

# BOTANIGARD® MAXX

## Mycoinsecticide



An American Vanguard Company

FOR USE ON ORNAMENTALS AND VEGETABLES IN NURSERIES, GREENHOUSES, SHADEHOUSES, COMMERCIAL LANDSCAPES, INTERIORSCAPES, AND ON TURF

### Product Information Bulletin

187

## GENERAL INFORMATION

**BOTANIGARD MAXX** is a botanical insecticide that offers activity on a wide range of insect and mite pests as a foliar spray, or aerial application. **BOTANIGARD MAXX** should be used at the first sign of pest activity and may be used multiple times in a crop. **BOTANIGARD MAXX** contains the live spores of the entomopathogenic fungus, *Beauveria bassiana* strain GHA, plus natural pyrethrins.

**Common Name:** *Beauveria bassiana* strain GHA.

**Class:** Biopesticide fungal agents

GROUP	3A	INSECTICIDE
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**Packaging:** Gallon (4 x 1 gal. case); 2.5 gallon (2 x 2.5 gal.).

## RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours** Signal Word = **WARNING**

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicator and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or viton
- Shoes plus socks
- Protective eyewear

## ADVANTAGES OF BOTANIGARD

- Broad labeling including food crop uses
- Compatible with BCAs and IPM practices
- 0-day Pre-Harvest Interval (PHI)
- No resistance development
- No limit on number of applications

## MODE OF ACTION

**BOTANIGARD MAXX** acts by contact. Fungal spores attach to the insect, germinate, and penetrate through the cuticle. The fungus then grows within the pest, causing mortality. Pyrethrins exert their toxic effects by disrupting the sodium and potassium ion exchange process in insect nerve fibers and interrupting the normal transmission of nerve impulses. Typically, it takes 2-5 days after the first spray to see control.

## USE SITES

**BOTANIGARD MAXX** may be used on crops grown in greenhouses, indoor/outdoor nurseries, shade houses, mushroom houses, commercial landscapes, interiorscapes, and on turf (see label for complete list of use sites).

## INSECTS CONTROLLED

Leaf Beetles	Root Weevils
Aphids	Mealybugs
Armyworms	Midges
Flea Beetles	Caterpillars
Japanese Beetles	Spider Mites
Loopers	Psyllids
Lace Bugs	Stink Bugs
Leafminers	Thrips
	Whiteflies

(See label for complete list of insects controlled)

## APPLICATION RATES

**BOTANIGARD MAXX** rates range from ¼ to 1 qt. per 100 gal. of water depending on target pest. Use higher rates when pest pressure is high. Refer to the label for specific rates.

## TANK MIXING

**BOTANIGARD MAXX** is physically and biologically compatible with a wide range of insecticides, fungicides, and spray adjuvants although some fungicides and insecticides may kill spores. Follow the most restrictive label limitations with tank mix partners.

## RESISTANCE MANAGEMENT

There has been no reported resistance to the active ingredient in **BOTANIGARD MAXX**. There is no limit on the number of applications or total amount of product that can be applied in one season.

## COMPATIBLE BIOLOGICAL CONTROL AGENTS WITH BOTANIGARD 22WP AND MYCOTROL WPO

The introduction of Biological Control Agents (BCAs) is often a component of an Integrated Pest Management (IPM) program and an awareness of use with compatible products is essential to the success of the program.

BotaniGard 22 WP\* and Mycotrol WPO\* are effective biological insecticides that are used to control many

insects and are based on the highly successful fungus, *Beauveria bassiana* strain GHA. The applied spores infect the soft body of an insect directly. Consequently, growers need to be able to assess how they can be used in their IPM program, for example, as a spot treatment or by broad application.

## BIOLOGICAL CONTROL AGENTS AND THEIR USE WITH BOTANIGARD 22WP AND MYCOTROL WPO

Genus	Species	OHP Recommendation
Aphidius	colemani	Ok on mummies. Some reduction of adult population. Wait until mummification is extensive before applying. Avoid banker plants.
Aphidius	ervi	Ok on mummies. Some reduction of adult population. Wait until mummification is extensive before applying. Avoid banker plants.
Aphidoletes	aphidimyza	Use only with high population.
Chrysoperla	carnea	Apply 5 days prior to release.
Coleoptera	sp.	Ok to apply with adults.
Cryptolaemus	montrouzieri	Ok to apply.
Diglyphus	isaea	Ok to Apply -- Wait for a population of adults to build.
Encarsia	formosa	Use only with high population of parasite. OK on parasitized whitefly pupae.
Eretmocerus	eremicus	Use only with high population of parasite.
Heterorhabditis	bacteriophora	Ok to apply
Hypoaspis (Stratiolaelaps scimitus)	miles	Ok to Apply
Neoseiulus (Amblyseius)	californicus	Ok to Apply
Neoseiulus (Amblyseius)	cucumeris	Ok to Apply
Neoseiulus (Amblyseius)	fallacis	Ok to Apply
Orius	insidiosus	Apply prior to introduction of Orius
Phytoseiulus	persimilis	Apply 5 days prior to release.
Steinernema	carpocapsae	Ok to Apply
Steinernema	feltiae	Ok to Apply
Trichogramma	spp.	Ok to Apply

\*Resources were reviewed for the compatibility of the BotaniGard/Mycotrol active ingredient with BCAs and a summary of the findings is provided. Please refer to product label for proper application and your BCA supplier for further information.

Use of BOTANIARD 22WP according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container of BOTANIGARD 22WP. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read product label prior to product use.

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