

CITRUS FRUIT GROUP 10-10 - KATYDIDS AND GRASSHOPPERS

General Information

INFORMATION

MICROMITE 2L is an insect growth regulator which is effective on a wide variety of insect pests, predominately from the families Lepidoptera and Diptera. Because of its mode of action, which results in a disruption of the normal molting process of the insect larvae, the action of MICROMITE 2L is slow and several days may elapse before the full effect is seen. Because of its specificity, MICROMITE 2L is an excellent product for use in IPM programs.

RESISTANCE MANAGEMENT: When used as directed MICROMITE 2L provides control of a number of important insect pests as well as providing a margin of safety to beneficial insects and pollinators. MICROMITE 2L should be part of an IPM program that follows good management practices that include:

- Scouting regularly and use MICROMITE 2L against early immature stages for best results
- Always follow the label rate and timing directions
- Use chemical alternatives such as oil and preserve beneficial arthropods as part of an IPM program
- Maintain good coverage of all leaf surfaces with adequate water volume
- Alternate treatments to classes of insecticides with different modes of action

RESTRICTIONS

Do not apply this product to bodies of water where swimming is likely to occur.

Restriction on Rotational Crops: Do not plant food or feed crops in diflubenzuron treated soils within 1 month following last application unless diflubenzuron is authorized for use on these crops.

APPLICATION INSTRUCTIONS

USE AND MIXING DIRECTIONS IF USED WITH WATER:

1. Fill tank with half of the required amount of water.
2. Begin agitation and add required amount of MICROMITE 2L.

3. Continue agitation while adding remainder of water.
4. If permitted for the use site, add proper quantity of oil slowly. To avoid formation of an invert emulsion use at least 2 parts of water for each part of oil.

Limitations, Restrictions, and Exceptions

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RESTRICTIONS:

Maximum MICROMITE 2L allowed per year: Do not apply more than 60 fluid ounces (15 oz. ai.) per acre per year. MICROMITE 2L may be applied as three full rate applications of 20 fluid ounces per acre per year, or six split applications of 10 fluid ounces per acre per year, or a combination of full and split applications.

Maximum number of applications allowed per year: three full rate applications or six split applications, not to exceed 60 fluid ounces (15 oz. ai.) per acre per year.

Re-treatment interval: Repeat applications no closer than 30 days apart, except where split applications are used. See pest specific sections below for split application directions.

Pre-harvest interval: Do not apply within 7 days of harvest.

Do not harvest cover crops for animal feed or graze livestock in treated groves.

Ground Application: MICROMITE 2L may be applied by ground using hand-held, hand gun, air blast or air assisted equipment. Do not apply within 25 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. In the State of Florida, do not apply within 100 feet of estuarine/marine bodies of water. Spray last three rows windward of surface water using nozzles on one side only, with spray directed away from surface water. Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove when spraying the outside row. Shut off nozzles when turning at ends of rows and passing tree gaps in rows.

Aerial Application: Use fixed-wing or rotary equipment. Do not apply within 150 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. In the State of Florida, do not apply within 1000 feet of estuarine/marine bodies of water.

DIRECTIONS FOR USE

Spray Volumes: Use sufficient spray volume for thorough coverage of leaf surfaces. For High Volume: Ground = 50 to 1,000 gallons per acre; Aerial = 5 to 20 gallons per acre. For low volume application: Spray nozzles that produce a droplet size with a volume median diameter of 90 microns or larger are required (see pest specific sections below).

* 1 fl oz MICROMITE 2L per acre equals 0.0156 pounds active ingredient per acre

KATYDIDS AND GRASSHOPPERS

Application Timing

Apply 20 fluid ounces of MICROMITE 2L per acre when katydids or grasshoppers are first observed or recent leaf and/or fruit feeding is seen.

Split Application: Applying a split application of MICROMITE 2L may be useful in maximizing spray coverage and protection of fruit and leaves from katydid and/or grasshopper damage. Spray 10 fluid ounces per acre when katydids and/or grasshoppers are first observed, or recent leaf and/or fruit feeding is seen. Apply the second application of MICROMITE 2L at 10 fluid ounces per acre as needed to protect new growth. Do not apply subsequent applications of MICROMITE 2L for at least 30 days.

The addition of petroleum spray oil, such as FC435-66, enhances spray coverage and penetration of MICROMITE 2L into katydid and grasshopper eggs, nymphs, and adults; improving activity on each life stage. MICROMITE 2L's activity on katydids and grasshoppers is through contact, ingestion, and/or absorption. It has direct activity on eggs and nymphs by preventing eggs from hatching and nymphs from molting. Adult female katydids and grasshoppers that feed on or contact treated surfaces produce fewer eggs able to hatch. MICROMITE 2L reduces the reproductive potential of an existing katydid and/or grasshopper population. MICROMITE 2L does not control adult katydids or grasshoppers.

MICROMITE 2L may be applied to citrus during any time of the year, but will have greatest impact on the largest spectrum of pests when new flush is emerging and/or present.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

7 days

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[When katydids or grasshoppers are first observed or recent leaf and/or fruit feeding is seen.](#)