



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 23, 2020

Ana R. Koster  
Global Regulatory Affairs Manager  
LAM International Corporation  
117 South Parkmont St.  
Butte, MT 59701

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Update  
Directions for Use and add Hemp  
Product Name: Botanigard 22WP  
EPA Registration Number: 82074-2  
Application Date: 09/20/2019  
OPP Decision Number: 555692

Dear Ms. Koster,

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

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EPA Reg. No. 82074-2  
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Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Bibiana Oe by phone at (703) 347-8162 or via email at [oe.bibiana@epa.gov](mailto:oe.bibiana@epa.gov)

Sincerely,

A handwritten signature in black ink, appearing to read "SEICHI MURASAKI". The signature is stylized with a large, sweeping initial "S" and a cursive "MURASAKI".

Seichi Murasaki, Senior Regulatory Advisor  
Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure: Stamped Label

# BOTANIGARD® 22WP

## Wettable Powder Mycoinsecticide

{Alternate Brand Names: Mycotrol® WPO, BoteGHA™ 22WP}

{All of the following front panel bursts are optional; one or more may be used}

For Control of Whiteflies, Aphids, Thrips, Psyllids, Mealybugs, Leafhoppers, Weevils, Plant Bugs, Borers and Leaf-feeding Insects on Listed Food Crops, Forestry, and Orchard Crops

For Control of Grasshoppers, Mormon Crickets, Locusts and Beetles on Rangeland, Improved Pastures, and Listed Food Crops

For Control of Whiteflies, Aphids, Thrips, Psyllids and Mealybugs on Listed Food and Nonfood Crops Grown Outdoors, in Indoor/Outdoor Nurseries, Greenhouses, Shadehouses, Commercial Landscapes (including turf, sod, and ornamental plants), and Interiorscapes, and on Turf

### ACTIVE INGREDIENT:

*Beauveria bassiana* Strain GHA.....22.0%\*

INERT INGREDIENTS:..... 78.0%\*\*

Total:.....100.0%

\*Contains a minimum of  $1 \times 10^{13}$  viable spores per pound of product

\*\*Contains petroleum distillates

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

See [additional] [precautionary statements] [first aid statements] [and] [directions for use] [on [side][back][other] panel] {or} [in attached booklet].

[See [side][back][inside][other] panel for [additional] [first aid] [precautionary] statements [and] [directions for use].]

[Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.]

Store between 40°F and 85°F

### MANUFACTURED

### BY:

LAM INTERNATIONAL CORPORATION  
117 South Parkmont; PO Box 4109  
Butte, MT 59702



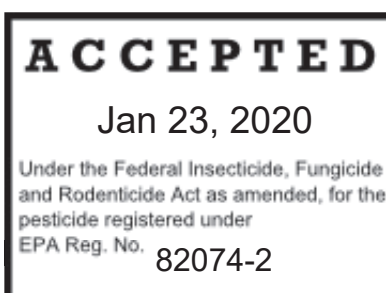
EPA Reg. No.: 82074-2

EPA Est. No.: \_\_\_\_\_

Lot Number: \_\_\_\_\_

Net Contents: \_\_\_\_\_

[Best If Used By: [insert date up to 1 yr from date of manufacture]]



{ } Symbolizes explanatory text to the reviewer  
[ ] Indicates optional text

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Immediately call a poison control center or doctor.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give any liquid to the person.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes moderate eye irritation. Harmful if absorbed through the skin, inhaled or swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile rubber or butyl rubber
- Shoes plus socks

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

This product is potentially pathogenic to honey bees. Avoid applying to areas where honey bees are actively foraging or around bee hives. This product may be toxic to fish. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters or rinsate. Do not discharge into lakes, streams, ponds, or public waterways.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Suitable for use with ultra low-volume application equipment.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box apply only to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours unless wearing the appropriate personal protective equipment.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water) is:

- Coveralls
- Chemical-resistant gloves such as nitrile rubber butyl rubber
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

### **GENERAL INFORMATION**

BotaniGard® 22WP contains live spores of the naturally occurring fungus, *Beauveria bassiana* Strain GHA. Spores are alive and may be harmed by storage at high temperatures or contact with water for more than 24 hours. See STORAGE AND DISPOSAL instructions on the container label.

### **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 combination of BotaniGard® 22WP with a compatible insecticide.

Contact LAM International Corporation or your distributor for specific information on compatible insecticides.

### **PRE-HARVEST INTERVAL**

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

### **INSECTS FOR WHICH BOTANIGARD® 22WP MAY BE USED**

(\*Not for use in California)

#### **ORTHOPTERA**

Grasshoppers	Locusts	Mole crickets	Mormon crickets
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#### **WHITEFLY**

Banded-winged whitefly	Citrus blackfly	Greenhouse whitefly	Sweet potato whitefly
Cassava whitefly*	Citrus whitefly	Silverleaf whitefly	Tobacco whitefly
	Giant whitefly		

#### **APHIDS**

Bean aphid	Green peach aphid	Melon aphid	Russian wheat aphid
Cabbage aphid		Pea aphid	
Cotton aphid	Greenbug	Potato aphid	Spotted alfalfa aphid
Cowpea aphid	Hop aphid	Rose aphid	

**THRIPS**

Greenhouse thrips	Onion thrips	<i>Thrips palmi</i>
Cuban laurel thrips	Pear thrips	Western flower thrips
	Potato thrips	

**PSYLLIDS**

Pear psylla	Tomato psylla	Potato psylla
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**MEALYBUGS**

Citrus cocci*	Buffalo grass mealybug	Grape mealybug	Longtailed mealybug
Citrus mealybug			

**LEAFHOPPERS AND PLANTHOPPERS**

Grape leafhopper	Potato leafhopper	Variegated grape leafhopper	Virginia creeper leafhopper
Leafhoppers	Rice delphacid*		
Planthoppers			

**STEM-BORING LEPIDOPTERA**

European corn borer	Lesser cornstalk borer	Southwestern corn borer
	Rice stem borer	Sugarcane Borer

**FOLIAGE-FEEDING LEPIDOPTERA**

Diamondback moth	Cabbage looper	Imported cabbage worm
	Fall armyworm*	

**LEAF-FEEDING BEETLES**

Bean leaf beetle	Colorado potato beetle	Corn rootworm	Elm leaf beetle
Cereal leaf beetle		Cucumber beetles	Flea beetles

**SCARAB BEETLES**

Ataenius	Green June beetle	White grubs
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**PLANT BUGS (HETEROPTERA)**

Chinch bugs	Lace bugs	Seed bugs	Tarnished plant bug
Fleahoppers	Lygus bug	Stink bugs	

**WEEVILS**

Alfalfa weevil	Coffee berry borer*	Pepper weevil	Strawberry root weevil
Apple curculio		Plantain weevil*	Sweet potato weevil
Billbugs	Cotton boll weevil	Plum curculio	
Black vine weevil	Fuller rose weevil	Root weevil	
Citrus root weevil	Palm weevil*	Rose curculio	Vegetable weevil
	Pecan weevil		

**ACARI**

Twospotted spider mite\*

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

**FOOD CROPS**

**FRUITS AND BERRIES**

Apple	Cranberry	Lime	Persimmon
Apricot	Currant	Loganberry	Pineapple
Avocado	Dates	Loquat	Plum
Bananas	Dewberry	Lychee	Pomegranate
Blackberry	Durian	Mandarin	Prune
Blueberry	Elderberry	Mango	Pummelo
Boysenberry	Fejoa	Marionberry	Quihuna
Calamondin	Fig (fruiting)	Nectarine	Quince
Carob	Gooseberry	Olallie berry	Raspberry
Cherimoya	Grape (table, raisin, wine)	Olives (all varieties)	Sour cherry
Cherry (sweet/sour)	Grapefruit	Orange	Strawberry
Chironja	Guava	Oriental pear	Sweet cherry
Citrus citron	Huckleberry	Papaya	Tangelo
Citrus hybrids	Kiwi	Passion fruit	Tangerine
Coffee	Kumquat	Peach	Youngberry
Crabapple	Lemon	Pear	

**HERBS AND SPICES**

Allspice	Chives	Mace	Sage
Anise	Cilantro	Marjoram	Saffron
Balm	Cinnamon	Mint	Savory
Basil	Clary	Mustard	Sesame
Borage	Coriander	Nasturtium	Spearmint
Burnet	Costmary	Nutmeg	Sweet bay leaf
Chamomile	Cumin	Oregano	Tansy
Caperbuds	Curry leaf	Paprika	Tarragon
Caraway	Dill	Pennyroyal	Thyme
Cardamom	Fennel	Pepper (black/ white)	Wintergreen
Catnip	Fenugreek	Peppermint	Woodruff
Celery seed	Ginseng	Rosemary	Wormwood
Chervil	Horehound	Rue	
Chicory	Hyssop		



### **VEGETABLES**

Acerola	Chickpeas	Gherkin	Persian melon
Arracacha	Chicory	Ginger	Pimento (all varieties)
Arrowroot	Chinese broccoli	Golden pershaw melon	Pineapple melon
Artichoke	Chinese cabbage	Gourds (edible)	Potato
Arugula	Chinese gai lon	Groundcherry	Pumpkin
Asparagus	Chinese long beans	Guar	Purslane
Atermoya	Chinese mustard	Honey balls	Radish
Balsam pear	Chinese spinach	Honeydew melon	Radicchio
Bamboo shoots	Chinese wax gourd	Horseradish	Rambutan
Beans (all varieties)	Chrysanthemum (edible)	Kale	Rape greens
Beet	Chufa	Kohlrabi	Rapini
Black-eyed peas	Cilantro	Leek	Rhubarb
Bok choy	Citron melon	Lentils	Rutabaga
Broccoli	Collards	Leren	Salsify
Broccoli raab	Corn salad	Lettuce	Shallot
Brussels sprouts	Crenshaw melon	Mango melon	Snake melon
Burdock	Cress	Muskmelon	Soybeans
Cabbage	Cucumber	hybrids/varieties	Spinach
Cantaloupe	Dandelion	Mustard greens	Squash (summer/winter)
Carambols	Dasheen	New Zealand spinach	Sugar beet
Carrots	Daikon	Okra	Sweet potato
Casaba melons	Dock	Onion	Swiss chard
Cassava	Edamame	Orach	Tanier
Catjang	Eggplant	Parsley	Tomatillo
Cauliflower	Endive	Parsnip	Tomatoes
Celeriac	Escarole	Peas (all varieties)	Turmeric
Celery	Fennel	Pepinos	Turnip
Celtuce	Garlic	Pepper (all varieties)	Watermelon
Chayote			Yam
Chervil			Zucchini

### **TREE NUTS**

Almonds	Cashew	Hickory nut	Walnut
Beech nut	Chestnut	Macadamia nut	
Brazil nut	Chinquapin	Pecan	
Butternut	Filbert	Pistachios	

**GRAIN, ROOT & TUBER, AND OTHER CROPS**

Alfalfa	Corn, seed	Rape	Sugarcane
Barley	Cotton	Peanut	Sunflower
Buckwheat	Flax	Potato	Sweet potato
Canola	Hay	Rice	Tea, black
Clover	Hemp	Rye	Tea, green
Corn, field	Hops	Safflower	Teosinte
Corn, sweet	Joboba	Sorghum	Triticale
Corn, pop	Millet	Soybeans	Wheat
Corn, silage	Oats	Sugar beets	Wild rice

**NONFOOD CROPS**

**ORNAMENTALS**

**(including flowers, flowering and foliage plants, bedding plants, groundcovers, shrubs, vines, evergreens, and trees)**

African lily	Celosia	Ficus	India hawthorn
African violet	Chenille plant	Fig (nonfruiting)	Iris
Ageratum	Cherro	Firethorn	Ivy
Alyssum	Christmas cactus	Fittonia	Japanese aucuba
Anthurium	Chrysanthemum	Floss flower	Japanese barberry
Arborvitae	Cineraria	Foliage plants	Japanese boxwood
Ash	Cleyera	Forsythia	Japanese spindle tree
Asparagus sprengeri	Coleus	Freesia	Japanese yew
Aster	Cordyline	Fuchsia	Juniper
Atlas cedar	Corylus avellana	Gardenia	Kalanchoe
Azalea	Cotoneaster	Geranium	Lantana
Bald cypress	Cottonwood	Gerbera	Larch
Balsam fir	Crabapple	Gerber daisy	Larkspur
Bamboo	Crepe myrtle	Gladiolus	Laurel
Barberry	Crossandra	Gloxinia	Leasianthus
Beech	Croton	Grape	Leatherleaf fern
Begonia	Cyclamen	Gynura	Linden
Birch	Cypress	Gypsophila	Lilac
Boston fern	Daffodil	Hackberry	Lily
Bougainvillea	Dahlia	Hawthorn	Lithodora
Boxwood	Daisy	Hedera	Lobelia
Bridal veil	Delphinium	Hemlock	Loquat
Cacti	Deodar cedar	Hibiscus	Magnolia
Caladium	Dichondra	Hickory	Mandevilla
Calceolaria	Dieffenbachia	Holly	Maple
Calendula	Dogwood	Honeysuckle	Marigold
Calla lily	Douglas fir	Hop bush	Mediterranean fan palm
Camella	Dracaena	Horse chestnut	Mesembryanthemum
Camellias	Dumb cane	Hyacinth	Mimosa
Carissa	Dusty Miller	Hydrangea	
Carnation	Elm	Iceplant	
Ceanothus	Eucalyptus	Imitari	
	Ferns	Impatiens	

Monster	Petunia	Rhododendron	Sycamore
Mother-in-law	Philodendron	Rose	Syngonium
plant	Phlox	Rubber plant	Taxus
Mountain laurel	Photinia	Salvia	Texas sage
Myrtle	Piggyback plant	Scabiosa	Tulip
Nandina	Pine	Schefflera	Tulip tree
Narcissus	Pink	Schlumbergera	Verbena
Oak	Pittosporum	Sedum	Viburnum
Oleander	Planetree	Shrub verbena	Vinca
Olive	Podocarpus	Shrubby cinquefoil	Virginia creeper
Orchid	Poinsettia	Smoke tree	Walnut
Ornamental kale	Poplar	Snapdragon	Wandering Jew
Pachysandra	Pothos ivy	Spathiphyllum	Willow
Palms	Prayer plant	Spruce	Yew
Pansy	Primrose	Stock	Yucca
Parasol pine	Privet	Sweet gum	Zinnia
Pelargonium	Pteris fern	Sweet pea	
Peony	Pyracantha	Sweet William	

**FORESTRY, INCLUDING**

Trees and conifers      Tree and forest seedlings      Woody ornamentals

**TURF, INCLUDING LAWN AND SOD TURF GRASSES**

Bermuda grass      Fescue      St. Augustine grass      Zoysia grass  
 Blue grass

**MIXING AND APPLICATION**

Apply BotaniGard® 22WP using hand-held, ground spray equipment and/or low-volume application equipment. Fill spray tank with half the desired amount of water and start agitation. Use a measuring cup, spoon, or calibrated container to add BotaniGard® 22WP to the spray tank and mix thoroughly. Add remainder of desired amount of water. Triple rinse empty container and add rinse water to spray tank. For best results, continue agitation during spraying. Do not mix more BotaniGard® 22WP than can be sprayed in one day. One (1) cup contains approximately 4.5 ounces of BotaniGard® 22WP. After mixing in water, spray within one day. Fungal spores in BotaniGard® 22WP will die and lose effectiveness if left overnight or longer in water.

**TO CONTROL LABELED INSECTS ON FOOD AND NONFOOD CROPS, GROWN IN GREENHOUSES AND, SHADEHOUSES, INDOOR/OUTDOOR NURSERY PLANTS, LANDSCAPES (INCLUDING TURF, SOD, AND ORNAMENTAL PLANTS), AND INTERIORSAPES**

**Typical Application Rates (Product/100 Gallons of Spray Volume)**

Whitefly and Aphids ..... ½ – 1 lb  
 Thrips..... 1 – 2 lb  
 Other labeled insects..... ½ – 2 lb (depending on insect population and foliage density)

**Low Volume Application:** Apply at a rate equivalent to area coverage of high volume spray. This would normally be ½ – 2 lb of BotaniGard® 22WP for 5,000 to 20,000 square feet. Follow spray equipment manufacturer’s instructions for final spray volume to obtain adequate coverage.

**DO NOT APPLY THROUGH A THERMAL PULSE FOGGER.**

{ } Symbolizes explanatory text to the reviewer  
 [ ] Indicates optional text

### **Cuttings Dip**

Applications of BotaniGard® 22WP can be used as pre-plant dips for cuttings as noted below. To prepare dip solution, thoroughly mix ¼ – ½ oz. BotaniGard® 22WP per gallon of water (2½ – 5 oz. per 10 gallons water). Prepare only as much dip solution as can be used in one day. Do not use dip solution for more than one day. Spores in water for more than 24 hours will die. Dip a small number of plants in dip solution and observe for plant damage before using dip treatment. Do not use dips if there is any visible damage to test plants.

### **Unrooted Cuttings**

Dip the unrooted cuttings in the BotaniGard® 22WP solution just long enough to wet all surfaces, then removing to a flat area and allow cuttings to dry. For water-sensitive varieties, cover to protect until dry. 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.

## **TO CONTROL LABELED INSECTS ON FOOD CROPS GROWN OUTDOORS (EXCEPT CORN), RANGELAND, IMPROVED PASTURES, AND FORESTRY**

### **Ground Application**

Apply ¼ to 1 lb BotaniGard® 22WP/acre. Apply in sufficient water to thoroughly cover foliage infested with insects, typically 5 to 100 gallons of water per acre. Final spray volume may be up to 400 gallons per acre. Water volume depends on spray equipment, crop canopy and target pest.  
**SPRAY TO WET, BUT AVOID RUNOFF.**

Apply BotaniGard® 22WP up to a maximum of 3 lb per acre for extreme insect pressure or dense foliage.

### **Aerial Application**

Apply ¼ – 1 lb BotaniGard® 22WP/acre. Apply in sufficient water to thoroughly cover foliage infested with insects. For best results, apply in 5 – 10 gallons water per acre. Do not apply in less than 2 gallons water per acre.

### **Leaf-Feeding Lepidoptera**

For use against diamondback moth, imported cabbage worm and cabbage looper; BotaniGard® 22WP can be used alone or in a tank mix with *Bacillus thuringiensis* (vars. *kurstaki*, *aizawai*) to control these insects in accordance with the more restrictive of label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. The tank mix provides control of later instars (3<sup>rd</sup> to 4<sup>th</sup>) and aids in the management of resistant populations. For additional information, contact LAM International Corporation.

### **Typical Application Rates (Product/Acre)**

Diamondback moth .....	½ – 1 lb
Imported cabbage worm .....	½ – 1 lb
Cabbage looper .....	1 lb

### **Leaf-Feeding Beetles**

For use against Colorado potato beetle; BotaniGard® 22WP can be used alone or in a tank mix with *Bacillus thuringiensis* (vars. *tenebrionis*) to control Colorado potato beetle in accordance with the more restrictive of label limitations and precautions. Do not exceed label dosage rates. This

product cannot be mixed with any product containing a label prohibition against such mixing. The tank mix provides control and aids in the management of resistant populations. For additional information, contact LAM International Corporation.

**Typical Application Rates (Product/Acre)**

Colorado potato beetle ..... ½ – 1 lb

**TO TREAT SOIL-DWELLING INSECTS ON TURF, ORCHARDS, AND CONTAINER ORNAMENTALS**

For most soil applications, apply 1 – 4 ounces (up to ¼ lb) of BotaniGard® 22WP per 1,000 square feet. For difficult to control soil pests, especially citrus root weevil (*Diaprepes abbreviatus*), BotaniGard® 22WP can be applied at 4 oz per 1,000 square feet.

Do not apply to water-saturated soil. Apply BotaniGard® 22WP in enough water to ensure good coverage of treated area, at least one gallon of water per 1,000 square feet. Irrigate treated area after application to disperse BotaniGard® 22WP into soil.

**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.

**PHYTOTOXICITY**

BotaniGard® 22WP has shown plant safety but has not been tested on all plant varieties or in all tank mixes. Use caution when making applications to open blooms, especially on varieties known to be sensitive. BotaniGard® 22WP is non-phytotoxic to melons, tomatoes, cole crops, and a wide variety of ornamentals at specified label dosage rates.

For best results, foliage should be dry at time of spraying. Test BotaniGard® 22WP on a small number of plants to check for potential damage before applying to larger number of plants.

**TANK MIX COMPATIBILITY**

BotaniGard® 22WP is physically and biologically compatible with a wide range of insecticides and spray adjuvants. It is compatible with some fungicides in tank mixtures. Fungicides may kill the spores. Do not exceed label dosage rates. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

**Adjuvants:** BotaniGard® 22WP is designed for application without additional wetting agents and spreaders. If adjuvants are needed for some other reason, contact your dealer or LAM International Corporation for specific instructions. Some wetting agents and spreaders kill the spores, the active ingredient in BotaniGard® 22WP, or contribute to poor mixing and spray problems. In all cases, pesticides must be used in accordance with their labels.

**Compatibility With Chemical Insecticides:** BotaniGard® 22WP is compatible with most chemical insecticides. However, some insecticide formulations can kill the fungal spores, the active ingredient in BotaniGard® 22WP. If you are going to use BotaniGard® 22WP in combination with other pesticides, contact your dealer or LAM International Corporation for specific information. In all cases, pesticides must be used in accordance with their labels.

**Compatibility With Fungicides:** BotaniGard® 22WP is compatible in tank mix with some fungicides. Contact LAM International or your dealer for specific instructions on using BotaniGard® 22WP with fungicides.

### **CHEMIGATION**

Do not apply this product through any type of irrigation system.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

#### **PESTICIDE STORAGE**

Store in a cool, dry place. Avoid storage below freezing temperatures or above 85°F. BotaniGard® 22WP stability decreases with time at elevated temperatures above 85°F. Tightly reclose the container of unused product. Do not contaminate unused product with water.

#### **PESTICIDE DISPOSAL**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

#### **CONTAINER DISPOSAL**

{For plastic containers}

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

{For foil bags}

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

### **WARRANTY AND DISCLAIMER**

BotaniGard® 22WP conforms to the description set forth on this label and is reasonably fit for the purposes described herein when used according to the label directions and specified conditions. The manufacturer disclaims any and all other express or implied warranties of merchantability and fitness for particular purpose. Buyers and users shall assume all risk and responsibility for potential loss or damage if this product is used, stored, handled or applied in a manner inconsistent with this labeling. To the extent permitted by law, manufacturer shall not be liable for more than the purchase price for the quantity involved including incidental, consequential or special damages.

### Optional Label Text

{The following items may or may not appear on the final printed labeling}

- [Exclusively] distributed by: [name of distributor] [address of distributor] [company logo of distributor] {representative company logos include}



- {Images of crops where product may be used}



- **[Best If Used By:** [insert date up to 1 yr from date of manufacture]]
- {Alternate referral statements that are appropriate for different types of label configurations and/or packaging as outlined on page 1 of this draft label}