
UN Number:	Not applicable
Proper Shipping name:	Not applicable
Class and subsidiary risk:	Not applicable
Packing Group:	Not applicable
EPG:	Not applicable

Hazchem code:	Not applicable
RID/ADR	Non-hazardous for road transport
IMDG	Non-hazardous for sea transport
IATA	Non-hazardous for air transport

15. REGULATORY INFORMATION

This product does not require registration under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth).

16. OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of the how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made the user should contact this company.