

# **CITRUS - CITRUS LEAFMINER - PENDING REGISTRATION IN CALIFORNIA**

## General Information

### GENERAL INFORMATION

Confirm 2F insecticide mimics the action of the natural insect hormone 20-hydroxyecdysone, the physiological inducer of the molting and metamorphosis process in insects. Confirm 2F is highly active against most lepidopterous larvae while having practically no activity at typical use rates against other orders of insects. The selectivity of Confirm 2F allows for the maintenance of the populations of beneficial and predatory insects, which is a key element in integrated pest management programs. Confirm 2F controls lepidopterous larvae through a novel mode of action by the induction of a premature lethal molt which initiates within hours of ingestion of treated crop surfaces. Contact activity has also been observed in some insects. Actual death of the larvae will take several days to occur, although feeding by the insects generally ceases within 24 hours of ingestion.

### Application Timing

The activity of Confirm 2F is expressed primarily through ingestion by the target larvae. Consequently, the timing of application is dependent upon the feeding behavior of the target pest. For internal feeding larvae, application must be made prior to the time that surface feeding occurs. For foliar or surface feeding larvae, application made while active feeding is occurring will be effective.

Reapplication may be required to protect new flushes of foliage or rapidly expanding fruit. The reapplication interval will vary depending upon how rapidly the crop is growing and the generation time of the target pest. While Confirm 2F is essentially equally effective against all instars, it is generally good practice to make applications to early instars to avoid the heavy damage that can be inflicted by later instar larvae. For best results, begin applications when first signs of feeding damage or when threshold levels of moths, eggs or larvae occur. Consult the Cooperative Extension Service, or other qualified professional authorities, to determine the appropriate threshold for application in your area.

## Limitations, Restrictions, and Exceptions

### APPLICATION TIMING

Apply at the initiation of new flush to protect newly of application. expanding leaves.

### Specific Use Directions

Equipment and spray volume should be carefully adjusted to assure thorough uniform coverage of infested parts of the crop.

Ground Application: Apply a minimum of 50 gallons per acre to trees 10 feet tall or less by conventional ground equipment. For trees greater than 10 feet tall, use a minimum of 100 gallons per acre.

Aerial Application: Apply a minimum of 20 gallons per acre in equipment that has been properly patterned and calibrated for environmental conditions at the site. This method should not be used if the size of the tree or density of the foliage prohibits thorough, uniform coverage of the entire tree canopy.

Spray Adjuvants: The use of a spreader/sticker is recommended to maximize coverage and retention of the spray material. Addition of a crop oil or other adjuvant with strong penetrant properties may improve performance against citrus leafminer.

Note: This product is toxic to aquatic invertebrates. Refer to the Environmental Hazards section of the product label attached to the product container for required protective measures.

### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

### Pre-Harvest Interval

14 days

### Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

4 hours

Timings

[At the initiation of new flush.](#)