

82074-3

1/27/2011

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

JAN 27 2011

CERTIFIED MAIL

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Lori J. Walsh
Laverlam International Corp.
117 South Parkmont
Butte, MT 59701

Subject: Fast Track Label Amendment to Add Advisory Statement
EPA Reg. Nos.: 82074-1, Mycotrol ES 82074-2, Botanigard 22 WP, and
82074-3, Mycotrol O
Decision Nos: 441138, 441137, and 441136

Dear: Ms. Walsh,

The Agency has reviewed your request to amend the subject product registrations, which included the following changes to the product label:

1. Addition of the statement "use caution when making applications to open blooms, especially on varieties known to be sensitive" under the Phytotoxicity heading.

The amendment referred to that were submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of the final printed labeling prior to releasing the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA § 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. If you have any questions, contact Susanne Cerrelli at 703-308-8077

CONCURRENCES							
SYMBOL	▶ 7511P	7511P					
SURNAME	▶ Scirelli	Ruby					
DATE	▶ 1/26/11	1/27/11					

or by email at cerrelli.susanne@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,



Sheryl K. Reilly, Ph.D.

Chief

Biopesticides and Pollution Prevention Division
Microbial Pesticides Branch (7511P)

Enclosures

(Front Panel)

MYCOTROL® O

Emulsifiable Suspension Mycoinsecticide
(Alternate Brand Name: OrganiGard)

For use in controlling Whitefly, Aphids, Thrips, Psyllids, Mealybugs, Leafhoppers, Weevils, Plant Bugs, Borers and Leaf-feeding Insects in Field, Agronomic, Vegetable and Orchard Crops; Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agronomic Crops; Whitefly, Aphids, Thrips, Psyllids and Mealybugs in Vegetables and Ornamentals grown in Indoor/Outdoor Nursery, Greenhouse, and Shadehouse.

Active Ingredient: <i>Beauveria bassiana</i> Strain GHA.....	10.9%*
Inert Ingredients:	89.1%
Total:	100.0%

*Based on the weight estimate of 4.78×10^{-12} grams per spore.
Mycotrol O contains 2×10^{13} viable spores per quart.

KEEP OUT OF REACH OF CHILDREN CAUTION

Store between
40°F and 85°F

SHAKE WELL

See additional precautionary statements and first aid statements in attached booklet.

LAVERLAM INTERNATIONAL CORPORATION

117 S. Parkmont; PO Box 4109 – Butte, MT 59702; Ph: (406)782-2386; Fax: (406)782-9912
EPA Registration Number 82074-3 EPA Establishment Number 65626-MT-02

Edition:
Net Contents:
Lot No.:
Expiration Date:



ACCEPTED

JAN 27 2011

(Booklet)

MYCOTROL® O

Emulsifiable Suspension Mycoinsecticide
(Alternate Brand Name: OrganiGard)

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No.

82074-3

For use in controlling Whitefly, Aphids, Thrips, Psyllids, and Mealybugs, Leafhoppers, Weevils, Plant Bugs, Borers and Leaf-feeding Insects in Field, Agronomic, Vegetable and Orchard Crops; Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agronomic Crops; Whitefly, Aphids, Thrips, Psyllids and Mealybugs in Vegetables and Ornamentals grown in Indoor/Outdoor Nursery, Greenhouse, and Shadehouse.

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Net Contents:
Lot No.:
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Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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 eyes, skin 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.

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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. • Call poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
<p align="center">HOT LINE NUMBER</p> <p>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.</p>	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, 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
<p>Users should:</p> <ul style="list-style-type: none"> • 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.

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, Borers and Leaf-feeding Insects in Field, Agronomic, Vegetable and Orchard Crops; Grasshoppers, Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agronomic Crops; Whitefly, Aphids, Thrips, Psyllids and Mealybugs in Vegetables and Ornamentals grown in Indoor/Outdoor Nursery, Greenhouse and Shadehouse. May be applied aerially. 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 only apply 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
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses 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 O 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. Mycotrol O 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 O with other control methods.

PRE-HARVEST INTERVAL

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

INSECTS FOR WHICH MYCOTROL O MAY BE USED

ORTHOPTERA

Grasshoppers
Mormon Crickets

Locusts
Mole 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
Thrips palmi

Cuban Laurel Thrips
Potato/Onion Thrips
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
Variegated Grape Leafhopper

Leafhoppers
Potato Leafhopper
Virginia Creeper Leafhopper

STEM-BORING LEPIDOPTERA

Cranberry Girdler
Lesser Cornstalk Borer
Southwestern Corn Borer

European Corn Borer
Rice Stem Borer
Sugar Cane Borer

FOLIAGE-FEEDING LEPIDOPTERA

Cabbage Looper
Imported Cabbage Worm

Diamondback Moth

LEAF-FEEDING BEETLES

Bean Leaf Beetle
Colorado Potato Beetle
Cucumber Beetles
Flea Beetles

Cereal Leaf Beetle
Corn Rootworm
Elm Leaf Beetle

SCARAB BEETLES

Atenius
White Grubs

Green June Beetle

PLANT BUGS (HETEROPTERA)

Chinch Bugs

Fleahoppers

Lace Bugs
Seed Bugs
Tarnished Plant Bug

Lygus Bug
Stink Bugs

WEEVILS

Alfalfa Weevil
Billbugs
Citrus Root Weevil
Fuller Rose Weevil
Pepper Weevil
Root Weevil
Strawberry Root Weevil
Vegetable Weevil

Apple Curculio
Black Vine Weevil
Cotton Boll Weevil
Pecan Weevil
Plum Curculio
Rose Curculio
Sweet Potato Weevil

CROPS ON WHICH MYCOTROL O MAY BE USED

VEGETABLES

acerola
artichoke
atermoya
bamboo shoots
blackeyed peas
broccoli raab
cabbage
carrots
catjang
celery
chervil
Chinese broccoli
Chinese longbeans
Chinese waxgourd
citron melon
crenshaw melon
dasheen
edamame
escarole
gherkin
gourds (edible)
honey balls
kale
lentils
mango melon
New Zealand spinach
orach
Oriental gai lon
Oriental spinach
parsnip
pepper (all varieties)
pineapple melon
purslane
rambutan
rhubarb
shallot
spinach
sweet potato
tomatillo
turnip
zucchini

arracacha
arugula
avocado
beans (all varieties)
bokchoy
Brussels sprouts
cantaloupe
casaba melons
cauliflower
celtuce
chickpeas
Chinese cabbage
Chinese mustard
chufa
collards
cress
daikon
eggplant
fennel
ginger
groundcherry
honeydew melon
kohlrabi
leren
muskmelon hybrids/varieties
okra
Oriental broccoli
Oriental longbeans
Oriental waxgourd
peas (all varieties)
Persian melon
potato
radish
rape greens
rutabaga
snake melon
squash (summer/winter)
Swiss chard
tomatoes
watermelon

arrowroot
asparagus
balsam pear
beet
broccoli
burdock
carambols
cassava
celeriac
chayote
chicory
Chinese gai lon
Chinese spinach
cilantro
corn salad
cucumber
dock
endive
garlic
golden pershaw melon
guar
horseradish
leek
lettuce
mustard greens
onion
Oriental cabbage
Oriental mustard
parsley
pepinos
pimento (all varieties)
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

TREE NUTS

almonds
butternut
chinquapin
macadamia nut
walnut

beech nut
cashew
filbert
pecan

Brazil nut
chestnut
hickory nut
pistachios

AGRONOMIC CROPS

alfalfa
clover
cotton
hay
jojoba
oil seed rape (canola)
rice
sorghum
sugarcane
sweet potato
tobacco
wild rice

barley
coffee
flax
hops
millet
peanuts
rye
soybeans
sunflower
tea
triticale

buckwheat
corn (field, sweet, pop, silage
seed, corn grown for
meal/flour)
oats
potato
safflower
sugarbeets
sweet corn
teosinte
wheat

HERBS, SPICES AND EDIBLE FLOWERS

allspice
basil
caperbuds
carnations
chamomile
chives
cinnamon
costmary
dandelion
fenugreek
horehound
marigolds
mustard
oregano

anise
borage
caraway
catnip
chervil
chrysanthemum
clary
cumin
dill
ginseng
hyssop
marjoram
nasturtium
pansies

balm
burnet
cardamom
celery seed
chicory
cilantro/coriander
coriander
curry leaf
fennel
gladiolus
mace
mint
nutmeg
paprika

pennyroyal
rosemary
sage
sesame
tansy
violets
wormwood

pepper (black/white)
roses
saffron
spearmint
tarragon
wintergreen

peppermint
rue
savory
sweet bay leaf
thyme
woodruff

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

African lily
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

African violet
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

ageratum
arborvitae
aster
bald cypress
barberry
birch
boxwood
caladium
calla lily
carissa
celosia
Christmas cactus
clevera
corylus avellana
crabapple
croton
daffodil
delphinium
dieffenbachia
dracaena
elm
ficus
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

petunia
 photina
 pink
 podocarpus
 pothos ivy
 privet
 rhododendron
 salvia
 schlumbegera
 shrubby cinquefoil
 spathiphyllum
 sweet gum
 sycamore
 Texas sage
 verbena
 Virginia creeper
 willow
 zinnia

philodendron
 piggyback plant
 pittosporum
 poinsettia
 prayer plant
 pteris fern
 rose
 scabiosa
 sedum
 smoke tree
 spruce
 sweet pea
 syngonium
 tulip
 viburnum
 walnut
 yew

phlox
 pine
 planetree
 poplar
 primrose
 pyracantha
 rubber plant
 schefflera
 shrub verbena
 snapdragon
 stock
 sweet William
 taxus
 tulip tree
 vinca
 wandering Jew
 yucca

MIXING AND APPLICATION

SHAKE WELL BEFORE USING. Apply Mycotrol O using hand-held, ground and/or aerial spray equipment, low-volume application equipment and chemigation (**follow specific directions for chemigation in this booklet**). Mycotrol O contains emulsifiers and mixes readily in water. Mix well by in-tank mixing, or pump circulation to form an emulsion. To mix, fill spray tank with half the desired amount of water and start agitation. Shake Mycotrol O to suspend spores then with agitator running, slowly add desired quantity of Mycotrol O to spray tank. Add remainder of desired amount of water. Continue agitation throughout loading and spraying. Triple rinse empty Mycotrol O container with water and add rinse water to spray tank. For best results, continue agitation during spraying. Do not mix more Mycotrol O than needed for that day. Do not mix Mycotrol O the day before application. Performance may suffer if spores are left overnight or longer in the spray tank.

Contact your dealer or Laverlam International Corporation for instructions about specific crops, insects and spray equipment.

**DOSAGE RATE FOR FIELD, AGRONOMIC AND VEGETABLE CROPS;
 RANGELAND AND IMPROVED PASTURES**

Ground Application

Typically apply ¼ quart to 1 quart Mycotrol O/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 Mycotrol O up to a maximum of 3 quarts per acre for extreme insect pressure or dense foliage.

Aerial Application

Apply ¼ quart to 1 quart Mycotrol O per 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; Mycotrol O 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 (3rd to 4th) and aids in the management of resistant populations. For additional information, contact Laverlam International Corporation.

Typical Application Rates/Acre

Diamondback moth½ quart to 1 quart of Mycotrol O/acre
Imported cabbage worm½ quart to 1 quart of Mycotrol O/acre
Cabbage looper1 quart of Mycotrol O/acre

Leaf-Feeding Beetles

For use against Colorado potato beetle; Mycotrol O 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 improves control and aids in the management of resistant populations. For additional information, contact Laverlam International Corporation.

Typical Application Rates/Acre

Colorado potato beetle.....½ quart to 1 quart of Mycotrol O/acre

DOSAGE RATE FOR GREENHOUSE, SHADEHOUSE, INDOOR/OUTDOOR NURSERY

High volume sprays: Apply at a rate of up to 2 quarts of Mycotrol O per 100 gallons of spray volume in high volume sprays (2 tsp. or 0.33 fluid ounces of Mycotrol O per gallon of spray volume). Mix well by external mixing, in-tank mixing, or pump circulation to form emulsion. **SPRAY TO WET, BUT AVOID RUNOFF.**

Typical Application Rates/100 Gallons of Spray Volume

Whitefly, Mealybugs, Aphids.....½ quart to 1 quart of Mycotrol O/100 gallons spray volume
Thrips1 quart of Mycotrol O/100 gallons spray volume
Other labeled insects.....½ quart to 2 quarts of Mycotrol O/100 gallons spray volume
depending on insect population and foliage density.

Low volume sprays: Apply at a rate equivalent to area coverage of high volume spray. This would normally be ½ quart to 2 quarts of Mycotrol O 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.**

Contact your dealer or Laverlam International Corporation for specific instructions.

DOSAGE RATE FOR SOIL APPLICATIONS IN ORCHARDS AND CONTAINER ORNAMENTALS

For most soil applications, apply 2-8 fluid ounces of Mycotrol O per 1,000 square feet. For difficult to control soil pests, especially citrus root weevil (*Diaprepes abbreviatus*), apply Mycotrol O at the upper rate (8 fl. oz. of Mycotrol O per 1,000 square feet).

Do not apply to water-saturated soil. Apply Mycotrol O 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 Mycotrol O into soil.

APPLICATION FREQUENCY

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

PHYTOTOXICITY

Mycotrol O 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. Test Mycotrol O on a small number of plants to check for potential damage before applying to larger number of plants.

TANK MIX COMPATIBILITY

Mycotrol O 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 O is designed for application without additional wetting agents and spreaders. If adjuvants are needed for some other reason, contact your dealer or Laverlam International Corporation for specific instructions. Some wetting agents and spreaders kill the spores, the active ingredient in Mycotrol O, or contribute to poor mixing and spray problems.

Compatibility with Chemical Insecticides Mycotrol O is compatible with most organic insecticides. However, some insecticide formulations can kill the fungal spores, the active ingredient in Mycotrol O. If you are going to use Mycotrol O in combination with other pesticides, contact your dealer or Laverlam International Corporation for specific information. In all cases, pesticides must be used in accordance with their labels.

Compatibility with Fungicides Mycotrol O is compatible in tank mix with some fungicides. Contact Laverlam International or your dealer for specific instructions on using Mycotrol O with fungicides.

CHEMIGATION

Apply Mycotrol O only through the following types of chemigation systems: overhead sprinkler systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; or drip (trickle and microjet) systems. Do not apply this product through any other type of irrigation system. **Do not use in systems having smaller than 40-mesh screens.**

Apply Mycotrol O undiluted (neat) or diluted for injection flow rate and irrigation volume. For best results, use one part water to one part Mycotrol O. If Mycotrol O is diluted, supply tank must be agitated to thoroughly mix Mycotrol O in water. Add water to supply tank, start agitation, and then add Mycotrol O. Continue supply tank agitation during chemigation cycle to maintain uniform emulsion. Supply tank agitation is not necessary if Mycotrol O is used without dilution. Shake well to suspend spores before adding Mycotrol O to supply tank. Use contents of supply tank within one day.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation

Use ½ quart to 1 quart of Mycotrol O per acre for most sprinkler chemigation applications. Apply up to 3 quarts of Mycotrol O per acre for high insect pressure or dense foliage. For corn, apply at a rate of 4 fluid ounces of Mycotrol O per acre.

For best results, time Mycotrol O chemigation with the end of the irrigation water application. Time injection duration to apply Mycotrol O in the minimum irrigation volume necessary to achieve uniform coverage immediately prior to shutting off irrigation water. Excessive irrigation during and after chemigation will wash active ingredient (spores) off foliage, reducing effectiveness.

With center pivot or other continuous move equipment, apply Mycotrol O in ¼ to ½ inches of water per acre.

With stationary sets, wheel lines, solid sets or hand move sprinklers, apply Mycotrol O during the last 20-30 minutes of the set.

Supply tank agitation is necessary if Mycotrol O is diluted in water before injection into irrigation system. Tank agitation is not necessary if Mycotrol O is used without dilution provided the product is shaken well to resuspend spores before adding the tank and those contents of tank are used the same day.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contaminated from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline just also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Drip (Trickle) and Microjet Chemigation

Use ½ quart to 3 quarts of Mycotrol O per acre for most drip or microjet chemigation. For difficult to control soil pests, especially citrus root weevil (*Diaprepes abbreviatus*), Mycotrol O may need to be applied at up to 8 fluid ounces per 1,000 square feet.

Apply Mycotrol O continuously for the duration of irrigation water application to achieve uniform distribution and penetration of active ingredient (spores) in the soil.

Supply tank agitation is necessary if Mycotrol O is diluted in water before injection into irrigation system. Supply tank agitation is not necessary if Mycotrol O is used without dilution provided the product is shaken well to resuspend spores before adding to the supply tank and that contents of supply tank are used the same day.

The system must contain a function check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Chemigation Systems Connected to Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Supply tank agitation is necessary if Mycotrol O is diluted in water before injection into irrigation system. Spray tank agitation is not necessary if Mycotrol O is used without dilution provided the product is resuspended before adding to the other spray tank and that content of spray tank are used the same day.

For best results in foliar applications by sprinkler, time Mycotrol O chemigation with the end of irrigation water application. Time injection duration to apply Mycotrol O in the minimum irrigation volume necessary to achieve uniform coverage immediately prior to shutting off irrigation water. Excessive overhead irrigation during and after chemigation will wash active ingredient (spores) off foliage, reducing effectiveness.

For best results in soil applications by drip trickle, apply Mycotrol O continuously for the duration of irrigation water application. Apply sufficient volume of water to carry Mycotrol O into proximity of the target pests.

SPRAY DRIFT LABELING

The Agency has been working with the Spray Drift Task Force (made up of U.S. pesticide registrants), EPA Regional Offices, and State Lead Agencies for pesticide regulation to develop the best spray drift management practices. The Agency is now requiring the interim measures specified below for all products that can be applied by aircraft. Actions taken to reduce spray drift will help mitigate contamination of surface water, reduce risk to estuarine species, and reduce harm to nontarget crops and plants. The interim Spray Drift Labeling Requirements for aerial application are as follows:

Spray Drift for Aerial Application

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

- Volume- Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure- Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles- Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation- Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type- Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

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 O 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

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.

WARRANTY AND DISCLAIMER

Mycotrol O 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.