

# KOPA™ INSECTICIDAL SOAP



## Insecticide/Miticide/Fungicide

FOR CONTROL OF INSECT AND MITE PESTS ON VEGETABLES, FRUITS, ORNAMENTAL PLANTS GROWN IN GREENHOUSES OR OTHER COVER AND OUTDOORS.

Product Information Bulletin

495

### GENERAL INFORMATION

**KOPA™ Insecticidal Soap** is a potassium salt of fatty acid soap that controls insects, mites, and powdery mildew.

**KOPA Insecticidal Soap** contains 4.07 lbs. active ingredient per gallon.

**Common Name:** potassium salts of fatty acids

**Class:** Biopesticide - Soaps

GROUP	M	INSECTICIDE
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**Packaging:** 2.5 gallon container, 2 per case

### RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours**

Signal Word = **Warning**

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicator and other handlers must wear:

- Protective eyewear
- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant footwear and socks
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and viton
- Chemical-resistant head gear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing or loading

### ADVANTAGES OF KOPA

- Broad-spectrum activity on insect and mite pests
- Labeled for use on herbs and vegetables
- 0 Day preharvest interval (PHI)
- 12-hour REI
- Controls powdery mildew
- No residual effects on beneficials
- Excellent fit with IPM programs



CAN BE USED FOR ORGANIC PRODUCTION

### PRODUCT APPLICATION TIPS

- Use with care on open blooms. Determine sensitivity before spraying.
- Apply before high populations of insects occur.
- Insects must be present and in contact with the **KOPA** spray solution.
- Spray with enough volume to penetrate foliage for good coverage.
- Spray early in the morning or evening or when it is overcast.

### MODE OF ACTION

**KOPA** kills by suffocation, disruption of cellular membranes, and removing protective waxes covering the insect which results in dehydration.

### USE SITES

Greenhouse and outdoor field production

### KOPA MAY BE USED ON THE FOLLOWING CROPS

- Bedding plants, flowering plants and foliage
- Woody ornamentals
- Trees and shrubs
- Citrus, pome and stone fruits
- Cucurbit vegetables
- Nuts
- Bulb, cole and leafy vegetables
- Legumes and fruiting vegetables
- Root and tuber vegetables
- Small fruits and vegetables
- Herbs and spices

## INSECTS CONTROLLED

### Foliar Application

Aphids	Earwigs	Whiteflies
Psyllids	Tent caterpillars	Spider mites
Plant Bugs	Mealybugs	Sawfly larvae
Leafhoppers	Thrips	

See label for complete list of insects controlled.

## APPLICATION RATES

**Foliar:** Spray **KOPA** on a preventative 7 to 14 day schedule or at the first sign of insect presence. Foliar spray rates range from 1% (1 gallon) to 2% (2 gallons) per 100 gallons of water, depending on target insect or crop.

## FOLIAR INSECT TREATMENT PROGRAM

For best results apply **KOPA** when insects first appear. Apply **KOPA** every 7 to 14 days as needed. Do not apply more than 3 consecutive treatments.

### Foliar feeding insects such as: aphids, whiteflies, scales, mealybugs and spider mites

Application	Product	Foliar Spray Rate per 100 gallons
Day 1	<b>Kopa™</b>	1 to 2% (1 to 2 gals.)
Day 7	<b>Kopa™</b>	1 to 2% (1 to 2 gals.)
Day 14	<b>Azatin® O + Triact® 70</b>	8 to 10 fl. oz. + 1/4% (32 fl. oz.)
Day 17	<b>Azatin® O + Triact® 70</b>	8 to 10 fl. oz. + 1/4% (32 fl. oz.)
Day 21	<b>Kopa™</b>	repeat apps as necessary

**KOPA** is effective at controlling spider mites either as a stand alone solution or mixed at 1% to aid other miticides.

Use of Kopa Insecticidal Soap according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of Kopa Insecticidal Soap. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read label directions and cautions before use.

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## DISEASES CONTROLLED

### Foliar Application

**Powdery Mildew: use 1 or 2 % (1 to 2 gallons) rate**

## TANK MIXING

**KOPA** user should adhere to any applicable restrictions on the tank mix product. If the compatibility of tank mix partners is unknown, mixing a small amount of the products in a clear jar is advised prior to mixing a large tank. Do not mix with Manzate or dithane products. Do not mix with sulfur or apply within 3 days of a sulfur application.

**Do not allow **KOPA** tank mix to remain longer than 24 hours.**

## USE RESTRICTIONS

- Do not spray when plants are under stress.
- Do not make more than 3 applications in a row.
- Do not use on sweet peas, nasturtiums, delicate ferns, Calmeria and Italia varieties of grapes.
- Poinsettias may be sensitive. Do not apply after coloring or bracts have begun.

## CHEMIGATION

**KOPA** may not be applied through drip (trickle), sprinkler, flood (basin), furrow, or border irrigation systems.



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