

CITRUS FRUIT GROUP 10-10 - ASIAN CITRUS PSYLLID (ACP) (DIAPHORINA CITRI)

General Information

PRODUCT 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.

USE RESTRICTIONS

- Do not apply this product to bodies of water where swimming is likely to occur.
- For Carrots: Do not apply this product to carrots grown for seed.
- For Field Crops, Row Crops, Orchard Uses, Grassland and Non- Crop Areas: Do not apply within 25 feet by ground or 150 feet by air of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. All applications must include a 25-foot vegetative buffer strip within the buffer zone to decrease runoff.

RESTRICTIONS ON ROTATIONAL CROPS: Do not plant food or feed crops in

MICROMITE 2L treated soils within 1 month following last application, unless MICROMITE 2L 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.

USE AND MIXING DIRECTIONS IF USED WITHOUT WATER:

Always evaluate any potential mixture for compatibility and sprayability. To ensure thorough mixing of MICROMITE 2L with insecticides or other carriers, premix ingredients in a nurse tank prior to being transferred to aerial or ground ULV application equipment. If nurse tank is not available, or unable to simultaneously mix:

1. Fill tank with the required amount of oil and/or oil based insecticide.
2. Begin agitation and add required amount of MICROMITE 2L.
3. After the contents of the tank have been thoroughly agitated, a volume of carrier sufficient to fill the booms and piping system should be drained and then added back to the tank.

APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION

MICROMITE 2L may be applied through properly equipped chemigation systems for insect control in grassland and row crops. Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

In order to calibrate the irrigation system and injector to apply the mixture, determine the following: 1) Calculate the number of acres irrigated by the system; 2) Set the irrigation rate and determine the number of minutes for the system to

cover the intended treatment area; 3) Calculate the total gallons of the mixture needed to cover the desired acreage. Divide the total gallons of mixture needed by the number of minutes to cover the treated area. This value equals the gallons per minute that the injector must deliver. Convert the gallons per minute to ounces per minute. Calibrate the injector pump with the system in operation at the desired irrigation rate. It is suggested that the injector pump be calibrated at least twice before operation, and the system be monitored during operation.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

If the chemigation system is connected to a public water supply, the following conditions must also be met:

- Public water systems mean a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually

shutdown.

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
- Upon completion of insecticide application, remove scale, pesticide residues, and other foreign matter from the supply tank and entire injector system. Flush thoroughly with clean water.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION

For continuously moving systems, the mixture containing MICROMITE 2L must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. If continuously moving irrigation equipment is used, apply in no more than 0.25 inch of water. For sprinkler systems that do not move during operation, apply in no more than 0.25 inch of irrigation immediately before the end of the irrigation cycle.

Maintain continuous agitation of the pesticide supply tank for the duration of the application period.

To apply a pesticide using sprinkler chemigation, the chemigation system must meet the following specifications:

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut

down.

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

Limitations, Restrictions, and Exceptions

CITRUS FRUIT GROUP 10-10 RESTRICTIONS

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

Maximum number of applications allowed per calendar year: three full rate applications or six split applications, not to exceed 60 fl oz of MICROMITE 2L (15 oz diflubenzuron ai) per acre per calendar year.

Re-treatment interval: Repeat applications no closer than 30 days apart, except where split applications are used. See the following pest specific sections 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 the following pest specific sections).

Note: 1 fl oz MICROMITE 2L per acre equals 0.0156 pounds active ingredient per acre.

Application Timing

Apply 20 fluid ounces of MICROMITE 2L per acre when very early-feather leaf flush is present, or oviposition by Asian citrus psyllid (ACP) is expected or seen, or leaf distortion is evident.

Split Application: Applying split applications of MICROMITE 2L will maximize spray coverage of the entire citrus leaf flush. Spray 10 fluid ounces per acre when very early-feather leaf flush is present, or oviposition by ACP is expected or seen, or leaf distortion is evident. Apply the second application of MICROMITE 2L at 10 fluid ounces per acre as needed to protect new flushes of growth. Do not apply subsequent applications of MICROMITE 2L for at least 30 days.

Low Volume Application: Except in California, apply in 3.0 to 5.0 gallons of finished spray solution per acre by ground using air-blast or air-assisted spray equipment. Spray nozzles that produce a droplet size with a volume median diameter of 90 microns or larger are required. In California, do not apply in a volume of less than 10 gallons per acre.

The addition of petroleum spray oil, such as FC435-66, enhances spray coverage and penetration of MICROMITE 2L into ACP eggs, nymphs, and adults; improving activity on each life stage.

MICROMITE 2L's activity on ACP is through contact, ingestion and/or absorption. It has direct activity on eggs and nymphs of ACP. MICROMITE 2L prevents eggs from hatching and nymphs from molting when exposed to treated surfaces. Adult female ACP that feed on or contact treated surfaces produce fewer eggs able to hatch. MICROMITE 2L reduces the reproductive potential of an existing ACP population. MICROMITE 2L does not control adult ACP.

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 very early-feather leaf flush is present, or oviposition by Asian citrus psyllid \(ACP\) is expected or seen, or leaf distortion is evident.](#)