A Natural Fungal Predator of Insect Pests

Thrips

Aphids

Whiteflies



ACTIVE INGREDIENT:

Paecilomyces fumo n FE 9901, bla Inert Ingredients Total te of 4.0 x 10¹² ce ahter s strain FE 9901 ns 2x10° colony for units of Pancilom KEEP OUT OF REACH OF CHILDREN CAUTION

See back panel for additional precautionary statements

If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial Mediatation exclusion and an ambulance, then give artificial
f on skin or	Call a policin control center or doctor for treatment advice. Tale off contaminated clothing. Elses kinemediated clothing.
clothing:	Rine skii mediately with plenty of water for 15 - 20 minutes. -Call a policio-control center or doctor for treatment advice. mainer or label with you when calling a policion control center or doctor.

EPA Reg. No.: 73314-6 EPA Est No.: 73314-TX-001 Lot# Best If Used By:

Net Content: 2-lbs (912-grams

Mealybugs



How it Works

What is NoFly?

NoFly WP is a high concentration of the active ingredient *Paecilomyces fumosoroseus* strain FE 9901, a naturally occurring insecticidal microorganism. This aggressive fungus is a natural predator to select insect pests while non-pathogenic to beneficials. NoFly WP is also compatible with many chemicals making it an excellent tool for use in an Integrated Pest Management program. NoFly WP is effective against whiteflies, aphids, thrips and mealy bugs.

Host Range: Whiteflies, Aphids, Thrips, & Mealy Bugs

When spores of NoFly WP come into contact with the insect pest they attach to the body and begin to grow almost immediately. Once the spore germ tube penetrates the host cuticle, fungal multiplication takes place through formation of hyphal bodies in the host hemocoel. The NoFly microbe mechanically disrupts the host's internal organs and initiates tissue necrosis. This leads to lack of feeding, inactivity and eventually death.

The end result? Insect pests sprayed with NoFly WP stop feeding in about 24 hours and are killed in about 5 days.

CROP	PEST	DOSES (lb/100 gal.)	APPLICATION DIRECTIONS
Greenhouse and Nursery Ornamentals	Eggs and larvae of whiteflies, thrips, aphids and mealy bugs	1-2	Apply at first symptoms of pest attack. Minimum 3 applications at 5-7 day intervals or shorter in severe infestations









Call 832.647.9663 for more information.

Directions For Use

NoFlyWP consists of spores of an entomopathogenic fungus that are susceptible to high temperatures, dryness and ultraviolet radiation. Avoid these potential adverse effects by applying the product in late afternoon, in the early morning and at mid to high relative humidity (if practical, pre-watering of crop is strongly suggested). Use sufficient water to ensure thorough coverage of the foliage including the underside of leaves.

Features & Benefits

- Biological pesticide
- Attacks pests at all life stages from egg to adult
- Minimal residue issues
- · Ideal for integrated pest management
- Safe for beneficial insects
- · 6-month shelf life when refrigerated

NoFly WP Fogger Application

- NoFly can be used with a cold fogger (e.g. Dramm AutoFogger)
- · Do not use with heat-generating foggers
- Maximum dilution of 10-oz/gal of water

Safe and Effective

Paecilomyces fumosoroseus FE 9901 is not a plant pathogenic organism and does not produce significant detrimental effects on beneficial insects, including bees and bumblebees. The only residues derived from applications of NoFly WP are short lived spores that should not present any environmental persistence concerns in soil, water, or air. These characteristics make this product an idea tool for Integrated Pest Management Programs.







Technical Information

Organism (Active Ingredient): Paecilomyces fumosoroseus strain FE 9901

General Description:

Naturally-occurring fungus, geographically widespread, and common pathogen of insect pests

Pests Suppressed/Controlled:

Whiteflies (*Bemisia*, *Trialeurodes*, *Lecanoideus*, *Aleuroidicus*), aphids, thrips, mealy bugs and potentially other hosts

Origin:

Isolated from the carcass of a whitefly

Temperature Tolerance:

Optimal temperature for sporelation of *Paecilomyces* spores is between 72-84° F (22-28° C).

Humidity:

Optimal humidity of *P. fumosoroseus* FE 9901 is 50% or greater. If humidity is below 50%, spray product immediately after general watering or irrigation.

PH Tolerance:

NoFly WP is unaffected by pH ranges from 4.0 - 9.0

Shelf Life:

NoFly WP will remain viable at room temperature for up to three months. Refrigeration will extend the shelf life to 6 months. It is recommended that this product be stored in a refrigeration unit or at temperatures below 41° F (5° C).

Chemical Compatibility:

NoFly WP is compactible with some synthetic and natural insecticides and fungicides. See backside of this brochure for current list. Before mixing products not on this list, please call for technical advice from Natural Industries at 888-261-4731.

UV Sensitivity:

The spores of NoFly WP are UV sensitive. Product should be sprayed in the early morning hours or evening to prevent degradation.





www.blacksmithbio.com



NoFly WP Product Compatibility

Active Substance	Brand Names	Spore Survivability	Compatible
Copper oxychloride 50%		55.57%	NO
Fenarimol 12%		73.31%	NO
lprodione 50% + Cyproconazole10%		79.19%	NO
Piperalin	Pipron		NO
Azoxystrobin	Heritage		NO
Pyrimethanil 40%		85.84%	Partially
Streptomycin			YES
Beauveria bassiana 2.3%	Botanigard, Naturalis O	100%	YES
Natural pyrethrins 4%		100%	YES
Pirimicarb 50%		95.75%	YES
Acrinathrin 7.5		88.80%	YES
Imidacloprid 20-24%		94.34%	YES
Propamocarb 60.5%		100%	YES
B. subtilus QST 713	Cease, Serenad	e 100%	YES
Streptomyces nigrescens MR541	Forge	100%	YES

NoFly Predator Insect Compatibility

Predator Name	Harmful to Predator
Encarsia formosa	NO
Eretmocerus mundus	NO
Macrolophus caliginosus	YES
Orius laevigatus (N1)	NO
Aphis mellifera (contact)	NO
Aphis mellifera (oral)	NO

Blacksmith BioScience 504 Spring Hill Dr. #440 Spring Texas 77386 www.blacksmithbio.com 832.647.9663

DISTRIBUTED BY: