



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product: **Isomate C-OFM TT Pheromone Insect Confusion Agent**

Chemical Group: Insect pheromone

Recommended Use: For control of codling moth and oriental fruit moth by mating disruption.

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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
E,E-8,10-dodecadien-1-ol	33956-49-9	>30%
Dodecanol	112-53-8	>20%
Tetradecanol	112-72-1	>5%
Z-8-dodecenyl acetate	28079-04-1	>10%
E-8-dodecenyl acetate	38363-29-0	>5%
Stabilisers	128-37-0 & 25973-55-1	<10%

The above liquid is enclosed in polyethylene (CAS 9002-88-4) capillaries.

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 rupture dispenser tubes. Polyethylene unlikely to cause irritation.
The following refer to dispenser contents:

Ingestion: Administer water, do not induce vomiting. Call poisons hotline or consult a doctor.

Eye Contact: Do not rub eyes with hands contaminated with codling moth or oriental fruit moth pheromone. 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 oriental fruit moth and codling moth pheromone. Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Fire/Explosion hazard:	Isomate C-OFM TT slow release dispensers consist predominantly of polyethylene which burns slowly with a smoky flame. No explosion hazard.
Extinguishing media:	Water spray, Carbon dioxide (CO ₂), Foam, Dry chemical.
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 dispensers, 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 original foil envelopes, 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 dispensers 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.
Other:	Do not rupture polyethylene dispenser tubes.
<u>Personal Protection:</u>	
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.

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Other: Do not eat, drink of smoke whilst handling dispensers. Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Sealed plastic capillaries 200 mm long, 3 mm diameter.
 Odour: Slight fruity/waxy odour of pheromone.
 Melting Point: Dispensers melt at 70°C

The following refer to dispenser contents:

Vapour pressure: 5.3×10^{-3} mm Hg at 20°C
 Specific gravity: 0.857-0.964g/ml
 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 (INTERNAL CONTENTS OF DISPENSER)

Animal toxicity data:

Oriental fruit moth Technical Component:

Test	Test Organism	LD50
Acute Oral	Sprague-Dawley Rat	>17.12g a.i/kg bw
Acute Dermal	Sprague-Dawley Rat	>2.0g a.i/kg bw
Acute Inhalation	Sprague-Dawley Rat	>4.74mg a.i/L
		Rating
Dermal Irritation	New Zealand White Rabbit	Slight
Eye Irritation	New Zealand White Rabbit	Minimal
Mutagenicity Ames Test	Salmonella typhimurium TA97	Non Mutagenic

Codling moth Technical Component:

Test	Test Organism	LD50
Acute Oral	Rats	>5000mg/kg bw
Acute Dermal	Rats	>2000mg/kg bw
		Rating
Dermal Irritation	Rats	Slight to moderate
Eye Irritation	Rats	Slight to moderate
Not listed as a carcinogen by NTP, I.A.R.C of OSHA		

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 layer of paper and dispose of at local authority land fill or other location suitable for pesticide container disposal.

13. DISPOSAL CONSIDERATIONS



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Used Dispensers: Isomate C-OFM TT dispensers can be manually gathered and disposed of with municipal rubbish. Empty containers and product should not be burnt.

Unused Dispensers: Dispose of at local authority landfill or other location suitable for the for pesticide container disposal. Containers and product should not be burnt.

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

Registered under the Agricultural and Veterinary Chemicals Act 1988 (Commonwealth) Australian Pesticides and Veterinary Medicines Authority approval number: 62273

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.

END OF MSDS