OHP BIOSOLUTIONS®





GREENHOUSE & NURSERY PRODUCTION

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ohp Partners with solutions OHP Biosolutions Solutions

OHP Product	ТҮРЕ	OMRI Listed	Herbs	Vegetable Transplants	Vegetables	Tomatoes	Fruits and Nuts
Ancora®	Microbial Insecticide	✓	√	√	V	√	√
Azatin [®] O	Insecticide	√	√	√	V	✓	✓
Kopa [™] Insecticidal Soap	Insecticide/ Miticide/ Fungicide	√	√	√	√	✓	√
Pycana [®]	Insecticide/ Miticide	√	√	√	√	✓	√
Grotto [®]	Fungicide/ Bactericide	√	√	√	√	√	√
Kalmor [®]	Fungicide/ Bactericide	√	√	√	√	√	√
Triact [®] 70	Fungicide/ Insecticide/ Miticide	√	√	√	√	✓	√
Triathlon [®] BA	Fungicide/ Bactericide	√	√	√	/	✓	√
FireWorxx [™]	Herbicide	✓					

More information on the products listed above may be found on the OHP website at ohp.com, or from your OHP technical 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. **Ancora** is OMRI listed and approved for organic production

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	М	Isaria fumosorosea	14 to 28 ounces	4.0 to 8.0 grams	Foliar and
				Apopka Strain 97			Drench

Azatin® O

Azatin O is a 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, 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, fungus gnats, scales, chafers, leafhoppers, psyllids, grubs, borers, stink bugs, grasshoppers, Japanese beetles, 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	Biopesticide	UN	Azadirachtin	4 to 16 fluid ounces	1/4 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** is OMRI listed and approved for organic production.

Labeled for use on: Ornamental and shade trees including flower and foliage plants in greenhouses and outdoors. Pome, stone fruits, small fruits and vegetables, both in field and outdoor production, herbs and spices, hops, coffee and other crops. 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: Kopa may be tank mixed with appropriate partners for additional activity.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per gallon	Application
67702-11-59807	12 hours	Biopesticide - Soaps	UNM	Potassium salts of fatty acids	1 to 2 gallons	1.28 to 2.56 fl. oz. 39 mL to 76 mL	Foliar spray

Pycana[®]

Pycana Insecticide/Miticide is a combination of natural pyrethrins and canola oil that can be used in greenhouses, shadehouses, hoophouses, and container-grown nurseries. **Pycana** is OMRI listed and approved for organic production.

Labeled for use on: Bedding plants, flowering plants and foliage; bulbs; cole and leafy vegetables; citrus, pome and stone fruits; cucurbit vegetables; herbs and spices; legumes and fruiting vegetables; nuts; root and tuber vegetables; small fruits, vines and vegetables; trees and shrubs; woody ornamentals

Insects Controlled: Aphids, thrips, leafhoppers, earwigs, tent caterpillars, psyllids, plant bugs, mealybugs, spider mites, sawfly larvae, whiteflies

Packaging: 1 gallon container, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
67702-53-59807	12 hours	Insecticide/Miticide	3+UNE	Pyrethrins + Oil	1 to 2 gallons (1% to 2%)	1.28 to 2.56 fl. oz. 39 mL to 76 mL	Foliar spray

Grotto®

Grotto fungicide/bactericide is an effective broad-spectrum agent for prevention and control of diseases in a variety of plants and crops. **Grotto** is OMRI listed and approved for organic production.

Labeled for use on: Greenhouse and shadehouse vegetables and herbs, ornamentals, and turf.

Diseases Controlled: Anthracnose, bacterial blights (pseudomonas, erwinia), botrytis, cercospora leaf spot, downy mildew, powdery mildew, phomopsis, volutella leaf blight and more.

Packaging: 1 gallon container, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
67702-2-59807	4 hours	Inorganic	M 01	Copper octanoate	0.5 to 2 gallons	3 ³ / ₄ tsp to 15 tsp	Foliar spray

Kalmor®

Kalmor fungicide/bactericide is an effective broad spectrum agent for prevention and control of diseases in a variety of plants and crops. **Kalmor** is OMRI listed and approved for organic production.

Labeled for use on: Ornamentals and greenhouse vegetables.

Diseases Controlled: Anthracnose, bacterial blights (pseudomonas, erwinia), botrytis, cercospora leaf spot, downy mildew, powdery mildew, phomopsis, volutella leaf blight and more.

Packaging: 2.5 lbs, 4 per case

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per acre	Rate per 1,000 sq ft	Application
91411-11-59807	24 Greenhouse and 48 Nursery	Inorganic	M 01	Copper Hydroxide	0.5 to 2 lbs.	½ TBS to 1½ TBS	Foliar spray

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. **Triact 70** 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	0.5 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	Bacillus sp. and the fungicidal lipo- peptides produced	BM 02	Bacillus amyloliquefaciens	foliar: 0.5 to 6 quarts; drench: 0.5 to 4.5 pints	1 tsp to 7 1/3 tsp to 11 1/5 tsp (4.8 mL to 38 mL to 57 mL)	Spray or drench

FireWorxx™

FireWorxx is a post emergent herbicide for control of weeds in greenhouse, nursery and landscape ornamentals, grounds maintenance, and non-cropland areas. **FireWorxx** is a fast-acting, non-selective broadleaf weed, grass, algae and moss killer. **FireWorxx** is not translocated. It will burn only those plant parts that are coated with spray solution. **FireWorxx** can be used any time during the year and works best during sunny, warm and dry conditions. Application during cold weather may delay appearance of plant damage. If rain falls within 3 hours of treatment, an additional spray may be required. **FireWorxx** controls many common annual weeds and suppresses the growth of biennial and perennial weeds. It can be used in cultivated areas prior to planting crops. Treated areas can be re-planted as soon as desirable level of weed control is obtained.

Labeled for use on: Greenhouse, nursery and landscape ornamentals, grounds maintenance, and non-cropland areas.

Weeds Controlled: FireWorxx is a post emergent, burn-down herbicide. Any contact of **FireWorxx** to desirable plants or plant parts will risk significant plant injury. Do not overspray **FireWorxx** onto desirable plants.

Packaging: 1 gallon container, 4 per case

Notes: FireWorxx is a Caution labeled, OMRI-listed, USDA Organic herbicide that makes an excellent replacement for applicators concerned with glyphosate-based herbicides. **FireWorxx** is fast acting and does not have residual activity. It can be used around edible crops, herbs, ornamentals, landscapes and non-crop areas.

EPA Reg. No.	REI	Chemical Family	MOA	Active Ingredient	Rate per 100 gallons	Rate per 1 gallon	Application
67702-54-59807	24 hours	Soaps	М	Caprylic Acid + Capric Acid	3 to 9 gallons	3.8 to 11.5 fl. oz.	Contact foliar sprays



ohp Partners with solutions OHP Key Pest Problems

Key Pests	OHP Solutions	Recommended Rate per 100 gallons	Recommended Rate per 1 gallon	Spray Interval
	Ancora®	16 oz.	5 grams	3 to 5 days
Amhida	Azatin® O	12 fl. oz.	4/s tsp or 3.6 mL	3 to 5 days
Aphids Thrips	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. or 39 mL to 76 mL	7 to 14 days
Whiteflies	Pycana®	2 gallons	2.6 fl. oz. or 75 mL	7 days
	Triact® 70	1 gallon	7½ tsp or 38 mL	3 to 5 days
Caterpillars	Azatin® O	8 to 16 fl. oz.	½ tsp to 1 tsp 2.5 mL to 5 mL	7 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
	Ancora®	14 to 28 oz.	4 to 8 grams	3 to 5 days
Cui dan mita a	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 76 mL	7 to 14 days
Spider mites	Pycana [®]	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 76 mL	7 days
	Triact® 70	0.5 to 1 gallon	3¾ tsp to 7½ tsp 19 mL to 38 mL	3 to 5 days
Botrytis	Triathlon® BA	4 quarts	7 ² / ₃ tsp or 38 mL	3 to 5 days
Downy Mildew	Triathlon® BA	0.5, 4 to 6 quarts	1 tsp, 7²/₃ tsp, 4.8 mL, 38 mL, 11¹/₅ tsp 57 mL	3 to 5 days
	Grotto®	0.5 to 2 gallons	3¾ tsp to 15 tsp or 19 mL to 76 mL	7 to 10 days
	Kalmor®	0.5 to 2 lbs. per acre	½ TBS to 1½ TBS per 1,000 sq. ft.	7 days
Powdery Mildew	Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fl. oz. 39 mL to 76 mL	7 to 14 days
	Triact® 70	0.5 to 1 gallon	3¾ tsp to 7½ tsp	3 to 5 days
	Triathlon® BA	0.5, 4 to 6 quarts	1 tsp, 7 ² / ₃ tsp, 4.8 mL, 38 mL, 11 ¹ / ₅ tsp 57 mL	3 to 5 days
Weeds, Algae or other undesired plants	FireWorxx™	3, 6, 9 gallons	3.8 to 11.5 fl. oz.	as needed

OHP Product Rate Guide

Fungicides			
Products	Rate per 100 gallons	Rate per 1 gallon	Pre Harvest Interval
Grotto®	0.5 to 2 gallons	3¾ tsp to 15 tsp (5 TBS) (19 mL to 76 mL)	0 days
Kalmor [®]	0.5 to 2 lbs. per acre	½ TBS to 1½ TBS per 1,000 sq. ft.	0 days
Kopa™ Insecticidal Soap	1 to 2 gallons	1.3 to 2.6 fluid ounces (39 mL to 76 mL)	0 days
Triact® 70	0.5 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, 7²/₃ 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 to 8 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 76 mL)	0 days	
Pycana [®]	1 to 2 gallons	1.3 to 2.6 fluid ounces (39 mL to 76 mL)	0 days	
Triact® 70	0.5 gallon, 1 gallon, 2 gallons	3 % tsp, 7 ½ tsp, 15 tsp (5 TBS) (19 mL, 38 mL, 76 mL)	0 days	

Herbicides			
Products	Rate per 100 gallons	Rate per 1 gallon	Pre Harvest Interval
FireWorxx™	3, 6, 9 gallons	3.8 to 11.5 fluid ounces	NA

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

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

OHP Biosolutions Solutions®

PROBLEM	CROP	OHP SOLUTIONS

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