



Bringing out the best management solutions for

Poinsettia Season

Product Use Guide





SePRO Solutions

Proven efficacy and reliability make SePRO insecticides, fungicides, and plant growth regulators an integral part of your overall management program this poinsettia season. Bringing out the best, SePRO delivers the management solutions you need to create extraordinary plants.

Akari® 5SC Miticide/Insecticide

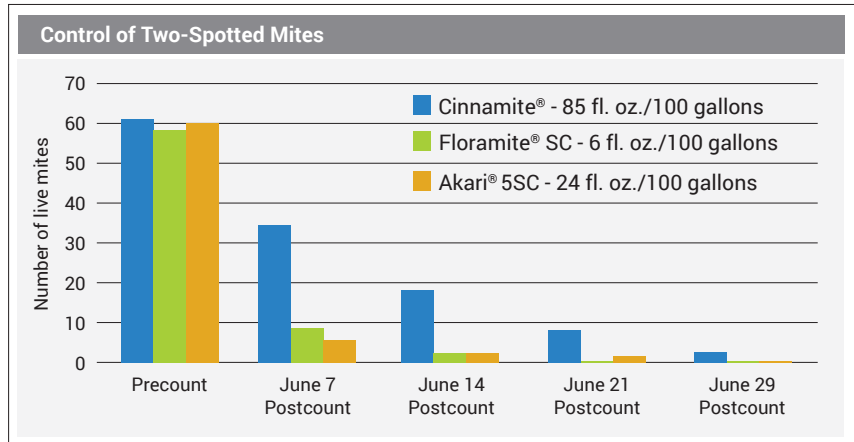
Lewis mites, Broad mites, and Two-spotted Spider mites can be devastating to a poinsettia crop. An excellent choice as a first application, Akari kills all mites at all life stages, stops feeding activity, and stops egg laying. Akari also aids in the suppression of whiteflies and mealybugs. Akari's reduced-risk classification, excellent plant safety, and compatibility with certain beneficial insects, make it a powerful addition to your IPM program.

Akari Features

- Immediate stop-feed, reducing viral transmission
- Broad-spectrum activity on multiple mite species
- Active on all life stages
- Excellent crop safety with no residue
- EPA Reduced Risk Certified



Mite damage on poinsettia



All treatments with Akari 5SC performed very well requiring only two treatment applications. (Source: SA Gill, R Resser, P Shrewsbury, University of Maryland).

A-Rest® Plant Growth Regulator

A-Rest is the tried and true PGR for controlling the height and improving the quality of poinsettias. A single drench application can be utilized to substitute for several applications of weaker PGR's. Drench applications of A-Rest after the start of short days have been shown to have very little affect on bract size or quality. Therefore, A-Rest may have application not only as a treatment to decrease application labor costs but also as a late emergency treatment.

A-Rest Features

- Perfect for an out-the-door application to hold plant size and shape
- Strengthens and tones plant, readying them for transplanting and shipping
- Prevents stretching in the greenhouse yet allows the poinsettias to flourish for the consumer
- No adverse affect to flowers, including no flower delay, no residue and no phytotoxicity
- EPA Reduced Risk Certified



Ornazin® 3% EC Botanical Insecticide

Ornazin is a proven standard as an insect growth regulator that controls insects at the larval, pupal, and nymphal stages. Effective on fungus gnats, shore flies, and crane flies as a drench and whiteflies, leafminers, aphids, and many other listed insects as a spray.



Ornazin Features

- Broad-spectrum activity on multiple insect pests in one spray
- Gentle on both beneficial insects, as well as pollinators
- Saves plants from damaging immature and adult stages
- Excellent formulation that's low odor, easy to handle, and compatible with other pesticides



Whiteflies feeding on poinsettia leaf
(Image courtesy of Dr. JC Chong).

Adult **Silverleaf Whiteflies** lay 200 or more eggs that hatch in a 4 - 5 day period. Immatures molt through four larval instars in 14 -18 days. The first stage is mobile, but the following three are not. The quiescent red-eyed pupal stage matures in approximately 6 days. The life cycle of the silverleaf whitefly is approximately 25 - 30 days, depending on greenhouse temperatures.

Fungus Gnats lay their eggs in growing media. After larvae hatch, they molt through four larval instars plus a pupal stage, for a 21 - 24 day life cycle. Damage results when larvae feed on growing root hairs, depriving plants of essential nutrients. Open wounds predispose the plant to attacks from fungal pathogens, such as *Verticillium*, *Rhizoctonia* and *Pythium*, that are often carried in the gut of the immature fungus gnats.



Fungus Gnat feeding damage



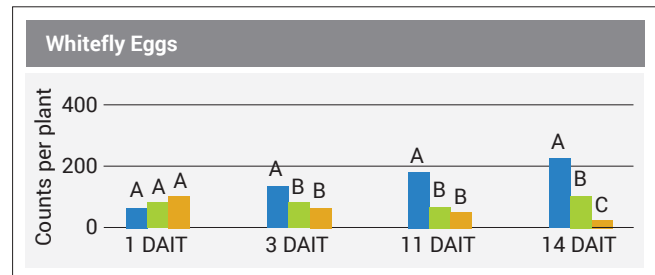
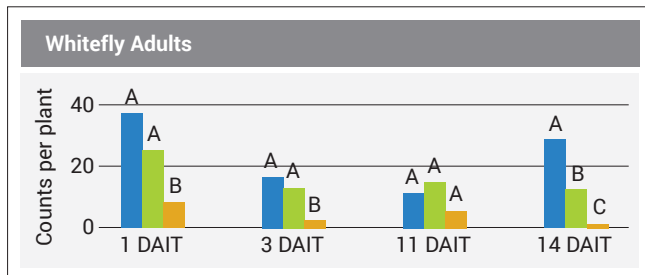
Fungus Gnat

Rycar® Insecticide

Rycar is a novel chemistry for quick, effective whitefly control during any stage of poinsettia production. With great efficacy against all life stages, Rycar is a great addition to your SePRO toolbox for growing a top-quality poinsettia crop. With a unique mode of action, Rycar will become an integral part of your resistance management and IPM program. Rycar Insecticide is a great alternative to neonicotinoid insecticides at an affordable price.

Rycar Features

- Superior whitefly, aphid, chilli thrips, mealybug, and leafhopper control
- Excellent efficacy on both B- and Q-biotypes
- Immediate stop-feed—significantly reduces viral transmission
- Translaminar activity
- Outstanding plant safety with no residue, even at high rates
- Gentle on both beneficial insects as well as pollinators
- Unique mode of action for resistance management



■ Control ■ Talstar® - 4.0 fl. oz./100 gallons ■ Rycar - 3.2 fl. oz./100 gallons

Effect of treatment on whitefly: Adult and egg stages counted at various times after treatment. Initial application was followed by a sequential application 10 days after initial treatment (DAIT). Letters within rating dates indicate significant difference at $p < 0.05$. *Center for Applied Hort Research, 2014*. Plant safety was evaluated on 100+ poinsettia varieties in color with no phytotoxicity or residue, even at high rates:



Premium Lipstick Pink - 4 weeks after treatment with 6.4 fl oz/100 gallons. *University of Florida, 2014*.



Prestige Early - 4 weeks after treatment with 6.4 fl oz/100 gallons. *University of Florida, 2014*.

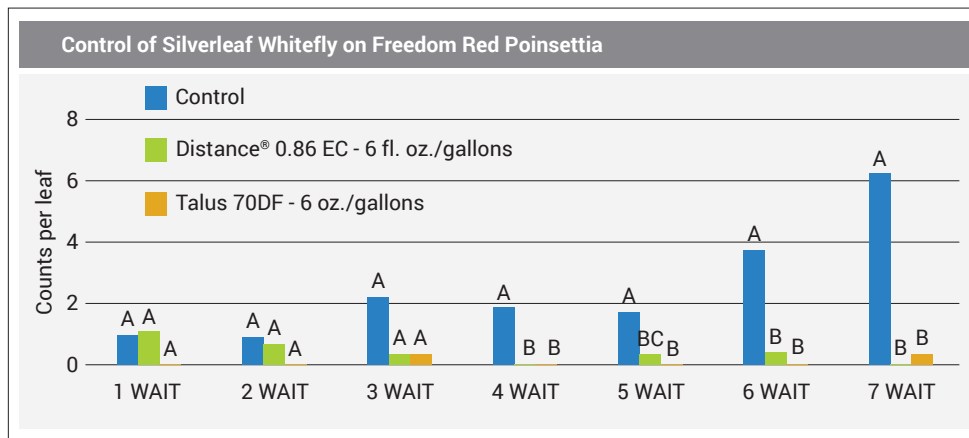
Talus® 70DF Insect Growth Regulator

Talus aggressively interrupts the lifecycle of target pests while providing excellent safety to crops and beneficial insects. Classified as a chitin synthesis inhibitor, Talus disrupts molting by blocking the formation of chitin, the building block of insect exoskeleton.



Talus Features

- Outstanding efficacy on whitefly, scale, and mealybug
- Toxicity to pests via contact and ingestion
- Excellent crop safety—even poinsettias in color!
- Safe to most beneficials
- Unique mode of action
- Highly compatible with IPM and resistance management programs
- Suppresses egg laying and causes egg sterilization in treated adults through secondary hormonal activity



Effect of Talus 70DF treatment on whitefly: Cast skins counted at various times after treatment. Initial application was followed by a sequential application 3 weeks after initial treatment (WAIT). Letters within rating dates indicate significant difference at $p < 0.05$. (Oetting, 2001).

Topflor® Plant Growth Regulator

Topflor is the clear choice for top quality poinsettias and one of the most versatile PGRs available. Height control of poinsettias can be challenging, even for the most experienced growers. As poinsettia genetics continue to evolve and change, so must growers in their approach to control height. Differences in cultivars, growing environments, and grower preferences can make selecting the best plant growth regulator difficult. Now, SePRO has helped to make that decision easier.



Topflor Features

- Excellent activity utilizing spray, drench and pre-plant soak applications
- Little-to-no flower delay
- More vibrant flower as well as darker green foliage
- Provides the perfect amount of growth regulation
- Better toned plants, increasing tolerance to pest, environmental and shipping stresses



Prestige Red at finish
0.1 ppm Topflor as needed



Control

Obtego® Fungicide and Plant Symbiont

An OMRI Listed, powerful biofungicide for direct-stick propagation and liners, Obtego contains naturally occurring antagonistic fungi which prevent attacks to the roots and collar region from *Fusarium*, *Pythium*, *Phytophthora*, *Rhizoctonia*, *Rosellinia*, *Sclerotinia*, *Sclerotium rolfsii*, *Thielaviopsis basicola*, and *Verticillium*.



Obtego Features

- Biofungicide with efficacy comparable to traditional chemistries
- Provides multiple modes of action to reduce risk of resistance
- 4-hr REI and 0-day PHI, minimizing interference with daily operations
- Compatible with most fungicides, providing a seamless integration into any IPM program
- Stimulates root enhancement to improve overall plant quality



8 DAIT - Treatments were drenched on the same day as cuttings were planted. 5 oz./100 gal Obtego (left) and 5.5 oz. RootShield® Plus (right).



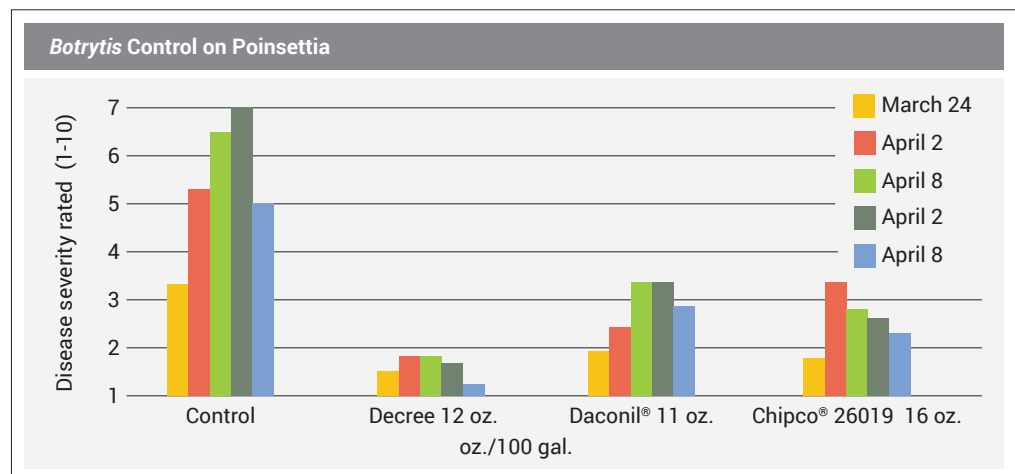
Decree® Fungicide

As an industry standard for *Botrytis* control, Decree is unsurpassed in preventing infection of *Botrytis* spores and at the same time inhibiting sporulation. Decree has phenomenal plant safety and low visible residue, making it the ideal fungicide to use on sensitive crops like poinsettias.



Decree Features

- Unsurpassed *Botrytis* control
- Protective and curative
- Excellent crop safety
- Very low residue
- Vegetable and herb label



North Carolina State University, D.M. Benson

SePRO Corporation

11550 North Meridian Street

Suite 600

Carmel, IN 46032

1-800-419-7779

sepro.com

To purchase or for more information, contact your
SePRO Technical Specialist at **1-800-419-7779**,
visit sepro.com/hort, or contact a SePRO Distributor Partner



Visit sepro.com/hort

Always read and follow label directions. A-Rest, Obtego, and Topflor are registered trademarks of SePRO Corporation. Akari, Rycar, and Talus are registered trademarks of Nichino America, Inc. Cinnamite is a trademark of Mycotech Corporation. Decree is a registered trademark of Arysta LifeScience Corporation. Distance is a registered trademark of Valent USA Corporation. Floramite is a registered trademark of Chemtura Corporation. Ornazin is a registered trademark of AMVAC Chemical Corporation. RootShield is a trademark of BioWorks, Inc. Talstar is a trademark of FMC Corporation. Daconil is a registered trademark of an Syngenta Group Company. Chipco is a registered trademark of the Bayer Group. ©Copyright 2022 SePRO Corporation. Printed in U.S.A. Revised 07/08/2022.