

# **SHADEHOUSE, GREENHOUSE, FIELD-GROWN ORNAMENTALS, ETC. - LIRIOMYZA LEAFMINERS**

## General Information

### GENERAL INFORMATION

Flora-Mek 0.15EC is an emulsifiable concentrate containing 0.15 lb. abamectin per gallon which when mixed with water according to the directions for use will control leafminers and mites and suppress whiteflies, thrips, and aphids on ornamentals.

Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. For mites, apply when mites first appear and repeat as necessary to maintain control. For leafminers, apply as needed and repeat at 7-day intervals or as necessary to maintain control.

For suppression of aphids, thrips, and whiteflies apply when young, immature stages of these pests are first observed and repeat every 7 days for 2 or 3 weeks. After which time, rotate to other products that have different modes of action than Flora-Mek 0.15EC for at least 2-3 weeks. Refer to the Resistance Management section for additional comments on rotation. Aphids, thrips, and whiteflies are killed by direct contact with the Flora-Mek 0.15EC spray.

Residual control of pests may be enhanced with the addition of a horticultural spray oil at a 0.5 to 1.0 % of the spray volume on field-grown woody ornamentals, landscape plants, and Christmas trees. Repeat application as necessary, but no sooner than 7 days to maintain control. Some plants are sensitive to oils and so without prior experience the user should spray a small number of plants and observe plants for 2 weeks before spraying the remaining plants. Excessive cold or warm temperatures may increase the chance of plant damage following application with oils. Carefully read and follow direction on the oil label and do not exceed maximum rates listed on either label.

## Resistance Management

Treatment may not be effective against these pests if Flora-Mek 0.15 EC tolerant strains develop. Therefore, when applying Flora-Mek 0.15 EC to plants that are

hosts of labeled pests with multiple generations per crop or year, resistance management strategies must be used. Such strategies may include, but are not limited to, portion of products with different modes of action, avoid treatment of successive generations with the same product, use of labeled rates at specified spray intervals, non-chemical alternatives such as beneficial arthropods, rotation of susceptible to non-susceptible plants, and various cultural practices. For additional information on the implementation of these or other resistance management strategies, consult with your State Cooperative Extension Service.

To manage susceptibility in *Liriomyza* leafminer species, apply a maximum of 3 applications of Flora-Mek 0.15 EC and then rotate to Citation for a maximum of 3 applications, before rotating back to Flora-Mek 0.15 EC or using another product. The rotation between these 2 products with different modes of action should be based on the generation time of *Liriomyza* species to avoid applying Flora-Mek 0.15 EC to successive generations.

#### Restrictions

Do not use Flora-Mek 0.15 EC for suppression of aphids, whiteflies, and thrips on roses, chrysanthemums, and gerbera. These ornamentals are primary hosts of mites and *Liriomyza* leafminers for which Flora-Mek 0.15 EC applications should be targeted. Additional applications of Flora-Mek 0.15 EC to suppress aphids, thrips, and whiteflies on these plants will increase the selection pressure on mites and *Liriomyza* leafminers which may result in greater tolerance to Flora-Mek 0.15 EC among these pests.

Do not apply this product through any type of irrigation system.

Not for aerial application

Do not use in citrus nurseries.

#### Limitations, Restrictions, and Exceptions

Shadehouse, Greenhouse, Field-Grown Ornamentals, Foliage Plants, Christmas Trees, and Other Woody Ornamentals

Comments:

Repeat at 7-day intervals or as necessary to maintain control.

Liriomyza Leafminers: Apply, for example, in 100-200 gals. of water/A. In water volumes below 100 gals., use a minimum of 8 fl. oz./A. If more than 200 gals. of water/A are required for good plant coverage, apply the maximum rate of 16 fl. oz./A. For example, if 400 gals. of water are required, use 4 fl. oz./100 gals.

General Information Per Application: Do not apply less than 8 fl. oz. or more than 16 fl. oz./A. Use sufficient water to obtain uniform plant coverage. Refer to the Resistance Management section and the Restrictions section for additional information.

Method

[Foliar spray](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[N. A.](#)