

Product Guide

Bringing out the best in pest management for

GREENHOUSE PRODUCE



Akari® Miticide/Insecticide

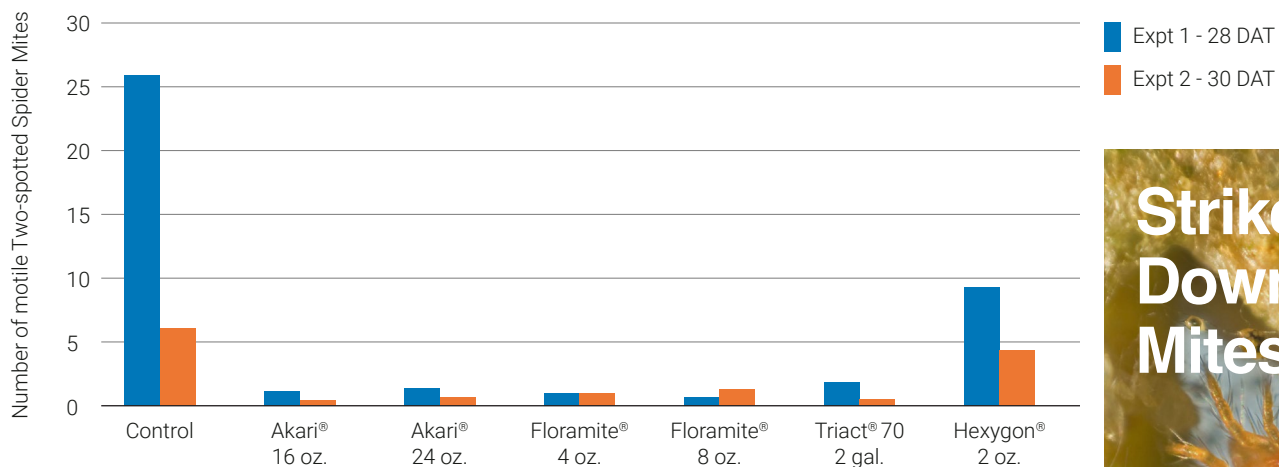
Stop the Damage Immediately

Akari's unique, immediate "stop-feeding action" not only stops further crop damage, but also inhibits oviposition. The immediate stop-feed prevents mites and insects from further eating away at your profits before they die out completely 4 - 7 days later. While Akari is active on all life stages, it is especially effective on the plant damaging larvae, nymph and adult stages. Akari provides long residual action of 21 - 28 days, making it a powerful and convenient addition to your IPM program. As a contact solution, thorough spray coverage is essential to obtain desirable control.

Akari Quick Facts

Labeled Food Crops	Greenhouse Tomatoes, Cucumbers, Peppers
Pests Controlled	Mites (Spider Mites, Tarsonemid Mites, Eriophyid Mites) Mealybugs, Whiteflies, Psyllid
Life Stages Controlled	Eggs, Immatures and Adults
Recommended Rate	16 - 32 fl oz. per 100 gallons
Application	Spray
Pre-Harvest Interval (PHI)	Tomatoes and Peppers: • 1 day Cucumbers: • 7 days
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Fenpyroximate
Mode of Action (Chemical Group)	METI Acaricide (21A)

Control of Spider Mites on Chrysanthemums



Number of motile two-spotted spider mites per 4 chrysanthemum leaves following miticide applications 28 days (Expt. 1) and 30 days (Expt. 2) after treatment J.F. Price, Gulf Coast Research & Education Center, University of Florida, Bradenton, Summer 2000.



Ornazin® Botanical Insecticide

The Natural Choice

The active ingredient in Ornazin Botanical Insecticide—azadirachtin—is a natural limonoid extracted from the seeds of the tropical Neem tree. This natural compound acts as a powerful insect growth regulator, antifeedant and repellent. Ornazin inhibits the production of the key molting hormone, ecdysone. Without ecdysone insects will be unable to properly molt/pupate, leading to death. Combine Ornazin's broad-spectrum activity on immatures, with little affect to adults, and it becomes a perfect component of a produce IPM program, especially those featuring beneficials.

Ornazin Quick Facts

Labeled Food Crops	Greenhouse Fruits, Vegetables and Herbs
Pests Controlled	Aphids, Beetles, Caterpillars, Fungus Gnats, Leaf/Planthoppers Lepidopteran larvae, Mealybugs, Nematodes, Scales, Thrips, Whiteflies
Life Stages Controlled	Immatures, Adult repellent
Recommended Rate	Aphids, Caterpillars, Fungus Gnats, Mealybugs, Thrips & Weevils: • 8 fl. oz. per 100 gallons Cucumbers: • 10 fl. oz. per 100 gallons
Application	Spray
Pre-Harvest Interval (PHI)	1 day
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Azadirachtin
Mode of Action (Chemical Group)	Ecdysone inhibitor (18B)

Talus® Insect Growth Regulator

Break the Life Cycle

In addition to its phenomenal activity against nuisance insects, some of the best features of Talus Insect Growth Regulator (IGR) include its tenderness to tomatoes and beneficial insects. Talus is effective via contact, ingestion and vapor activity. Talus is also faster acting and has a larger window of application within the target pests' life cycle compared to other IGRs. In addition to its primary mode of action, Talus also suppresses egg-laying and causes egg sterilization in infected adults. Even though Talus is classified as an IGR, it works fast to eliminate insect pests and save your crops.

Talus Quick Facts

Labeled Food Crops	Greenhouse Tomatoes
Pests Controlled	Whiteflies, Mealybugs, Leaf/Planthoppers, Scales
Life Stages Controlled	Immatures
Recommended Rate	Whiteflies: • 6 - 9 oz. per 100 gallons Mealybugs, Leaf/Planthoppers and Scales: • 9 oz. per 100 gallons
Application	Spray
Pre-Harvest Interval (PHI)	1 day
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Buprofezin
Mode of Action (Chemical Group)	Chitin biosynthesis inhibitor (16)

Rycar[®] Insecticide

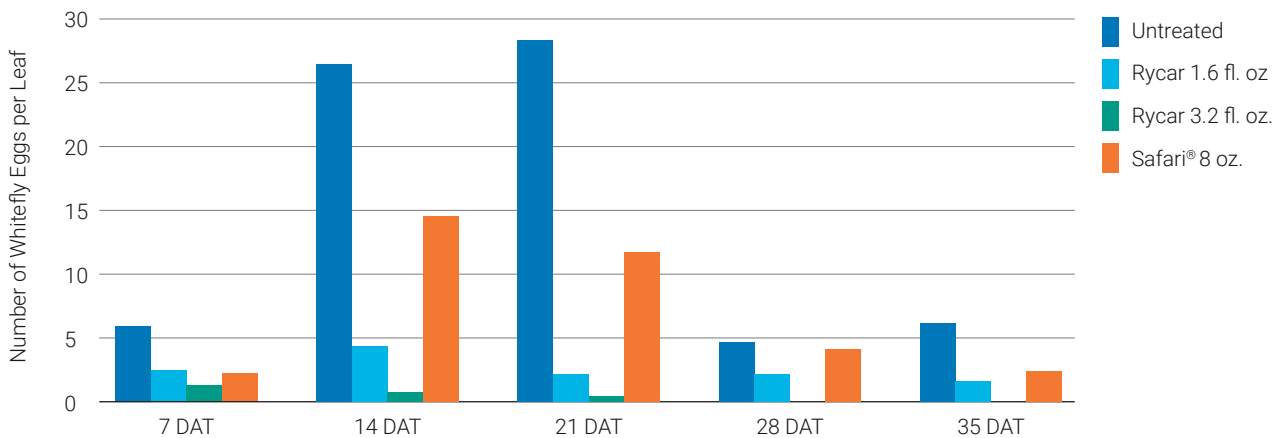
The Next Generation in Whitefly, Aphid & Mealybug Control

Rycar Insecticide brings a unique chemistry to a grower's toolbox. Rycar provides excellent control of whiteflies (all biotypes), aphids, mealybugs, chilli thrips and leafhoppers. Rycar acts via contact or ingestion to stop insects from feeding within 2 hours after application before starvation sets in during the next 48 hours. As versatile as Rycar is, it is also very gentle to both beneficial insects and pollinators. Rycar is the perfect alternative to neonicotinoid chemistries and is a great component of a comprehensive, economical IPM program.

Rycar Quick Facts

Use Sites	Greenhouse, Greenhouse Vegetables
Pests Controlled	Aphids, Chilli thrips, Leafhoppers, Mealybugs, Whiteflies (all biotypes)
Life Stages Controlled	Immatures and Adults
Recommended Rate	16 - 64fl oz. per 100 gallons
Application	Spray
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Pyrifluquinazon
Mode of Action (Chemical Group)	Behavior modifier (9B)

Rycar Controls All Whitefly Life Stages



Egg, immature, and adult whitefly counts were made and averaged every 7 days after initial treatment. Osborne, 2015



Hachi-Hachi® SC Insecticide

Changing the Game in Insect Management

The improved Hachi-Hachi SC Insecticide provides the same outstanding broad-spectrum control with exceptional crop safety. Hachi-Hachi SC is highly efficacious on thrips, aphids, leafhoppers, lepidopteran and coleopteran insects, scale, mealybugs and whiteflies. All life stages of target insects exposed to Hachi-Hachi SC via contact or ingestion are controlled. Additionally Hachi-Hachi SC demonstrates exceptional fungistatic activity against powdery and downey mildew.

Rycar Quick Facts

Use Sites	Greenhouses, Greenhouse cucumbers & tomatoes, Nurseries, Landscapes, Christmas Trees, Non-bearing Fruit & Nut Trees/Vines
Pests Controlled	Aphids, Coleoptera Leafhoppers, Lepidoptera, Mealybugs, Scale, Thrips (including Western Flower), Whiteflies, Powdery mildew, Downy mildew
Life Stages Controlled	Eggs, Immatures and Adults
Recommended Rate	Indoor: 14 - 32 fl. oz. per 100 gallons Outdoor: 14 - 27 fl. oz. per 100 gallons
Application	Spray
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Tolfenpyrad
Mode of Action (Chemical Group)	MET1 (21A) - IRAC Pyrazole - MET1 (39) - FRAC



Camelot® O Fungicide/Bactericide



The New Age of Copper Products for Greenhouse Produce

Camelot O Fungicide is your one-stop shop for foliar bacterial and fungal disease control. Camelot O is OMRI certified and approved for organic production of greenhouse vegetables and herbs by the National Organic Program (NOP). It's unique, patented copper soap formula allows for impeccable coverage and adherence with none of the globular residue seen in other copper-based products. The true soap formulation also requires minimal elemental copper for excellent disease control, further emphasizing Camelot O's immaculate plant safety.

Camelot O Quick Facts

Labeled Food Crops	Greenhouse Fruits, Vegetables & Herbs
Pests Controlled	Bacterial Pathogens: <i>Erwinia</i> spp., <i>Pseudomonas</i> spp., <i>Xanthomonas</i> spp., Bacterial Leaf Blight/Spot Fungal Pathogens: Anthracnose, Ascochyta Leaf Blight, Black Spot, Botrytis Blight, Cercospora Leaf Blight/Spot, Dollar Spot, Downy Mildew, Leaf Spots, Powdery Mildew, Rusts, White Mold
Recommended Rate	0.5 - 2 gal. per 100 gallons
Application	Spray
Pre-Harvest Interval (PHI)	1 day
Restricted-Entry Interval (REI)	4 hours
Active Ingredient	Copper Octanoate (Copper Soap)
Mode of Action (Chemical Group)	Copper, Complex (M1)

Decree® Fungicide



The Industry Standard for *Botrytis* Control

Over time, Decree Fungicide/Bactericide has become industry standard for preventative and curative control of *Botrytis* blight. Top to bottom, Decree is unsurpassed in preventing infection of *Botrytis* spores and at the same time inhibiting sporulation. The active ingredient, Fenhexamid, inhibits germ tube elongation, penetration peg formation, and the most sensitive life cycle stage, hyphal growth. Decree has phenomenal plant safety and low visible residue making it the ideal greenhouse vegetable fungicide. They don't call it, "The Industry Standard for *Botrytis* Control" for nothing!

Decree Quick Facts

Labeled Food Crops	Greenhouse Vegetables and Herbs
Pests Controlled	<i>Botrytis</i> Blight, Powdery Mildew (suppression)
Recommended Rate	0.75 - 1.5 lbs per 100 gallons
Application	Spray
Pre-Harvest Interval (PHI)	Leafy greens: • 3 days Greenhouse fruits and vegetables (tomatoes, peppers, cucumbers, etc.) • 0 days
Restricted-Entry Interval (REI)	12 hours
Active Ingredient	Fenhexamid
Mode of Action (Chemical Group)	Sterol biosynthesis in membranes (17)

Obtego® Fungicide and Plant Symbiont



Always Active. Never Lazy.

Obtego Fungicide and Plant Symbiont serves as a multi-functional tool for growers by protecting the plant from damaging soil-borne pathogens and enhancing root growth. Obtego contains two unique fungi-based active ingredients. The two species combine to form a powerful fungicide that is effective in a wide range of soil and environmental conditions. Obtego is highly effective against diseases such as Pythium spp., Phytophthora spp., Rhizoctonia spp. and more. Obtego and plant roots live in a mutually beneficial symbiosis. As Obtego colonizes the root system, the Obtego fungi promote competition and parasitism of plant damaging pathogens in the soil. In return, Obtego stimulates development of a robust root system. The end result is a healthy, high quality plant.

Obtego Quick Facts

Use Sites	Greenhouse/Shadehouses, Outdoor Nurseries, Greenhouse Vegetables, Fruits & Herbs, Landscape Plantings, Interiorscapes, Christmas Tree, Turf
Pests Controlled	Pythium spp., Phytophthora spp., Rhizoctonia solani, Sclerotinia spp., Fusarium spp., Sclerotium rolfsii., Verticillium dahlia, Armillaria mellea, Thielaviopsis basicola
Recommended Rate	Dip: 0.25 - 2 lbs./gal; Substrate mix: 0.5 - 1.5 lbs./cubic yard; Chemigation: 2.5 - 5 lbs/A; Drench: 2.5 - 7.5 oz./100gal.
Pre-Harvest Interval (PHI)	0
Restricted-Entry Interval (REI)	0/4
Active Ingredient	Trichoderma asperellum strain ICC 080; Trichoderma gamsii strain ICC 012
Mode of Action (Chemical Group)	BM02 - multi MoAs

Untreated



Treated



As you go the extra mile to protect your plants, SePRO is committed to providing high quality solutions for insect and disease control, as well as plant growth regulation to help you deliver extraordinary plants to your customers.



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To purchase or for more information, contact your
SePRO Technical Specialist at **1-800-419-7779**,
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