



OHP Biosolutions®



biosolutions

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Volume I

Greenhouse and
Nursery Production

ohp.com

Technical Service
800-356-4647



OHP Product	TYPE	OMRI Listed	Vegetable Transplants	Herbs	Vegetables	Tomatoes	Fruits and Nuts
Ancora™	Microbial Insecticide		✓	✓	✓	✓	✓
Azatin® O	Insecticide	✓	✓	✓	✓	✓	✓
Kopa™ Insecticidal Soap	Insecticide/ Miticide/ Fungicide		✓	✓	✓	✓	✓
Thuricide® N/G	Insecticide		✓	✓	✓	✓	✓
SoilGard®	Fungicide	✓	✓	✓	✓	✓	✓
Triact® 70	Fungicide/ Insecticide/ Miticide	✓	✓	✓	✓	✓	✓
Triathlon® BA	Algaecide/ Fungicide/ Bactericide	✓	✓	✓	✓	✓	✓

More information on the products listed above may be found on the OHP website at ohp.com, or from your OHP regional sales manager.

Ancora™

Ancora Microbial Insecticide is a naturally occurring fungus that infects both foliage and soil dwelling insects.
Labeled for use on: Vegetables, fruits, ornamental plants grown in greenhouses or other covered structures or in nurseries.

Insects Controlled: Aphids, thrips including pupae, spider mites, whiteflies, mealybugs, leafminers, psyllids, lepidopteran caterpillars, coleoptera grubs

Packaging: 1 pound bag, 10 per case

Storage Notes: Store **Ancora** in its original unopened package. **Ancora** is very stable in the unopened package for one year at 40° to 50° F.

With an opened package, squeeze out the excess air and keep refrigerated (40° to 50° F). Use any remaining product within 30 days of opening.

Optimal Environmental Conditions: Apply in the evening or early morning when the relative humidity is high (> 75%) and temperatures are moderate (65° to 85° F).

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-19-59807	4 hour	Microbial Insecticide	M	<i>Isaria fumosorosea</i> Apopka Strain 97	14 to 28 ounces	4.0 to 8.0 grams	Foliar and Drench

Azatin® O

Azatin O is a newly-formulated biological insect growth regulator (IGR) used to control the larval stage of a broad-spectrum of greenhouse and nursery pests. **Azatin O** is OMRI listed (Organic Materials Review Institute), soft on beneficials, and carries a 4-hour REI. **Azatin O** contains 175 grams of the active ingredient azadirachtin per gallon.

Azatin O may be used for insect control on all crops such as ornamentals, vegetables, herbs, and berries, grown in the greenhouse, nursery, interiorscape, and in hydroponic growing situations. **Azatin O** may be used for control of insects on turfgrass. Insects do not survive the molting process to become reproductive adults. Death results in 3-10 days after application but insects will stop feeding long before they die.

Labeled for use on: Ornamentals, vegetables, herbs, and berries grown in the greenhouse, nursery, and interiorscape.

Insects Controlled: Aphids, thrips, whiteflies, scale, chafers, leafhoppers, psyllids, grubs, borers, stink bugs, grasshoppers, and many Lepidoptera species (see label for complete list of insects controlled).

Packaging: 1 quart container, 6 per case

Notes: For best results thorough spray coverage and a final spray solution of 3.0 to 7.0 pH is recommended.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-9-59807	4 hours	Biological Insecticide	UN	Azadirachtin	4 to 16 fluid ounces	¼ tsp to 1 tsp (1.2 mL to 4.8 mL)	Drench or spray

Kopa™ Insecticidal Soap

Kopa Insecticidal Soap is a potassium salt of fatty acid soap that controls insects, mites and powdery mildew. **Kopa** can be used for organic production.

Labeled for use on: Ornamental and shade trees including flower and foliage plants in greenhouse and outdoors. Pome, stone fruits, small fruits and vegetables both in field and outdoor production, herbs and spices, hops, coffee and others. See full label for specific directions.

Pests controlled: Aphids, spider mites, mealybugs, scale insects, whiteflies, leafhoppers, tent caterpillars, plant bugs, earwigs, powdery mildew

Packaging: 2.5 gallon container, 2 per case

Notes: Approved for organic production.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per gallon	Application
67702-11-59807	12 hours	Biopesticide - Soaps	M	Potassium salts of fatty acids	1 to 2 gallons	1.28 to 2.56 fl. oz. 39 mL to 75 mL	Foliar spray

Thuricide® N/G

Thuricide N/G is a naturally occurring bacteria that infects lepidopteran larvae and other insect larvae. **Thuricide N/G** contains Crytoxins that target the gut of insect larvae. Once eaten the insect dies in several days but usually stops feeding in a few hours.

Labeled for use on: Ornamentals and food crops.

Insects Controlled: Cabbage loopers, gypsy moths, fall webworms, leaf rollers, tent caterpillars, tomato hornworms

Packaging: 0.5 pound bag, 20 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-53-59807	4 hours	Microbial insecticide-Exempt	UN	<i>Bacillus thuringiensis</i> subspecies kurstaki strain SA-12	0.25, 0.5, 1.0 pound	1.14, 2.27, 4.54 grams	Foliar spray

SoilGard®

G. virens, the active ingredient in **SoilGard** is a naturally occurring soil fungus, which is antagonistic to plant pathogenic fungi such as Pythium and Rhizoctonia, thereby aiding in control of these damping off and root rot pathogens. **SoilGard** acts as a preventative and will protect non-infected plants. It is not curative on already infected plants. Where possible allow the treated soil or media to incubate for 1 day prior to planting to achieve the best results. Do not use other soil fungicides at the time of incorporation. Later addition of fungicides is acceptable but usually unnecessary.

Labeled for use on: Ornamentals and food crop plants grown indoors and outdoors, in greenhouses, nurseries, and interiorscapes.

Diseases Controlled: Pythium and Rhizoctonia (Damping off and Root Rot)

Packaging: 5 lbs. bags, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-3	4 hours	Microbial (preventive)	NC	<i>Gliocladium virens</i> strain GL-21	.5 lbs. to 2 lbs.	½ tsp to 2 tsp (2.5 g to 10 g)	Drench or Soil Incorporation

Triact® 70

Triact 70 (clarified hydrophobic extract of Neem oil) is a broad-spectrum fungicide, miticide and insecticide. **Triact 70** is OMRI listed and approved for organic production. This highly effective and economical botanical oil may be used indoors as well as outdoors on ornamental flowering plants, trees, shrubs and foliage grown in greenhouses, interiorscapes and commercial landscapes. As a fungicide, **Triact 70** is a preventative as well as a curative. It coats fungal spores and then dehydrates them to stop the disease cycle. Use **Triact 70** when conditions favor disease development but before major symptoms occur. As a miticide and an insecticide, **Triact 70** acts as a suffocant. To ensure maximum control thorough coverage of **Triact 70** is key. Use **Triact 70** at rates of 0.5 to 2 percent at spray intervals of 7 to 10 days. **Triact 70** makes an excellent tool for all well developed IPM programs.

Labeled for use on: For indoor/outdoor use on ornamental flowering plants, trees, shrubs, foliage, herbs and vegetable plants grown in nurseries, greenhouses and commercial landscapes.

Insects, Mites, and Diseases Controlled: A broad spectrum insecticide, miticide and fungicide. See label for more information.

Packaging: 2.5 gallon container, 2 per case

Notes: Water temperature should be above 45° F. **Triact 70** is compatible with most commonly used fungicides, insecticides, and fertilizers. Avoid tank mixes of oxythioquinox, captan, sulfur, chlorothalonil or other chemically similar products. Refer to the label or Product Information Bulletin for crop sensitivities.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-2-59807	4 hours	Oils	NC	Clarified hydrophobic extract of neem oil	½ gallon , 1 gallon to 2 gallons	3¾ tsp to 7½ tsp to 15 tsp (5 TBS) (19 mL to 38 mL to 76 mL)	Spray

Triathlon® BA

Triathlon BA is a broad-spectrum preventative biofungicide for control of a wide variety of fungal and bacterial diseases on ornamentals, fruits, vegetables, herbs and spices grown in greenhouses, nurseries, and shadehouses. **Triathlon BA** is OMRI listed and approved for organic production.

Labeled for use on: Ornamentals, vegetables (fruiting and leafy), legumes, cucurbits, corms, fruits, tree nuts, and herbs and spices.

Diseases Controlled: botrytis, powdery mildew, downy mildew, rusts, leaf spots, scab, alternaria, pythium, phytophthora, rhizoctonia, fusarium, and bacterial spot.

Packaging: 1 gallon containers, 4 to a case

Notes: **Triathlon BA** contains a minimum of 1×10^{10} colony-forming units (cfu) of active ingredient per milliliter.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
70051-107-59807	4 hours	Biologicals	44	<i>Bacillus amyloliquefaciens</i>	foliar: .5 to 6 quarts; drench: .5 to 4.5 pints	1 tsp to 7 ¾ tsp to 11 ½ tsp (4.8 mL to 38 mL to 57 mL)	Spray or drench

OHP biosolutions Solutions®

PROBLEM	CROP	OHP SOLUTIONS

Key pest problems

Key Pests	OHP Solutions	Rate per 100 gallons	Rate per 1 gallon	Spray Interval
Aphids	Ancora™	14 to 28 oz.	4.0 to 8.0 grams	3 to 5 days
	Azatin® O	10 to 12 fl. oz.	¾ tsp to ¼ tsp 3 mL to 3.6 mL	7 days
	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 75 mL	7 to 14 days
	Triact® 70	½ to 1 gallon	3¾ tsp to 7½ tsp 19 mL to 38 mL	3 to 5 days
Caterpillars, Foliar feeders	Thuricide® N/G	0.25 to 1.0 pounds	1.14 to 4.54 grams	3 to 5 days
Fungus Gnats	Azatin® O	8 to 16 fl. oz.	½ tsp to 1 tsp 2.5 mL to 5 mL	3 to 5 days
Spider mites	Ancora™	14 to 28 oz.	4.0 to 8.0 grams	3 to 5 days
	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 75 mL	7 to 14 days
	Triact® 70	½ to 1 gallon	3¾ tsp to 7½ tsp 19 mL to 38 mL	3 to 5 days
Whiteflies	Ancora®	14 to 28 oz.	4.0 to 8.0 grams	3 to 5 days
	Azatin® O	10 to 12 fl. oz.	¾ tsp to ¼ tsp 3 mL to 3.6 mL	7 days
	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 75 mL	7 to 14 days
	Triact® 70	½ to 1 gallon	3¾ tsp to 7½ tsp 19 mL to 38 mL	3 to 5 days
Botrytis	Triathlon® BA	0.5, 4 to 6 qts	1 tsp, 7¾ tsp, 11½ tsp 4.8 mL, 38 mL, 57 mL	3 to 5 days
Downy Mildew	Triathlon® BA	0.5, 4 to 6 qts	1 tsp, 7¾ tsp, 11½ tsp 4.8 mL, 38 mL, 57 mL	3 to 5 days
Powdery Mildew	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 75 mL	7 to 14 days
	Triact® 70	½ to 1 gallon	3¾ tsp to 7½ tsp 19 mL to 38 mL	3 to 5 days
	Triathlon® BA	0.5, 4 to 6 qts	1 tsp, 7¾ tsp, 11½ tsp 4.8 mL, 38 mL, 57 mL	3 to 10 days

OHP Product Rate Guide

Fungicides			
Products	Rate per 100 gallons	Rate per 1 gallon	Pre Harvest Interval
Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fluid ounces (39 mL to 75 mL)	0 days
SoilGard®	0.5 to 2 pounds	½ tsp to 2 tsp (2.3 g to 9.1 g)	0 days
Triact® 70	½ gallon, 1 gallon, 2 gallons	3¾ tsp, 7½ tsp, 15 tsp (5 TBS) (19 mL, 38 mL, 76 mL)	0 days
Triathlon® BA	0.5 quart, 4 quarts, 6 quarts	1 tsp, 7⅔ tsp, 11½ tsp (4.8 mL, 38 mL, 57 mL)	0 days

Insecticides / IGRs/ Miticides			
Products	Rate per 100 gallons	Rate per 1 gallon	Pre Harvest Interval
Ancora™	14 to 28 ounces	4.0 to 8.0 grams	0 days
Azatin® O	4 to 16 fluid ounces	¼ tsp to 1 tsp (1.2 mL to 4.8 mL)	0 days
Kopa® Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fluid ounces (39 mL to 75 mL)	0 days
Thuricide® N/G	0.25 to 1.0 pound	1.14 to 4.54 grams	0 days
Triact® 70	½ gallon, 1 gallon, 2 gallons	3¾ tsp, 7½ tsp, 15 tsp (5 TBS) (19 mL, 38 mL, 76 mL)	0 days

Users should read the entire label for full information and application instructions.

TBS = tablespoon tsp = teaspoon mL = milliliter g = grams 1 fl oz = 29.6 mL 1 tsp = 5 mL 1 TBS = 15 mL

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