

INFOSHEET

CONSERVE® SC TURF AND ORNAMENTAL INSECT CONTROL



GOLF



LAWN



NURSERY



ORNAMENTAL

Dow AgroSciences

Conserve® SC

Turf and Ornamental
Insect Control

Whether you're a nursery, greenhouse or landscape manager seeking ways to stop tough-to-control spider mites and thrips, or a turf manager hunting for highly effective cutworm, armyworm and sod webworm control, look no further. You'll find the solutions you're searching for in Conserve® SC turf and ornamental insect control.

FACTS ABOUT CONSERVE SC

Spinosad, the active ingredient in Conserve SC, is derived from the fermentation of a naturally occurring organism and is highly active at very low use rates on leafminers, thrips, Eastern tent caterpillars, bagworms, fall webworms and other lepidopterous insect pests.

Conserve SC uniquely combines the efficacy of synthetic insecticides with the benefits of biological insect pest control products. In fact, it was the first product registered in the turf and ornamental market in the spinosyn chemical class. It has a unique mode of action, which makes it compatible with Integrated Pest Management (IPM) programs and an excellent product for use in rotation programs designed to fight resistance.

Conserve SC also has less impact on certain predatory beneficial insects than most synthetic products. It was accepted for review and registration by the U.S. Environmental Protection Agency (EPA) through its Reduced Risk Pesticide Initiative, a program, which began in 1993, that expedites the review and registration decision-making process of new pesticides that have been shown to pose less risk to human health and the environment than existing conventional alternatives. Conserve® SC turf and ornamental insect control carries no precautionary signal word based on its favorable toxicological and environmental profile, and the Worker Protection Standard re-entry interval is only four hours.

HOW CONSERVE SC WORKS

Conserve SC is effective on target insects through both ingestion and contact exposure. Research trials show that Conserve SC acts within minutes on an insect's nervous system, causing the exposed insect to stop feeding. Other reactions include paralysis, tremors and immobility — all of which lead to death.

Complete control of exposed insects is generally expected within one to three days — comparable with other synthetic insect control products and much faster than most traditional biologicals. Yet Conserve SC provides up to two weeks of control.

Conserve® SC turf and ornamental insect control is not highly systemic, but does possess some leaf-penetrating characteristics. It has low odor and degrades rapidly in the environment, primarily through photolysis.

INSECTS CONTROLLED

Conserve SC controls a wide variety of turfgrass and ornamental insect pests, including:

- Bagworms
- Black cutworms
- Chilli thrips
- Eastern tent caterpillars
- Elm leaf beetles
- Fall armyworms
- Fall webworms
- Gypsy moth larvae
- Hickory tussock moth larvae
- Pod gall midges
- Sawflies
- Serpentine leafminers
- Sod webworms
- Spider mites (with an adjuvant)
- Spruce budworms
- Thrips
- Willow leaf beetles
- Yellownecked caterpillars

WHEN TO APPLY

Knowing when to control insect pests is as important as knowing which insects to control. Applications should be timed to occur when insect pests are still young and small — when they're most vulnerable. Spray Conserve SC just prior to when insect pests reach a damaging level as indicated by scouting.

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MORE INFORMATION ABOUT CONSERVE SC Integrated Pest Management (IPM)

Other than reducing the target pest species as a food source, Conserve SC does not significantly impact the natural predacious arthropod complexes, including ladybird beetles, lacewings, minute pirate bugs and predatory mites. The feeding activities of these predatory beneficials will aid in extending natural control of other insect pests and reduce the likelihood of secondary pest outbreaks.

Conserve® SC turf and ornamental insect control will not cause flare up of aphids or mites. However, if it is tank-mixed with any other insect control product that reduces its selectivity in preserving predatory beneficials, the full benefit of Conserve SC to an IPM program may not be realized.

Conserve SC is highly active on insects in the Hymenoptera family, so care must be taken if applications are made in greenhouses containing parasitic wasps. To ensure survival of introduced parasitic wasps, do not release them until 14 days after an application of Conserve SC.

Resistance Management

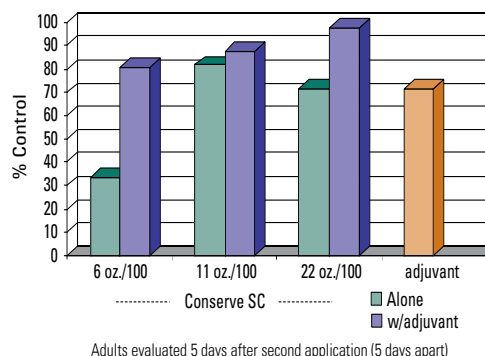
To preserve the effectiveness of Conserve SC in the control of various insect pests, there are several resistance avoidance recommendations included on the label. Consult the label for full text prior to making any applications.

Regardless of the crop or pest being treated, do not apply Conserve® SC turf and ornamental insect control more than 10 times in a 12-month period inside of a greenhouse. Also, because generations of a specific pest may overlap, rotate control products and never apply more than two consecutive applications of Conserve SC.

KEY BENEFITS

- **Fast and effective control.** Target pests exhibit symptoms within minutes of exposure, resulting in rapid cessation of plant or turf damage. Control is evident within one to three days.
- **Newer class of chemistry.** Spinosad, the active ingredient, is derived from a naturally occurring organism.
- **Unique mode of action.** This makes Conserve SC compatible with IPM and resistance management programs.

Control of Two-Spotted Spider Mites
with Conserve SC and a Nonionic Spray Adjuvant
Ohio, 1999 Greenhouse



- **Up to two weeks of control.**
- **Can be used near aquatic environments.** Because of the properties of spinosad, special mitigation measures are not required.
- **Friendly to beneficials.** Less impact on certain predatory beneficial insects than many synthetic control products.
- **No signal word.**
- **Four-hour WPS re-entry interval.**
- **Does not disturb ornamentals.** Research and field use have shown no phytotoxicity on ornamentals.
- **Dual activity.** Conserve SC is active on pests by ingestion and contact exposure.
- **Highly active at low use rates.**
- **Low odor.**
- **Convenient formulation.** Conserve SC is available as a sprayable suspension concentrate.

ADDITIONAL INFORMATION

Contact the Customer Information Center at Dow AgroSciences via e-mail (info@dow.com), fax (800-905-7326) or phone (800-255-3726) for more information. Or contact your Dow AgroSciences sales representative.



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