

ANTAPEX™ WSG: THE APEX OF ANT MANAGEMENT

Presented by Dr. Danny McDonald, Manager, Technical Services - Entomology



OVERVIEW

Antapex™ WSG is the newest water-soluble granule (WSG) formulation from Atticus, bringing you an easy-to-use, versatile, and effective product. With dinotefuran as the active ingredient, Antapex is a granule formulation that readily dissolves in water with no clogging of nozzles and filters. Antapex can be used in and around animal housing including poultry houses, hatcheries, swine barns, beef and dairy cattle pens, and even milking parlors. Another important use site is food handling establishments and processing plants. Key pests include ants, bed bugs, cockroaches, flies, crickets, bed bugs, Indian meal moths, mosquitoes, spiders, wasps and many more.



FIGURE 1. Fire ant nest in rodent bait station.
Photo credit: D. McDonald, Atticus

HOW DOES ANTAPEX WSG WORK?

Dinotefuran is a neonicotinoid that disrupts the insect nervous system by binding to acetylcholine receptors. Normally acetylcholine would bind to these receptors to stimulate a muscle to contract and then be quickly broken down by acetylcholinesterase to stop the signal. Dinotefuran can't be broken down by acetylcholinesterase, which means that affected insects experience irreversible nerve stimulation that leads to their paralysis and death.

USE RATES

Antapex can be diluted at three rates (10g, 20g, or 30g per gallon of water) depending on the target pest and use site. One gallon of solution will treat 1,000 ft². Tank mix Antapex with insect growth regulators such as Nixlo™ 1.3% EC to prevent immature insects from becoming reproductive adults. Reapplications may be made at 3-day intervals when applying as a crack, crevice, void or spot treatment, or at 6-day intervals when applying as a general surface treatment. When applying Antapex in and around production animal facilities, remove animals or treat in areas where animals are not present. That means that an application could be made to manure pits for fly control with birds upstairs. Treat normal fly resting areas such as ceilings, screens, upper corners of the area, around windows and doors, light fixtures and other surfaces known to attract flies.

PROVEN RESULTS

My graduate research on invasive ants demonstrated that dinotefuran WSG formulations worked tremendously on a wide range of invasive ant species including tawny crazy ants, Argentine ants, and red imported fire ants. Not only is dinotefuran efficacious on colonies, but the Antapex label allows for broadcast application to yards, lawns, fields, parks, cemeteries, landscaping and structures. In addition, treated ants can transfer dinotefuran WSG to non-treated ants. Ants that run through a treated area can carry dinotefuran back to their colonies and spread the insecticide to other members of the colony resulting in increased mortality. Another benefit to Antapex is that dinotefuran is non-repellent (unlike pyrethroids) so ants will not intentionally avoid treated areas. This makes Antapex an excellent choice for keeping fire ants out of rodent bait stations without repelling the rodents.



INSIDER INTEL

GET ANSWERS FROM THE EXPERTS