

FOR FOLIAR AND SYSTEMIC INSECT CONTROL ON ORNAMENTALS, FRUIT AND NUT TREES, AND VEGETABLE PLANTS IN GREENHOUSES, NURSERIES AND INTERIORSCAPES

GENERAL INFORMATION

Kontos™ is a new systemic insecticide from the tetramic acid class of chemistry (MOA Group 23).

Kontos can be applied as a foliar spray or drench and controls a number of major sucking insect and mite pests, including adelgids, aphids, leafhoppers, mealybugs, psyllids, spider mites, spittlebugs and whiteflies.

Kontos is both xylem and phloem active, meaning that the systemic activity moves upward and downward in treated plants.

Kontos is a suspension concentrate formulation containing 2 pounds of the active ingredient spirotetramat per gallon.

Common Name: Spirotetramat

Class: Tetramic acid derivative (ketoenole)

GROUP	23	INSECTICIDE
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Packaging: **Kontos** is packaged in 250 mL (8.45 fl. oz.) containers, 6 per case.

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **24 hours for foliar application***

Signal Word = **CAUTION**

***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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- protective eyewear
- long-sleeved shirt and long pants
- chemical-resistant gloves
- shoes plus socks

ADVANTAGES OF KONTOS

- **Systemic activity via foliar or drench application**
- **Can be applied by ground equipment, air or through chemigation (e.g. ebb and flood)**
- **Effective against many important sucking pests**
- **Soft on many beneficial insects and mites**

MODE OF ACTION

Kontos is a lipid biosynthesis inhibitor, and is active primarily by ingestion. Most of the activity is against the immature stages of insects and mites. Reproduction of adult insects and mites may also be reduced.

There is no known cross resistance of **Kontos** with other pesticide mode of action groups, making it an excellent part of a resistance management program.

USE SITES

Kontos may be used on ornamental plants in greenhouses and nurseries, including non-bearing fruit and nut trees (i.e., trees that will not bear fruit or nuts for one year after application) and vegetable transplants, using soil drench, micro-irrigation, drip irrigation, overhead irrigation, ebb and flood irrigation, or hand-held motorized irrigation equipment.

PESTS CONTROLLED

Adelgids	Psyllids
Aphids	Spider mites
Leafhoppers	Spittlebugs
Mealybugs	Whiteflies

APPLICATION RATES

Foliar application: 1.7 to 3.4 fluid ounces (50 to 100 mL)/100 gallons, or 5 to 8 fluid ounces (150 to 240 mL) /acre. A spray adjuvant with spreading/penetrating characteristics may improve leaf uptake and systemic activity of the active ingredient.

Aerial application: 5 to 8 fluid ounces (150 to 240 mL) per acre in a minimum of 5 gallons of spray solution.

Drench application: The 1.7 fluid ounce (50 mL) rate

will treat a variable number of containers, depending on container size. Consult the product label for specific rate information.

See Restrictions for further application information.

TANK MIXING

Kontos is physically and biologically compatible with many registered pesticides and fertilizers or micronutrients. When considering mixing **Kontos** with other pesticides, or other additives, first contact your supplier for advice. For further information, contact your local OHP representative. If your supplier and OHP representative have no experience with the combination you are considering, conduct a test to determine physical compatibility. See the product label for instructions on how to conduct this test.

Tank mix combinations must also be tested for plant safety. **Kontos** and the numerous possible tank mix combinations, including spray adjuvants, have not been tested on all plant species and cultivars. Therefore, any tank mix combination must be evaluated in a small scale trial to determine plant safety before wide scale use.

RESISTANCE MANAGEMENT

Kontos contains an active ingredient with a mode of action classified as a Group 23 insecticide – lipid biosynthesis inhibitor (LBI). Studies to determine cross-resistance with **Kontos** with other commercial insecticides have demonstrated no cross-resistance. However, repeated use of any crop protection product may increase the development of resistant strains of pests, including insects and mites. Regular rotation to another product with a different mode of action is recommended.

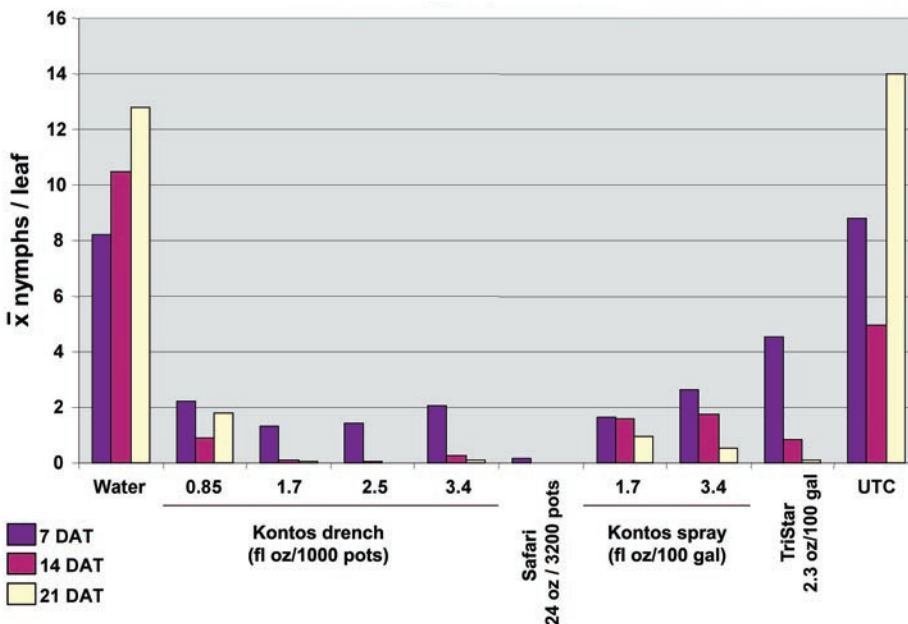
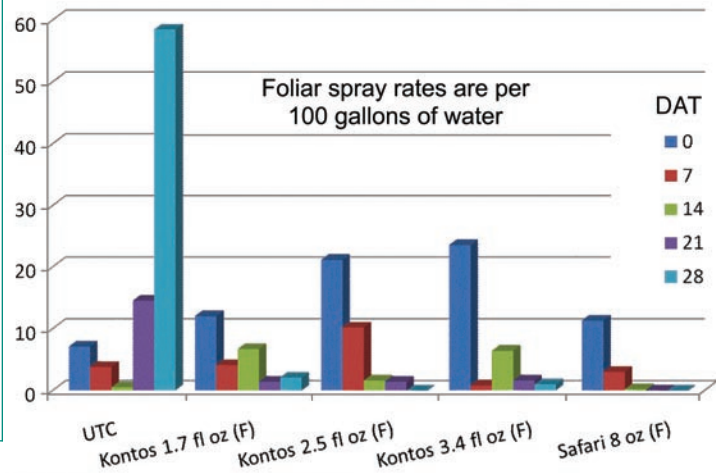
Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional resistance management or IPM recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org>.

RESTRICTIONS

- Do not apply more than 25 fluid ounces (750 ml) per acre of nursery per season; Do not apply more than 5 fluid ounces (150 ml) per acre per season to vegetable transplants.
- To reduce runoff potential, avoid outdoor applications when rainfall is expected within 48 hours.
- Do not use on: geraniums, orchids, hoyo, *Dracena*, *Cordyline*, *Schefflera*, neanthebella palm and ferns. See the product label for additional crop tolerance information.

Mean number of *Phenacoccus madeirensis* mealybugs per 5 coleus leaves

Scott Ludwig, Texas, A&M 2008



Kontos vs. *Bemisia tabaci* Whitefly on Poinsettia

Carlos Bogran, Texas A&M, 2008



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