

CITRUS FRUITS, CALAMONDIN, CHIRONJA, ETC. - THRIPS, MEALYBUGS

General Information

Product Information

Govern 4E insecticide is an emulsifiable concentrate for use in listed crops. This product resists washoff once it is dry. Target pests and application rates are provided in the accompanying tables.

Use Precautions and Restrictions

Insect control may be reduced at low spray volumes under high temperature and wind conditions.

Some reduction in insect control may occur under unusually cool Conditions

Do not aeriaily apply this product in Mississippi.

Insecticide Resistance Management (IRM) Govern 4E contains a Group 1B insecticide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Govern 4E or other Group 1B insecticides.

To delay development of insecticide resistance, the following practices are recommended:

- Avoid consecutive use of insecticides with the same mode of action (same insecticide group) on the same insect species.
- Use tank mixtures or premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for the intended use.

- Base insecticide use on comprehensive Integrated Pest Management (IPM) programs.
- Monitor treated insect populations in the field for loss of effectiveness.
- Contact your local extension specialist, certified crop advisor, and or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, call 800-258-3033.

Limitations, Restrictions, and Exceptions

Citrus Fruits

(Not for use in Mississippi)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 5 days unless PPE required for early entry is worn.

Citrus fruits including calamondin, chironja, citrus citron, citrus hybrids, grapefruit, kumquat, lemon, lime, mandarin (tangerine), pummelo, satsuma mandarin, sour orange, sweet orange, tangelo, tangor Apply as a concentrate or dilute spray using conventional, power-operated spray equipment. Use a higher rate in the rate range when there is increased pest pressure. Use sufficient water to ensure thorough and complete coverage of the foliage and fruit.

For dilute sprays (greater than 200 gpa), use a spray concentration of at least 0.5 pints of Govern 4E per 100 gallons of finished spray.

Complete coverage is not necessary for outside canopy sprays targeting certain pests such as lepidoptera insects and katydids. Treat when pests become a problem or in accordance with the local spray schedule as specified by your State Agricultural Experiment Station, certified Pest Control Advisor, or Extension Service Specialist. To avoid excessive ridging, do not apply Govern 4E to citrus from December 1 up to the initiation of bloom (5% visible bloom).

Use of Spray Oils: To improve control of aphids, mealybugs, scale insects, and thrips, a petroleum spray oil recommended for use on citrus trees may be added to

spray mixtures at up to 1.8 gallons per 100 gallons of spray.

Specific Use Precautions:

- Observe local recommendations for tank mix combinations especially with regard to use of Govern 4E with spray oil. Do not use penetrating surfactants in tank mixes with Govern 4E.

Consult with a county farm advisor, county agency, extension service personnel, agricultural commissioner, or pest control advisor for local recommendations.

- Do not apply when trees are stressed by drought or high temperatures.
- Govern 4E is highly toxic to bees exposed to direct treatment and must not be applied when bees are actively visiting the area. During the citrus bloom period in California, apply from 1 hour after sunset until 2 hours before sunrise.
- Do not use Govern 4E in combination with spray oil when temperatures are expected to exceed 95°F on the day of application or for several consecutive days thereafter.

Specific Use Restrictions:

- Preharvest Interval: Do not apply within 21 days before harvest for applications of up to 7 pints of Govern 4E per acre or within 35 days for application of rates above 7 pints per acre.
- Do not apply more than 15 pints of Govern 4E (7.5 lb ai chlorpyrifos) per acre per year.
- Do not make more than two applications of Govern 4E or other product containing chlorpyrifos per year (does not include citrus orchard floors).
- Do not make second foliar application of Govern 4E or other product containing chlorpyrifos within 30 days of the first application.
- The use of application rates greater than 8 pints of Govern 4E (4 lb ai chlorpyrifos) per acre are allowed only in the following counties in California: Fresno, Tulare, Kern, Kings, and Madera.
- Do not allow meat or dairy animals to graze in treated areas.

Method

[Foliar spray](#)

Pre-Harvest Interval

35 days

Rates

[field rates 0](#)

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Restricted Entry Interval

5 days

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[N.A.](#)