

# **ORNAMENTALS GROWN IN GREENHOUSES (SHRUBS, EVERGREENS, ETC.) - FOLIAR APPLICATIONS**

## General Information

### DIRECTIONS FOR USE

For foliar and systemic insect control on ornamental plants in greenhouses, nurseries, and interior plantscapes, including nonbearing fruit and nut trees (i.e., trees that will not bear fruit or nuts for one year after application) and vegetables for resale.

### APPLICATION INFORMATION

KONTOS is a Suspension Concentrate formulation. Following application to plant foliage, KONTOS is fully systemic, moving through phloem and xylem to all plant tissues including new shoot, leaf and root growth. Spray adjuvants with spreading / penetrating characteristics may improve leaf uptake and systemic concentration of active ingredient. The active ingredient contained in KONTOS is active primarily by ingestion. Fecundity of adult insects and mites may be reduced. Make applications as preventative treatments or to coincide with early threshold levels in developing insect and mite populations. KONTOS can be applied by ground equipment (including hand-held application equipment) or through chemigation.

### FOLIAR SPRAY APPLICATIONS

Foliar applications must be made using properly calibrated ground sprayers (including hand-held and backpack sprayers), through properly designed, sprinkler-type, chemigation equipment (See Chemigation Application directions below).

Application through irrigation systems

KONTOS may be applied at rates on the label either alone or in tank mixture with other pesticides and chemicals registered for application through irrigation systems. The normal dilution ratio is 1:10 to 1:200, depending on the system. Always meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation may be necessary if the mixture is allowed to stand more than 24 hours.

Remove scale, pesticide residue and other foreign matter from the tank and entire irrigation system.

Apply KONTOS only through microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation, ebb and flood, or handheld or motorized calibrated irrigation equipment. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have any 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 a person who is under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Ebb and Flood Application: To assure accurate uptake, it is recommended that, prior to treatment, a minimum of 10 plants be brought up to a known field capacity and allowed to dry out for one or two days. Rewet these plants to determine how much water on average each plant will absorb to bring it back to field capacity. Use the volume absorbed per plant (keeping pot sizes uniform) multiplied by the number of pots being treated. Add to this volume a required minimum amount to flood the smallest treatment area. This process should minimize the return back to the storage tank. Re-use the returned volume with subsequent irrigation or nutrients on the same plants.

## CROP TOLERANCE

KONTOS has been evaluated for phytotoxicity on a wide range of ornamental plants. However, due to the large number of species and varieties of ornamental plants, it is impossible to test every one for tolerance to KONTOS. Prior to commercial use, determine if KONTOS can be used safely. In a small area, test the rates on a small number of plants for phytotoxicity prior to widespread use. Before using KONTOS in tank mixture with other products and adjuvants, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

If you have any questions, consult your local OHP, Inc. representative, or call the OHP, Inc. technical service hotline at 1-800-356-4647.

KONTOS is not recommended for use on the following varieties: geraniums (*Pelargonium* spp.), orchids, hoya, *Dracaena*, *Cordyline*, *Schefflera*, *neanthebella* palm, and ferns.

Do not make more than one application per season to *Hydrangea*, *Impatiens* spp., crotons (*Codiaeum* spp.), *Fuschia* hybrids, *Petunia*, *Peperomia*, stock, or cyclamens (*Cyclamen* spp.).

### Limitations, Restrictions, and Exceptions

#### ORNAMENTALS GROWN IN GREENHOUSES (FOLIAR APPLICATIONS)

Shrubs, Evergreens, Trees - including Non-bearing Fruit and, Nut Trees

Non-bearing fruit and nut trees are those trees that will not bear fruit or nuts for one year after application.

For foliar insect control in greenhouses.

#### USE RESTRICTIONS

Do not apply more than 25 fl oz (750 mL, 0.4 lb of active ingredient) per acre of nursery per season (excluding vegetable transplants).

Do not apply more than 10 fl oz of product (300 mL, 0.16 lb of active ingredient) per acre per season to vegetable transplants.

Minimum interval between foliar applications to vegetable transplants: 7 days

Do not apply to greenhouse grown vegetables other than vegetables transplants.

Remarks:

Foliar applications: Start treatments prior to establishment of high pest population and reapply on an as-needed basis.

Apply when pests first appear or when damage is first noticed. Spray thoroughly.

The addition of a spreader sticker may improve efficacy.

Make ground applications to foliage in a minimum of 10 gallons of spray solution per acre.

Make airblast application in a minimum of 50 gallons of spray solution per acre.

If concentrate or mist type spray equipment is used, use an equivalent amount of product on the area sprayed as would be used in a dilute application.

Reapply at 14-28 days interval, if needed.

Notes:

- Mealybugs: If populations are heavy, make two foliar applications at 14-21 day intervals to control mealybug larvae that emerge after the first application.
- Mites - If populations are heavy at the time of application, control may not be achieved rapidly enough to prevent economic damage to the plant. Make applications preventatively, or when populations are first detected. KONTOS will not control heavy populations of spider mites. If a second miticide application is necessary to achieve control, use a product with an alternative mode of action.
- Thrips: Full control of thrips will be observed only on foliage; thrips in buds will be suppressed. If populations are heavy at the time of application, control may not be achieved rapidly enough to prevent economic damage to the plant. Make applications preventatively, or when populations are first detected on foliage.

Method

[Foliar spray](#)

## Rates

[field rates 0](#)

[field rates 1](#)

[field rates 2](#)

[field rates 3](#)

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## Restricted Entry Interval

24 hours

Exception: If the product is applied by drenching 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

[Prior to establishment of high pest population and reapply on an as-needed basis.](#)