

Annotated Label (KT) 2009-May-01  
Sub. No. 2004-1109

BOTANIGARD 22WP

**Wettable Powder Mycoinsecticide**

**For use in controlling Whitefly, Aphids, and Thrips in Greenhouse  
Ornamentals and Vegetables**

COMMERCIAL  
WARNING - EYE IRRITANT  
CAUTION – SKIN IRRITANT  
POTENTIAL SENSITIZER

READ THE LABEL BEFORE USING

GUARANTEE: *Beauveria bassiana* Strain GHA 4.4 x 10<sup>13</sup> conidia/kg

KEEP OUT OF REACH OF CHILDREN

CAUTION

REGISTRATION NUMBER XXXXX PEST CONTROL PRODUCTS ACT

Warning: This product contains the allergen sulfite.

NET CONTENTS: 500 grams

**Laverlam International Corporation (LVM)**

PO Box 4109  
Butte, MT 59702  
USA  
(406) 782 2386

**GENERAL INFORMATION:**

BotaniGard 22WP contains live spores of the naturally occurring fungus, *Beauveria bassiana* Strain GHA. BotaniGard 22WP is wettable powder mycoinsecticide formulated to control whiteflies, aphids, and thrips in greenhouse ornamentals and vegetables. Spores are alive and may be harmed by storage at high temperatures or contact with water for more than 24 hours.

**MODE OF ACTION AND APPLICATION TIMING:**

Begin treatment of crops at the first appearance of the insect pest. Typically, it takes 7-10 days after the first spray to see control. Application rates, frequency, spray coverage and insect numbers impact the speed at which acceptable control is achieved. BotaniGard 22WP is most effective when used early, before high insect populations develop. Reapply as necessary under a pest management program that includes close scouting. Intense pest outbreaks may require a combination of BotaniGard 22WP with a compatible insecticide.

**PRECAUTIONS:**

**KEEP OUT OF REACH OF CHILDREN.** May cause sensitization. Causes eye irritation. **DO NOT** get in eyes. May irritate skin. Avoid contact with skin and clothing. Avoid breathing vapours (dust or spray mist). Wash thoroughly with soap and water after handling.

*If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)*

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Applicators and other handlers must wear: Coveralls over long-sleeved shirt and long pants, shoes plus socks, water-proof gloves and dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**ENVIRONMENTAL PRECAUTIONS:**

This product may be toxic to bees exposed to direct treatment, or drift. **DO NOT** apply this product while bees are actively foraging. Minimize overspray to reduce harmful effects on bees in greenhouses.

May be harmful to beneficial insects. Avoid direct contact with beneficial insects.

**FIRST AID:**

**DANGER.** This product contains petroleum distillates.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

Have container, label or product name and product registration number with you when calling a poison control center or doctor, or when seeking medical attention.

**TOXICOLOGICAL INFORMATION:**

No specific antidote available. Treat the patient symptomatically.

**PRE-HARVEST INTERVAL:**

Pre-harvest interval for BotaniGard 22WP is zero (0) days. BotaniGard 22WP can be applied up to the day of harvest.

**AGRICULTURAL USE REQUIREMENTS:**

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours. Workers can enter treated areas during the REI if appropriate PPE is worn, including a long sleeved shirt, long pants, shoes plus socks and waterproof gloves as well as a NIOSH approved respirator with any N-95, R-95 or HE filter for biological products.

**CROPS ON WHICH BOTANIGARD 22WP MAY BE USED:**

BotaniGard 22WP can be used on greenhouse ornamentals and vegetables.

**PESTS CONTROLLED:**

BotaniGard 22WP will effectively control whiteflies, aphids and thrips in a greenhouse environment.

**APPLICATION/DIRECTIONS****MIXING AND APPLICATION:**

To mix, fill spray tank with half the desired amount of water and start agitation. Use a measuring cup, spoon or calibrated container to add the appropriate quantity of BotaniGard 22WP to obtain the required concentration to the spray tank and mix thoroughly. Add remainder of desired amount of water.

Triple rinse empty BotaniGard 22WP container with water and add rinse water to spray tank. For best results, continue agitation during spraying. Do not mix more BotaniGard 22WP than needed for that day. Do not mix BotaniGard 22WP the day before application. Spores will die if left overnight or longer in the spray tank.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply this product to fresh water habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

**CAUTION:** BotaniGard 22WP contains live spores. Use of this product in an integrated pest management (IPM) program must take into consideration that fungicides, some insecticide formulations, and some wetting agents and spreaders may kill the spores.

**APPLICATION FREQUENCY:**

Apply BotaniGard 22WP at 5-10 day intervals. High insect populations, especially whitefly and aphids, may require application at 2-5 day intervals. Repeat applications for as long as pest pressure persists. There is no limit on the number of applications or total amount of BotaniGard 22WP which can be applied in one season.

**DO NOT** tank mix BotaniGard 22WP with any fungicide, insecticide or adjuvant.

**APPLICATION RATE:**

Spray to wet, but avoid runoff

Insect	Rate
Whiteflies, Aphids	250-500 g-1L per 400 Litres spray volume
Thrips	500 g to 1 kg per 400 Litres spray volume

**CAUTION:** Use of BotaniGard 22WP, especially at higher application rates, may result in commercially unacceptable visible residues. To minimize the risk of unacceptable visible residues on crop, test product by treating a small portion of the crop to determine if visible residues are acceptable.

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Store at room temperature (25C) for no more than 9 months, or at 35C for no more than 3 months. Tightly reclose the container of unused product. Do not contaminate unused product with water.

**DECONTAMINATION AND DISPOSAL:**

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.