

# BotaniGard<sup>®</sup> 22WP

MYCOINSECTICIDE

BotaniGard 22WP is a biological insecticide (Mycoinsecticide – Wettable Powder) for the control of adult and immature stages of aphids, thrips and whiteflies.



## BENEFITS & FEATURES

- Highest spore concentration in a *Beauveria* containing insecticide
- May be used as a pre-plant dip for greenhouse ornamental cuttings
- Excellent tool for resistance management
- Controls the early stages of insects, preventing population outbreaks and the need for rescue treatments
- Use on greenhouse ornamentals, vegetables, herbs, strawberries, wasabi and cannabis (marijuana) that is produced commercially indoors
- Compatible with many beneficials; an integral component of IPM programs
- NOT dependent on high relative humidity for efficacy

## PROVEN & EFFECTIVE

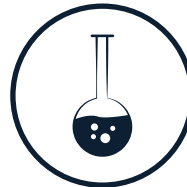
For more than 20 years, Certis Biologicals has been a pioneer in the field of biological pesticides. With a proven, broad portfolio of crop protection solutions for organic and conventional production, Certis Biologicals has the answers growers need in today's dynamic greenhouse, nursery and Controlled Environment Agriculture (CEA) markets. Certis Biologicals is a leader in commercializing new product innovations in bio-control to solve tomorrow's agricultural issues.

### INSECT CONTROL



BotaniGard 22WP is a biological insecticide for the control of adult and immature stages of aphids, thrips, whiteflies and more. BotaniGard 22WP even controls resistant strains such as Q-Biotype whitefly.

### SUPERIOR FORMULATION



BotaniGard 22WP contains the highest spore concentration in a *Beauveria*-containing insecticide. It is versatile enough to use as a stand-alone, as a tank-mix partner or in rotation with other insecticides.

### UNIQUE MODE OF ACTION



The applied spores infect directly through the outside of the insect's cuticle. Spores adhere to the host, germinate, produce enzymes, and dissolve the insect's cuticle. The fungus infects the insect directly through the cuticle. After penetrating the insect BotaniGard 22WP grows inside and takes over the insect's body.



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## PRODUCT INFORMATION

### SHELF LIFE

Below 32 °F (0 °C): Not needed  
Refrigeration 40 °F (4 °C): Not needed  
70 - 75 °F (21 - 24 °C): 12 months\*  
35 °C (95 °F): < 6 months  
Best to store below 25 °C, and above 0 °C

\*From the date of manufacture

Registration No. 29321

- *Beauveria bassiana* strain GHA
- Available Sizes: 500 g
- Registered for use in Canada
- 4-hour REI, 0-day PHI

For use on greenhouse ornamentals, vegetables, herbs, strawberries, wasabi and cannabis (marijuana) that is produced commercially indoors.



## APPLICATION NOTES

### BROAD SPECTRUM CONTROL

- Aphids
- Thrips
- Mealybugs
- Two Spotted Spider Mites
- Leafhoppers
- Weevils
- Plant Bugs
- Whiteflies
- Psyllids

### RECOMMENDATIONS

- Shake the container before measuring out product

- Apply at first appearance of insect pests
- Apply at 7-day intervals to prevent insect population outbreaks
- Spray to wet, but avoid runoff
- To regain control of well established infestations, make 3 applications at an intervals of 3-5 days apart
- Insects are killed long before the appearance of any white mycelium
- Thorough coverage of both side of leaves and stems is required for control



## APPLICATION RATES

INSECT PESTS	APPLICATION	RATE*
Whiteflies, aphids	Spray	250 - 500g/400L spray volume
Thrips	Spray	500g - 1kg /400L spray volume
Whiteflies	Pre-Plant Dip	1.25g/L dip suspension

\*Rate dependent on insect population and foliage density

There is no limit to the number of times that BotaniGard 22WP can be applied in a season. A weekly application program can prevent insect population outbreaks and provide a level of control comparable to conventional chemical programs.



## CONTACT US

### TECHNICAL SUPPORT

If you are a commercial grower with questions, or if you want to discuss a particular issue, contact us. Our team is ready to discuss your crop-specific issues or any questions you have about our products. We will provide you with rapid, comprehensive and personalized support.