

X-Mate[®] C.G.O.

Reg. No. / Nr. L 11563 Act 36 of 1947
READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

X-Mate[®] C.G.O. is a ready-to-use, pheromone based, mating disruption product, which disorients male citrus flower moth (*Prays citri*) resulting in the failure of the male moths to locate the female moth, thereby reducing mating. **X-Mate[®] C.G.O.** is used in citrus orchards and is ideal where Integrated Pest Management programs are followed



WARNING

Hazard statements

Causes skin irritation.
Causes serious eye irritation
May cause respiratory irritation

Precautionary statements

Wear protective gloves.
Wash hands thoroughly after handling.

Active ingredients

(Z)-7-tetradecenal

1000 g/kg

Total

1000 g/kg

_____ x devices / pack

REGISTRATION HOLDER

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Batch No.:
Date of manufacture:
Expiry Date:

UN No. Not regulated
In case of poisoning, call the following number: 0861 555 777
Emergency number 082 446 8946

WARNINGS

- Handle with care.
- Keep away from children and uninformed persons and animals.
- May cause skin irritation.
- Wear protective gloves and wash hands thoroughly after handling.
- Store in a freezer.
- No pre-harvest interval is established for the use of **X-Mate® C.G.O.** as it is not applied directly onto the crop. No residues are expected if used according to label instructions.
- Use within 24 months of manufacturing date.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions. The action and effect thereof may be affected by factors such as abnormal climatic and storage conditions such as excessive winds and rain, the occurrence of resistance of pests, and by the method and timing of application. The registration holder does not accept responsibility for damage to crops, vegetation and the environment, harm to man or animal, or for the lack of performance of the remedy concerned, due to failure of the user to follow the label instructions, or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of uncertainty.

PRECAUTIONS

- Avoid contact with skin. Wear protective gloves.
- Avoid breathing vapours.
- Use only outdoors or in a well-ventilated area.
- IF ON SKIN: Wash with plenty of water.
- If skin irritation occurs: get medical help.
- Take off contaminated clothing and wash it before reuse.
- Dispose of used devices in accordance with local regulations. Do not leave devices in the field indefinitely.

RELEVANT SUBSTANCES

(Z)-7-tetradecenal (CAS 65128-96-3, 100%)

FIRST AID

- Ingestion: The neat pheromone blend is not considered to be acutely toxic by ingestion. If swallowed, wash mouth with water if person is conscious. Never give anything by mouth to an unconscious person. The device may pose a choking hazard. Obtain medical attention if necessary.
- Skin: The neat pheromone blend 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.
- Eyes: The neat pheromone blend is not considered to be an eye irritant. If product comes into contact with eyes, immediately flush eyes with clean water for several minutes, holding the eyelids open. If present, remove contact lenses after 5 minutes. Continue rinsing.
- Inhalation: The neat pheromone blend is not expected to be acutely toxic by inhalation. If inhaled, remove the source of contamination or move victim to fresh air.

DIRECTIONS FOR USE

Only use as directed.

General use restrictions:

FACTORS AFFECTING MATING DISRUPTION

Block size: For optimal efficacy do not treat blocks smaller than 10 hectares, if the blocks surrounding the treatment block have not been treated for citrus flower moth. Dispensers must be applied uniformly throughout the treated area and will be more effective in blocks where trees are uniform compared to blocks where trees are missing. Avoid treatment of long and narrow areas.

Shelter: Pheromone concentration will always be higher closer to the dispenser. Control may be compromised in windy or exposed situations and on slopes affected by air movement.

Population size: X-Mate® C.G.O. will be more effective if damage in the previous season was low. Supplementary insecticidal control measures should be considered if information on population density is unavailable or if population pressure is very high.

Isolation: Mated females from external sources may immigrate into blocks under treatment. To reduce the risk associated with immigration, infested blocks within 50 meters from the treated block should be managed by treating host plants with a registered insecticide. The larger the area under mating disruption, the smaller the edge effect of mated immigrant females.

Climate: The wind has an effect similar to the border effect, preventing the pheromone cloud from maintaining the necessary concentration. The wind and temperature in the orchard will influence the pheromone release rate.

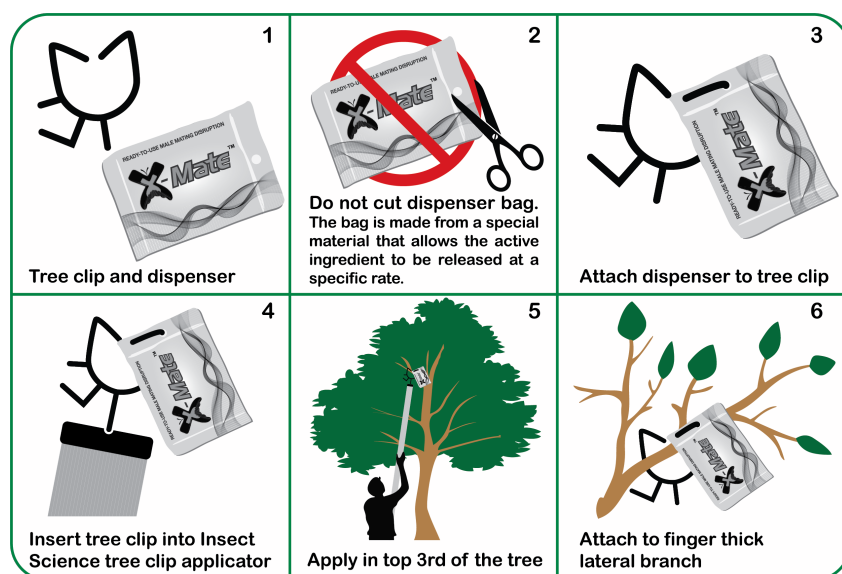
X-Mate® C.G.O is recommended for all susceptible cultivars.

Application instructions:

Do not cut dispenser bag open (see illustration below).

Attach the dispensers to the tree-clip (supplied) and apply the tree-clip with dispenser to a lateral branch (finger thickness) in the top third of tree / vine in such a way that it is not exposed to direct sunlight. Do not place the dispenser too deep into the canopy, as free airflow is required to distribute the pheromone for optimal disruption.

Use the Insect Science tree-clip applicator or any suitable applicator such as a telescopic aluminium pole for bigger trees to ensure that the dispenser is placed in top third of tree (see illustration below).



Application rate:

Use 40 **X-Mate® C.G.O** dispensers in total per hectare, irrespective of tree density. Always ensure 1 dispenser is placed per 250 m². Hang the dispensers evenly and uniformly throughout the orchard.

Timing:

Hang **X-Mate® C.G.O** dispensers out at citrus flower moth emergence. Hang 40 **X-Mate® C.G.O** dispensers in all relevant orchards.

Monitoring of male moths:

Use Citrus flower moth pheromone traps (1 trap / 5 ha) to monitor male moth flights. It is recommended that traps are used and placed in the top 1/3 of the tree to determine the citrus flower moth emergence patterns.

Place citrus flower moth monitoring traps in the orchard 4 weeks before flowering and inspect weekly until the end of harvest period. Replace lures and traps as recommended by the label.

Additional control measures:

Mating disruption is always more effective in orchard where the citrus flower moth pressure is lower. If moderate to high moth populations are present, spray a registered insecticide, according to the label, additional to the mating disruption program.

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INSECT SCIENCE (Pty) Ltd.

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