



### **HOT LINE NUMBER**

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.

### **NOTE TO PHYSICIAN**

Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

### **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 Whitefly, Aphids, Thrips, Psyllids, Mealybugs, Leafhoppers, Weevils, Plant Bugs, and Beetles in Field, Agronomic, Vegetable and Orchard Crops; also in Forestry; Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agronomic Crops; Whitefly, Aphids, Thrips, Psyllids, Weevils and Mealybugs in Ornamentals and Vegetables, Indoor / Outdoor Nursery, Greenhouse, Shadehouse, Commercial Landscape, Interiorscape 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 or 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**

Mycotrol WPO contains live spores of the naturally occurring fungus, *Beauveria bassiana* Strain GHA. Spores are alive and can 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. Mycotrol WPO 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 Mycotrol WPO with a compatible insecticide.

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

### **PRE-HARVEST INTERVAL**

Pre-harvest interval for Mycotrol WPO is zero (0) days. Mycotrol WPO can be applied up to and including the day of harvest.

### **INSECTS FOR WHICH MYCOTROL WPO MAY BE USED**

#### **ORTHOPTERA**

Grasshoppers  
Mole Crickets

Locusts  
Mormon Crickets

#### **WHITEFLY**

Banded-winged Whitefly  
Citrus Whitefly  
Greenhouse Whitefly  
Sweet Potato Whitefly (aka Tobacco Whitefly)

Citrus Blackfly  
Giant Whitefly  
Silverleaf Whitefly

#### **APHIDS**

Bean Aphid  
Cowpea Aphid  
Greenbug  
Melon/Cotton Aphid  
Potato Aphid  
Russian Wheat Aphid

Cabbage Aphid  
Green Peach Aphid  
Hop Aphid  
Pea Aphid  
Rose Aphid  
Spotted Alfalfa Aphid

#### **THRIPS**

Greenhouse Thrips  
Pear Thrips

Cuban Laurel Thrips  
Potato/Onion Thrips

*Thrips palmi*

Western Flower Thrips

**PSYLLIDS**

Pear Psylla

Tomato/Potato Psylla

**MEALYBUGS**

Citrus Mealybug

Grape Mealybug

Buffalo Grass Mealybug

Longtailed Mealybug

**LEAFHOPPERS AND PLANTHOPPERS**

Grape Leafhopper

Planthoppers

Variiegated Grape Leafhopper

Leafhoppers

Potato Leafhopper

Virginia Creeper Leafhopper

**SCARAB BEETLES**

Atenius

White Grubs

Green June Beetle

**PLANT BUGS (HETEROPTERA)**

Chinch Bugs

Lace Bugs

**WEEVILS**

Billbugs

Fuller Rose Weevil

Root Weevil

Black Vine Weevil

Rose Curculio

Strawberry Root Weevil

**CROPS ON WHICH MYCOTROL WPO MAY BE USED**

**VEGETABLES**

acerola

artichoke

atermoya

beans (all varieties)

bokchoy

Brussels sprouts

cantaloupe

casaba melons

cauliflower

celtuce

chickpeas

Chinese cabbage

Chinese mustard

chrysanthemum (edible)

citron melon

crenshaw melon

dandelion

dock

endive

garlic

golden pershaw melon

guar

horseradish

leek

lettuce

mustard greens

onion

parsnip

pepper (all varieties)

arracacha

arugula

balsam pear

beet

broccoli

burdock

carambols

cassava

celeriac

chayote

chicory

Chinese gai lon

Chinese spinach

chufa

collards

cress

dasheen

edamame

escarole

gherkin

gourds (edible)

honey balls

kale

lentils

mango melon

New Zealand spinach

orach

peas (all varieties)

Persian melon

arrowroot

asparagus

bamboo shoots

blackeyed peas

broccoli raab

cabbage

carrots

catjang

celery

chervil

Chinese broccoli

Chinese longbeans

Chinese waxgourd

cilantro

corn salad

cucumber

daikon

eggplant

fennel

ginger

groundcherry

honeydew melon

kohlrabi

leren

muskmelon hybrids/varieties

okra

parsley

pepinos

pimento (all varieties)

pineapple melon  
purslane  
rambutan  
rhubarb  
shallot  
spinach  
sweet potato  
tomatillo  
turnip  
zucchini

potato  
radish  
rape greens  
rutabaga  
snake melon  
squash (summer/winter)  
Swiss chard  
tomatoes  
watermelon

pumpkin  
radicchio  
rapini  
salsify  
soybeans  
sugar beet  
tanier  
tumeric  
yam

### **FRUITS AND BERRIES**

apple  
bananas  
boysenberry  
cherimoya  
citrus citron  
crabapple  
dates  
elderberry  
gooseberry  
guava  
kumquat  
loganberry  
mandarin  
nectarine  
orange  
passion fruit  
persimmon  
pomegranate  
quihuna  
sour cherry  
tangelo

apricot  
blackberry  
calamondin  
cherry (sweet/sour)  
citrus hybrids  
cranberry  
dewberry  
fejoa  
grape (table, raisin, wine)  
huckleberry  
lemon  
loquat  
mango  
olallie berry  
oriental pear  
peach  
pineapple  
prune  
quince  
strawberry  
tangerine

avocado  
blueberry  
carob  
chironja  
coffee  
currant  
durian  
figs  
grapefruit  
kiwi  
limes  
lychee  
marionberry  
olives (all varieties)  
papaya  
pear  
plum  
pummelo  
raspberry  
sweet cherry  
youngberry

### **HERBS AND SPICES**

allspice  
basil  
chamomile  
cardamom  
chervil  
cilantro/coriander  
coriander  
curry leaf  
fenugreek  
hyssop  
mint  
nutmeg  
pennyroyal  
rosemary  
saffron  
spearmint  
tarragon  
woodruff

anise  
borage  
caperbuds  
catnip  
chicory  
cinnamon  
costmary  
dill  
ginseng  
mace  
mustard  
oregano  
pepper (black/white)  
rue  
savory  
sweet bay leaf  
thyme  
wormwood

balm  
burnet  
caraway  
celery seed  
chives  
clary  
cumin  
fennel  
horehound  
marjoram  
nasturtium  
paprika  
peppermint  
sage  
sesame  
tansy  
wintergreen

### **ORNAMENTALS, INCLUDING FLOWERS, FLOWERING AND FOLIAGE PLANTS, BEDDING PLANTS, GROUNDCOVERS, SHRUBS, VINES, EVERGREENS AND TREES**

African lily

African violet

ageratum

alyssum  
ash  
atlas cedar  
balsam fir  
beech  
Boston fern  
bridal veil  
calceolaria  
camella  
carnation  
chenille plant  
chrysanthemum  
coleus  
cotoneaster  
crepe myrtle  
cyclamen  
dahlia  
deodar cedar  
dogwood  
dumb cane  
eucalyptus  
fig  
floss flower  
freesia  
geranium  
gladiolus  
gynura  
hawthorn  
hibiscus  
honey suckle  
hyacinth  
imitari  
iris  
Japanese barberry  
Japanese yew  
lantana  
laurel  
linden  
lithodora  
magnolia  
marigold  
mimosa  
mountain laurel  
narcissus  
olive  
pachysandra  
parasol pine  
petunia  
photina  
pink  
podocarpus  
pothos ivy  
privet  
rhododendron  
salvia  
schlumbegera  
shrubby cinquefoil  
spathiphyllum  
sweet gum

anthurium  
asparagus sprengeri  
azalea  
bamboo  
begonia  
bougainvillea  
cacti  
calendula  
camellias  
ceanothus  
cherro  
cineraria  
cordyline  
cottonwood  
crossandra  
cypress  
daisy  
dichondra  
Douglas fir  
Dusty Miller  
ferns  
firethorn  
foliage plants  
fuchsia  
gerbera  
gloxinia  
gypsophila  
hedera  
hickory  
hop bush  
hydrangea  
impatiens  
ivy  
Japanese boxwood  
juniper  
larch  
leasianthus  
lilac  
lobelia  
mandevilla  
Mediterranean fan palm  
monstera  
myrtle  
oak  
orchid  
palms  
pelargonium  
philodendron  
piggyback plant  
pittosporum  
poinsettia  
prayer plant  
pteris fern  
rose  
scabiosa  
sedum  
smoke tree  
spruce  
sweet pea

arborvitae  
aster  
bald cypress  
barberry  
birch  
boxwood  
caladium  
calla lily  
carissa  
celosia  
Christmas cactus  
clevera  
corylus avellana  
crabapple  
croton  
daffodil  
delphinium  
dieffenbachia  
dracaena  
elm  
figus  
fittonia  
forsythia  
gardenia  
gerber daisy  
grape  
hackberry  
hemlock  
holly  
horsechesnut  
iceplant  
India hawthorn  
Japanese aucuba  
Japanese spindle tree  
kalanchoe  
larkspur  
leatherleaf fern  
lily  
loquat  
maple  
mesembryanthemum  
mother-in-law plant  
nandina  
oleander  
ornamental kale  
pansy  
peony  
phlox  
pine  
planetree  
poplar  
primrose  
pyracantha  
rubber plant  
schefflera  
shrub verbena  
snapdragon  
stock  
sweet William

sycamore  
Texas sage  
verbena  
Virginia creeper  
willow  
zinnia

syngonium  
tulip  
viburnum  
walnut  
yew

taxus  
tulip tree  
vinca  
wandering Jew  
yucca

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

|                     |              |        |
|---------------------|--------------|--------|
| Bermuda grass       | blue grass   | fescue |
| St. Augustine grass | zoysia grass |        |

### **MIXING AND APPLICATION**

Apply Mycotrol WPO using hand-held, ground spray equipment and/or low-volume application equipment. Fill spray tank with half the desired amount of water, start agitation. Use a measuring cup, spoon or calibrated container to add Mycotrol WPO 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 application. Do not mix more Mycotrol WPO than can be sprayed in one day. One (1) cup contains approximately 4.5 ounces of Mycotrol WPO. After mixing in water, spray within one day. Fungal spores in Mycotrol WPO will die and lose effectiveness if left overnight or longer in water.

### **DOSAGE RATE FOR GREENHOUSE, NURSERY, LANDSCAPE AND INTERIORSCAPE**

#### **Typical Application Rates/100 Gallons of Spray Volume**

|                            |  |
|----------------------------|--|
| Whitefly and Aphids.....   | ½ to 1 pound of Mycotrol WPO/100 gallons spray volume  |
| Thrips .....               | 1 to 2 pounds of Mycotrol WPO/100 gallons spray volume |
| Other labeled insects..... | ½ to 2 pounds of Mycotrol WPO/100 gallons spray volume |

Rate depends on insect population.

Apply Mycotrol WPO up to a maximum of 3 pounds per 100 gallons spray volume for high insect populations or dense foliage.

Use quantity of spray sufficient to thoroughly cover foliage infested with insects. Crop size, spray equipment and local practice will determine the volume of water needed. One hundred gallons of spray volume will typically cover 5,000-20,000 square feet. **SPRAY TO WET, BUT AVOID RUNOFF.**

#### **Low Volume Application**

Apply at a rate equivalent to area coverage of high volume spray. This would normally be ½ pound to 2 pounds of Mycotrol WPO 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 Mycotrol WPO may be used as pre-plant dips for cuttings as noted below. To prepare dip solution, thoroughly mix ¼ - ½ oz. Mycotrol WPO per gallon of water (2 ½ -5 oz. Mycotrol WPO 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 Mycotrol WPO solution just long enough to wet all surfaces, then removing to a flat area. 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 Mycotrol WPO 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 TURF AND SOIL APPLICATIONS IN CONTAINER ORNAMENTALS**

For most soil applications, apply 1-4 oz. (up to ¼ lb.) Mycotrol WPO per 1,000 square feet. For difficult to control soil pests, especially citrus root weevil (*Diaprepes abbreviatus*), Mycotrol WPO can be applied at 4 oz. per 1,000 square feet.

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

### **APPLICATION FREQUENCY**

Apply Mycotrol WPO 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 Mycotrol WPO which can be applied in one season.

### **PHYTOTOXICITY**

Mycotrol WPO has shown plant safety but has not been tested on all plant varieties or in all available tank mixes. Use caution when making applications to open blooms, especially on varieties known to be sensitive. Mycotrol WPO 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 Mycotrol WPO on a small number of plants to check for potential damage before applying to larger number of plants

### **TANK MIX COMPATIBILITY**

Mycotrol WPO 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. No label dosage should be exceeded. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

**Adjuvants** Mycotrol WPO 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 Mycotrol WPO, or contribute to poor mixing and spray problems. In all cases, pesticides must be used in accordance with their labels.

**Compatibility With Chemical Insecticides** Mycotrol WPO is compatible with most chemical insecticides. However, some insecticide formulations can kill the fungal spores, the active ingredient in Mycotrol WPO. If you are going to use Mycotrol WPO 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** Mycotrol WPO is compatible in tank mix with some fungicides. Contact LAM International or your dealer for specific instructions on using Mycotrol WPO 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. Mycotrol WPO 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. 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 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 sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

**WARRANTY AND DISCLAIMER**

Mycotrol WPO 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.