

BOTANIGARD® 22WP

Wettable Powder Mycoinsecticide

FOR EMERGENCY USE ONLY

Emergency Registration for the control of Rice Root Aphid on Cannabis (marihuana) produced commercially indoors. For sale and use in British Columbia, Saskatchewan Ontario, Quebec, New Brunswick, Prince Edward Island and Newfoundland & Labrador from June 8, 2020 until June 7, 2021.

COMMERCIAL
WARNING – EYE IRRITANT
CAUTION – SKIN IRRITANT
POTENTIAL SENSITIZER

READ THE LABEL BEFORE USING

ACTIVE INGREDIENT: *Beauveria bassiana* strain GHA.....4.4 X 10¹³ conidia / kg

KEEP OUT OF REACH OF CHILDREN

CAUTION

REGISTRATION NUMBER 29321 PEST CONTROL PRODUCTS ACT

Warning: This product contains the allergen sulfite.

NET CONTENTS: 500 grams

LAM International Corporation (LVM)
P.O. Box 4109, Butte, MT 59702, USA
Phone: BioWorks (North American Distributor) 1-800-877-9443

GENERAL INFORMATION:

BotaniGard® 22WP contains live spores of the naturally occurring fungus, *Beauveria bassiana* Strain GHA. BotaniGard® 22WP is a mycoinsecticide formulated to control rice root aphid on Cannabis (marihuana) produced commercially indoors. 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. BotaniGard® 22WP is most effective when used early, before high insect populations develop. Use in a pest management program that includes close scouting and re-apply as indicated under the Directions for Use.

If using the spray application method, application rates, frequency, spray coverage and insect pest numbers will impact the speed at which acceptable control is achieved. Follow specific use directions below.

SEEDING /ROOTING:

- Apply as a dip to cuttings and at transplant to target all life stages

SEEDING THROUGH FLOWERING:

- Apply as a drench to soil dwelling stages
- Apply as a foliar spray when winged adults are present

MOTHER PLANTS:

- Apply as a drench to soil dwelling stages
- Apply as a foliar spray when winged adults are present

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: Coveralls over long-sleeved shirt and long pants, shoes plus socks, water-proof gloves, eye goggles 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:

When using the spray application method, 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 when using spray applications. In order to be protective of beneficial insects, minimize overspray in the greenhouse.

This product contains aromatic petroleum distillates which are toxic to aquatic organisms.

FIRST AID:

DANGER. This product contains petroleum distillates.

IF SWALLOWED:

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

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.

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.

Seek medical attention IMMEDIATELY if irritation occurs and persists or is severe. Take container label, or product name and Pest Control Product Registration Number with you 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; however, it is recommended that foliar application is suspended 3-4 week prior to harvest.

STORAGE:

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

AGRICULTURAL USE REQUIREMENTS:

Following spray application, 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.

DIRECTIONS FOR USE

CROP	INSECT	DOSAGE	USE INSTRUCTIONS
Cannabis (produced commercially indoors)	Control of Rice Root Aphid	Rice Root Aphid Spray: 500 g to 1 kg per 400 litres spray volume	High pest pressure: apply 2-3 times, 3-5 days apart Low pest pressure: every 7-10 days It is recommended that foliar application is suspended 3-4 weeks prior to harvest No limit to the number of applications
		Rice Root Aphid Dip: 2.5 g/L Dip suspension (125 g/50 L water)	At cutting and transplant No limit to the number of applications
		Rice Root Aphid Drench: 500 g to 1 kg per 400 litres	High pest pressure: apply 2-3 times, 3-5 days apart Low pest pressure: every 7-10 days No limit to the number of applications

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

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.

SPRAY APPLICATION METHOD FOR CONTROL OF RICE ROOT APHID ON CANNABIS PRODUCED COMMERCIALY INDOORS:

DIRECTIONS FOR USE

MIXING AND APPLICATION:

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

PRE-PLANT DIP APPLICATION METHOD FOR CONTROL OF RICE ROOT APHID ON CANNABIS PRODUCED COMMERCIALY INDOORS:

BotaniGard® 22WP may be applied as pre-plant dips for cuttings as noted below. To prepare dip suspension, thoroughly mix 2.5 g of BotaniGard® 22WP with 1 Litre of water (125 g/50 L water).

To maximize efficacy:

- Agitate dip suspension throughout use to keep product in suspension.
- Prepare a new dip suspension regularly to avoid potential accumulation of plant pathogens.
- Prepare only as much dip suspension as can be used in one day. Do not use dip suspension for more than one day. Conidia/Spores suspended in water for more than 24 hours will die.
- Disinfect the dipping tank and equipment before a new dip suspension is prepared.
- Avoid exposing dipped cuttings to full sun.
- Do not use on stressed/wilting cuttings.
- Do not use without determining crop sensitivity (phytotoxicity) first.

- **Unrooted Cuttings**

Place unrooted cuttings in a mesh immersion tray with a lid. Ensure the cuttings are not packed too tightly in tray to promote maximum surface area coverage. Immerse the tray completely, gently moving the tray around in the suspension for at least 5 seconds to allow the suspension to completely saturate all surfaces. Verify that there are no dry surface areas after dipping. Then proceed with normal planting and misting.

- **Rooted Cuttings**

Holding by the roots, briefly dip in the BotaniGard® 22WP solution just long enough to wet all surfaces, including leaves and stems. Once removed from the dip solution, cuttings can be potted, but allow plants to dry before watering.

DRENCH APPLICATION METHOD FOR CONTROL OF RICE ROOT APHID ON CANNABIS PRODUCED COMMERCIALY INDOORS

BotaniGard® 22WP may be applied as a drench treatment for rice root aphids on established plants.

Apply this product only through hand-held calibrated irrigation equipment such as a hand-held wand with injector. DO NOT apply this product through drip irrigation systems.

To maximize efficacy:

- Agitate drench suspension throughout use to keep product in suspension.
- Prepare only as much drench suspension as can be used in one day. Do not use drench suspension for more than one day. Conidia/spores suspended in water for more than 24 hours will die.
- Disinfect the tank and irrigation equipment used to prepare and apply the drench before a new suspension is prepared.
- Ensure growing medium is moist prior to application to facilitate the movement of spores throughout the substrate.
- Apply sufficient volume to ensure thorough wetting of the growing medium but not to the point of leaching.
- Ensure uniform distribution of applied product.

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® 22 WP 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.

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 a control product in a way that is inconsistent with the directions on the label.