Mycotrol® ESO
EMULSIFIABLE SUSPENSION MYCOINSECTICIDE

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; also in Forestry; Grasshoppers; Mormon Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agronomic Crops; Whitefly, 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…………………11.3%**
Inert Ingredients:………………………………………………..88.7%*
**Based on the weight estimate of 4.78x10^-14 grams per spore.
Mycotrol ESO contains 2 x 10^14 viable spores per quart.

KEEP OUT OF THE REACH OF CHILDREN

CAUTION
SHAKE WELL
See additional precautionary statements and first aid statements in attached booklet.

LAM INTERNATIONAL CORPORATION
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EPA Registration Number 82074-1 EPA Establishment Number 6526-02
Edition: Net Contents: Lot No.: Expiration Date:
1 Quart 1 Gallon 2 Gallon

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 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.

FIRST AID

If in eyes • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
• Call poison control center or doctor for treatment advice.

If on skin or clothing • Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15 – 20 minutes.
• Call a poison control center or doctor for treatment advice.

If inhaled • Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
• Call a poison control center or doctor for further treatment advice.

If swallowed • Immediately call a poison control center or doctor.
• Do not induce vomiting unless told to do so by the poison control center or doctor.
• Do not give any liquid to the person.
• Do not give anything by mouth to an unconscious person.

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
• Protective eyewear (goggles, face shield, or shielded safety glasses)
• Chemical-resistant gloves such as nitrile rubber or butyl rubber
• Shoes plus socks

Mixers/leaders 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 use: 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; also in Forestry; Grasshoppers, Monorn Crickets, Locusts and Beetles in Rangeland, Improved Pastures and Agroscopic Crops; Whitefly, Aphids, Thrips, Psyllids and Mealybugs in Ornamenals and Vegetables, Indoor/Outdoor Nursery, Greenhouse, Shadehouse, Commercial Landscape, Interiorscape and Turf. 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 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
- Protective eyewear (goggles, face shield, or shielded safety glasses)

**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 ESO 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 ESO 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 ESO with a contact Insecticide.

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

**PRE-HARVEST INTERVAL**

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

**GENERAL INFORMATION (FOR CORN ONLY)**

Mycotrol ESO contains live spores of fungus, *Beauveria bassiana* Strain GHA. This fungus is a naturally occurring disease organism of corn borers. Spores are alive and may be harmed by storage at high temperature or by contact with water for more than 24 hours. See STORAGE AND DISPOSAL instructions on the container label.

**MODE OF ACTION**

Mycotrol ESO acts by contact. Spores attach to the insect, germinate and penetrate through the insect cuticle. The fungus then grows rapidly within the insect, causing mortality.

*Beauveria bassiana* occurs naturally in close association with corn plants where it infects corn borers. When Mycotrol ESO is applied to corn early in the season, the fungus persists in association with corn plants providing season long reduction in corn borer damage.

**PRE-HARVEST INTERVAL**

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

**INSECTS FOR WHICH MYCOTROL ESO MAY BE USED**

**ORTHOPTERA** Grasshoppers, Locusts, Mole Crickets, Mormon Crickets

**WHITEFLY** Banded-winged Whitefly, Cassava Whitefly*(Not for use in California), Citrus Blackfly, Citrus Whitsfly, Giant Whitsfly, Greenhouse Whitsfly, Silverleaf Whitsfly, Sweet Potato Whitsfly (aka Tobacco Whitsfly)

**APHIDS** Bean Aphid, Cabbage Aphid, Cowpea Aphid, Green Peach Aphid, Greenbug, Hop Aphid, Melon/Cotton Aphid, Pea Aphid, Potato Aphid, Rose Aphid, Russian Wheat Aphid, Spotted Alfalfa Aphid

**THRIPS** Greenhouse Thrrips, Cuban Laurel Thrrips, Pear Thrrips, Potato/Onion Thrrips, Thrrips palmi, Western Flower Thrrips

**PSYLLIDS** Pear Psylla, Tomato/Potato Psylla

**MEALYBUGS** Citrus Cocci*(Not for use in California), Citrus Mealybug, Buffalo Grass Mealybug, Grape Mealybug, Longtailed Mealybug

**LEAFHOPPERS AND PLANTHOPPERS** Grape Leafhopper, Leaffoppers, Plantthoppers, Potato Leafhopper, Rice Delphacid**(Not for use in California), Variegated Grape Leafhopper, Virginia Creeper Leaffopper

**STEM-BORING LEPIDOPTERA** European Corn Borer, Lesser Cornstalk Borer, Rice Stem Borer, Southwestern Corn Borer, Sugar Cane Borer

**FOLIAGE-FEEDING LEPIDOPTERA** Diamondback Moth, Cabbage Looper, Fall Army Worm**(Not for use in California), Imported Cabbage Worm

**LEAF-FEEDING BEETLES** Bean Leaf Beetle, Cereal Leaf Beetle, Colorado Potato Beetle, Corn Rootworm, Cucumber Beetles, Elm Leaf Beetle, Flea Beetles

**SCARAB BEETLES** Atenius, Green June Beetle, White Grubs

**PLANT BUGS (HETEROPTERA)** Chinch Bugs, Fleahoppers, Lace Bugs, Lygus Bug, Seed Bugs, Stink Bugs, Tarnished Plant Bug


**ACARI** Twospotted Spider Mite**(Not for use in California)

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

**VEGETABLES** acerola, arracacha, arrowroot, artichoke, arugula, asparagus, atermoya, balsam pear, bamboo shoots, beans (all varieties), beet, blackeyed peas, bokchoy, broccoli, broccoli raab, Brussels sprouts, burdock, cabbage, cantaloupe, carambols, carrots, casaba melons, cassava, catjang, cauliflower, celeriac, celery, celtuce, chayote, cheri, chickpeas, chicory, Chinese broccoli, Chinese cabbage, Chinese gai lon, Chinese longbeans, Chinese mustard, Chinese spinach, Chinese waxgourd, chrysanthemum (edible), chufa, cilantro, citron melon, collards, corn salad, crenshaw melon, cress, cucumber, dandelion, dasheen, daikon, dock, edamame, eggplant, endive, escarole, fennel, garlic, gherkin, ginger, golden pershaw melon, gourds (edible), groundcherry, guar, honey balls, honeydew melon, horseradish, kale, kohlrabi, leek, lentils, leren, lettuce, mango melon,
muskmelon hybrids/varieties, mustard greens, New Zealand spinach, okra, onion, orach, parsley, pursnip, peas (all varieties), pepinos, pepper (all varieties), Persian melon, pimento (all varieties), pineapple melon, potato, pumpkin, purslane, radish, radicchio, rambutan, rape greens, rapini, rhubarb, rutabaga, salsify, shallot, snake melon, soybeans, spinach, squash (summer/winter), sugar beet, sweet potato, Swiss chard, tanier, tomatillo, tomatoes, tumeric, turnip, watermelon, yam, zucchini

FRUITS AND BERRIES apple, apricot, avocado, bananas, blackberry, blueberry, boysenberry, calaminon, carob, cherimoya, cherry (sweet/sour), chironia, citrus citron, citrus hybrids, coffee, crabapple, cranberry, currant, dates, dewberry, durian, elderberry, feijoa, figs, gooseberry, grape (table, raisin, wine), grapefruit, guava, huckleberry, kiwi, kiwimag, lemon, limes,loganberry, loquat, lychee, mandarin, mango, marionberry, nectarine, calli dill, olalie berry, olives (all varieties), orange, oriental pear, papaya, passion fruit, peach, pear, persimmon, pineapple, plum, pomegranate, prune, pummelo, quihina, quince, raspberry, sour cherry, strawberry, sweet cherry, tangelo, tangerine, youngberry

AGRONOMIC CROPS alfalfa, barley, buckwheat, clover, coffee, corn (field, sweet, pop, silage, seed, corn grown for meal/four), cotton, flax, hay, hops, jojoba, millet, oats, oil seed rape (canola), peanuts, potato, rice, rye, safflower, sorghum, soybeans, sugarbeets, sugarcane, sunflower, sweet corn, sweet potato, tea, teasone, triticale, wheat, wild rice

FOREST, INCLUDING Trees and conifers, tree and forest seedlings and woody ornamentals

HERBS AND SPICES allspice, anise, balm, basil, borage, burnet, chamomile, caper buds, caraway, cardamom, catnip, celery seed, chervil, chicory, chives, cilantro/coriander, cinnamon, clary, coriander, costmary, cumin, curry leaf, dill, fennel, fenugreek, ginseng, horehound, hyssop, mace, marjoram, mint, mustard, nutmeg, oregano, paprika, pennyroyal, pepper (black/white), peppermint, rosemary, rue, sage, saffron, savory, sesame, sparrmint, sweet bay leaf, tansy, tarragon, thyme, wintergreen, woodruff, wormwood

ORNAMENTALS, INCLUDING FLOWERS, FLOWERING AND FOLIAGE PLANTS, BEDDING PLANTS, GROUNDCOVERS, SHRUBS, VINES, EVERGREENS AND TREES African lily, African violet, ageratum, alyssum, anthemum, arborvitae, as, asparagus sprengeri, aster, atlas cedar, azalea, bald cypress, balsam fir, bamboo, barberry, beech, begonia, birch, Boston fern, bougainvillea, boxwood, bridal veil, cacti, California, calendula, calla lily, camelia, camellias, carissa, carnation, cattleya, celery, chives, cianlto/coriander, cinnamon, clary, coriander, costmary, cumin, curry leaf, dill, fennel, fenugreek, ginseng, horehound, hyssop, mace, marjoram, mint, mustard, nasturtium, nutmeg, oregano, paprika, pennyroyal, pepper (black/white), peppermint, rosemary, rue, sage, saffron, savory, sesame, sparrmint, sweet bay leaf, tansy, tarragon, thyme, wintergreen, woodruff, wormwood

DOSSAGE RATE FOR FIELD, AGRONOMIC AND VEGETABLE CROPS (EXCEPT CORN); RANGELAND, IMPROVED PASTURES AND FORESTRY

Ground Application

Apply 1 to 1 quart of Mycotrol ESO in this mixture. Use the following amount of liquid: 5 to 10 gallons of water per acre. Finally, prepare the spray solution and apply it to the target area.
Apply Mycotrol ESO up to a maximum of 3 quarts per acre for extreme insect pressure or dense foliage.

**Aerial Application**
Apply ¼ to 1 quart Mycotrol ESO/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 ESO 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 LAM International Corporation.

**Typical Application Rates/Acre**
Diamondback moth: ½ to 1 quart of Mycotrol ESO/acre
Imported cabbage worm: ½ to 1 quart of Mycotrol ESO/acre
Cabbage looper: 1 quart of Mycotrol ESO/acre

**Leaf-Feeding Beetles**
For use against Colorado potato beetle; Mycotrol ESO 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/Acre**
Colorado potato beetle: ½ to 1 quart of Mycotrol ESO/acre

**Compatibility With Chemical Insecticides**
Mycotrol ESO is compatible with most chemical insecticides. However, some insecticide formulations can kill the fungal spores, the active ingredient in Mycotrol ESO. If you are going to use Mycotrol ESO 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 ESO is compatible in tank mix with some fungicides. Contact LAM International or your dealer for specific instructions on using Mycotrol ESO with fungicides.

**Mixing and Application for Corn – Ground and Aerial Application**

**Shake Well Before Using.** Apply Mycotrol ESO using ground and/or aerial spray equipment and chemigation using overhead sprinklers. (Follow specific directions for chemigation on this label). Mycotrol ESO contains emulsifiers and mixes readily in water. To mix, fill spray tank with half the desired amount of water and start agitation. Shake Mycotrol ESO to suspend spores, then with agitation running, slowly add desired quantity of Mycotrol ESO to spray tank. Add remainder of desired amount of water. Triple rinse empty Mycotrol ESO container with water and add rinse water to spray tank. For best results, continue agitation during spraying. Do not mix Mycotrol ESO than needed for that day. Do not mix Mycotrol ESO the day before application. Spores will die if left overnight or longer in the spray tank.

Contact your dealer or LAM International Corporation for specific instructions.

**Dosage Rates for Corn**
Apply 4 fluid ounces of Mycotrol ESO per acre (2 ½ gallons of Mycotrol ESO per 80 acres).

**Application Timing for Corn**
Apply to corn when plants are 12-16 inches high (V6-V8 stage). A single application is sufficient to establish Beauveria bassiana association with corn plants. A second application prior to second generation corn borer flight may further reduce damage from corn borers.

**Ground Application for Corn**
Apply with sufficient water to provide thorough coverage. Direct spray over row to obtain optimal coverage in whorl and leaf axils. The amount of water will depend on spray equipment, crop size and local conditions. Generally, a minimum of 10 gallons spray volume per acre is necessary to obtain adequate coverage.

**Aerial Application for Corn**
Apply with sufficient water to provide thorough coverage. Use at least 2 gallons spray volume per acre; 5-10 gallons/acre will generally improve coverage.

Contact your dealer or LAM International Corporation for specific instructions.

**Chemigation**
Apply Mycotrol ESO 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.

Apply Mycotrol ESO undiluted (neat) or diluted for injection flow rate and irrigation volume. For best results, use one part water to one part Mycotrol ESO. If Mycotrol ESO is diluted, supply tank must be agitated to thoroughly mix Mycotrol ESO in water. Add water to supply tank, start agitation, and then add Mycotrol ESO. Continue supply tank agitation during chemigation cycle to maintain uniform emulsion. Supply tank agitation is not necessary if Mycotrol ESO is used without dilution. Shake well to suspend spores before adding Mycotrol ESO 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 to 1 quart Mycotrol ESO per acre for most sprinkler chemigation applications. Apply up to 3 quarts of Mycotrol ESO per acre for high insect pressure or dense foliage. For corn, apply at a rate of 4 fluid ounces of Mycotrol ESO per acre.

For best results, time Mycotrol ESO chemigation with the end of the irrigation water application. Time injection duration to apply Mycotrol ESO 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 ESO in ¼ to ½ inches of water per acre.

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

Supply tank agitation is necessary if Mycotrol ESO is diluted in water before injection into irrigation system. Tank agitation is not necessary if Mycotrol ESO 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 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.

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

**Drip (Trickle) and Microjet Chemigation**

Use ½ to 3 quarts of Mycotrol ESO per acre for most drip or microjet chemigation. For difficult to control pests, especially citrus root weevil (Diaprepes abbreviatus), apply Mycotrol ESO at up to 8 fl. oz. of Mycotrol ESO per 1,000 square feet.

Apply Mycotrol ESO 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 ESO is diluted in water before injection into irrigation system. Supply tank agitation is not necessary if Mycotrol ESO 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.

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

Supply tank agitation is necessary if Mycotrol ESO is diluted in water before injection into irrigation system. Spray tank agitation is not necessary if Mycotrol ESO 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 ESO chemigation with the end of irrigation water application. Time injection duration to apply Mycotrol ESO 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 ESO continuously for the duration of irrigation water application. Apply sufficient volume of water to carry Mycotrol ESO 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 ¾ 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 nozzle 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 ¾ 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, nontarget 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 ESO 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 ESO 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.