



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 11, 2019

Karen Warkentien  
Regulatory Affairs Director  
LAM International Corporation  
117 South Parkmont St.  
Butte, MT 59701

Subject: Pesticide Registration Improvement Act (PRIA) Labeling and Formulation Amendment – Updates to the Label, Revision to the Basic Confidential Statement of Formula (CSF), and Addition of Alternate CSF #1 to the Registration  
Product Name: Botanigard 22WP  
EPA Registration Number: 82074-2  
Application Date: September 27, 2018  
OPP Decision Number: 544836

Dear Ms. Warkentien:

The amended labeling and Confidential Statements of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable. This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

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

Page 2 of 2

EPA Reg. No. 82074-2

OPP Decision No. 544836

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.

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.

Please note that the record for this product currently contains the following acceptable CSFs:

- Basic CSF dated 09/26/2018
- Alternate CSF #1 dated 09/26/2018

Any CSFs other than those listed above are superseded/no longer valid.

If you have any questions, please contact me at (703) 347-0163 or [murasaki.seiichi@epa.gov](mailto:murasaki.seiichi@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'SEIICHI Murasaki', with a stylized flourish at the end.

Seiichi 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}

[For use in controlling:

Whiteflies, Aphids, Thrips, Psyllids, Mealybugs, Leafhoppers, Weevils, Plant Bugs, Borers and Leaf-feeding Insects in Field, Agronomic, Vegetable, Forestry, and Orchard Crops;

Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures, and [Agronomic] Field Crops;

Whiteflies, Aphids, Thrips, Psyllids and Mealybugs in Ornamentals and Vegetables, Indoor/Outdoor Nursery, Greenhouse, Shadehouse, Commercial Landscape, Interiorscape and Turf.]

**Active Ingredient:**

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

**Inert Ingredients:** .....78.0%\*\*

**Total:**.....100.0%

\*Contains a minimum of 1 x 10<sup>13</sup> viable spores per pound of product

\*\*Contains petroleum distillates

### KEEP OUT OF REACH OF CHILDREN CAUTION

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

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

[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



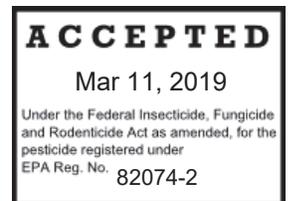
**EPA Reg. No.:** 82074-2

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

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

**Net Weight:** \_\_\_\_\_

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



**Weight:**

{ } 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 dust/mist filtering respirator meeting NIOSH standards of at least R-95 or P-95. 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.

[For use in controlling: Whiteflies, Aphids, Thrips, Psyllids, Mealybugs, Leafhoppers, Weevils, Plant Bugs, Borers and Leaf-feeding Insects in Field, Agronomic, Vegetable, Forestry, and Orchard Crops; Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures, and Agronomic Crops; Whiteflies, Aphids, Thrips, Psyllids, and Mealybugs in Ornamentals and Vegetables, Indoor/Outdoor Nursery, Greenhouse, Shadehouse, Commercial Landscape, Interiorscapes and Turf.] 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.

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.

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
--------------	---------	---------------	-----------------

#### **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
-------------	---------------	---------------

**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
----------	-------------------	-------------

**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*	
Billbugs	Cotton boll weevil	Plum curculio	Sweet potato weevil
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**

**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	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	Wintergreen
Catnip	Fenugreek	(black/white)	Woodruff
Celery seed	Ginseng	Peppermint	Wormwood
Chervil	Horehound	Rosemary	
Chicory	Hyssop	Rue	

### **VEGETABLES**

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

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

**ORNAMENTALS**

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

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

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

**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.

**DOSAGE RATE FOR GREENHOUSE, SHADEHOUSE, INDOOR/OUTDOOR NURSERY, LANDSCAPE AND INTERIORSCAPE**

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

Whitefly and Aphids .....	1/2 – 1 lb
Thrips .....	1 – 2 lb
Other labeled insects.....	1/2 – 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 1/2 – 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.**

### **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.

## **DOSAGE RATE FOR FIELD, AGRONOMIC AND VEGETABLE CROPS (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

**DOSAGE RATE FOR TURF AND SOIL APPLICATIONS IN 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.

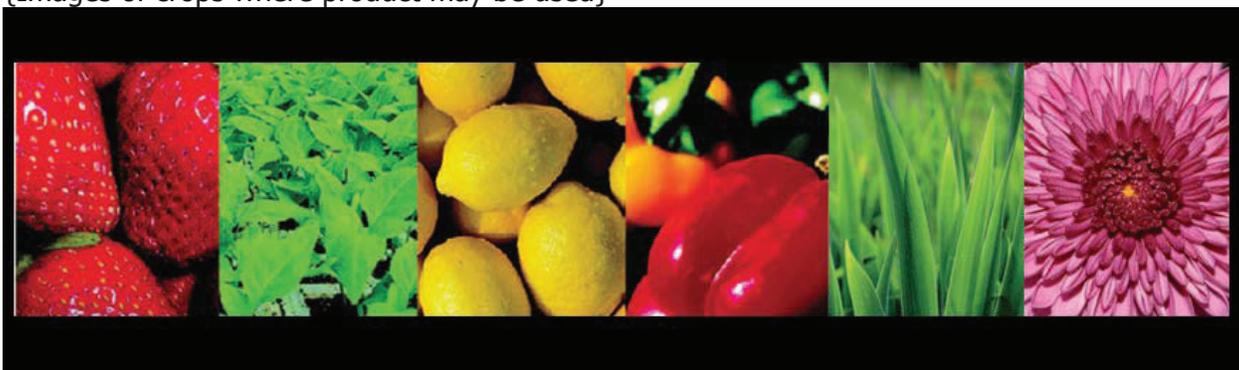
## Optional Label Text

{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}