

81943-4

06-26-2007

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ENVIRONMENTAL PROTECTION AGENCY

JUN 26 2007

Gary Orr, Ph.D.
Phoenix Environmental Care, LLC
400 East Jane ST
Valdosta, GA 31601

Dear Dr. Orr:

SUBJECT: T-Bird 4.5 L
EPA Registration Number 81943-4
Your label amendments submitted December 14, 2006
OPPIN Decision Number 372920

The amendment referred to above, submitted in connection with registration under section (3) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) is acceptable provided you make the following changes:

Page 2 – Directions for Use:

Move the paragraph "Not for homeowner use. For use only . . . Do not feed clippings to livestock or poultry." to the General Information section on page 3.

Page 3 – Non-Agricultural Use Requirements Box:

Revise the last sentence in this box to "Do not enter or allow others to enter treated areas without protective clothing until spray has dried"

Additionally, in the future please submit labels with sufficiently dark ink to provide clear contrast between label text and background.

Please submit one copy of the final printed labeling before the product is released for shipment.

A stamped copy of the label is enclosed for your records. If you have any questions, please contact Lisa Jones of my team at (703) 308-9424 or by e-mail at jones.lisa@epa.gov.

Sincerely,

Mary L. Waller

Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505P)

Enclosure: Stamped label

CONCURRENCES							
SYMBOL <	7505C						
SURNAME <	Lisa Jones						
DATE <	Jun 25, 2007						

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY



Phoenix
ENVIRONMENTAL CARE

JUN 26 2007
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

81943-4

T-BirdTM 4.5L FUNGICIDE

Systemic Turf and Ornamentals Fungicide

ACTIVE INGREDIENTS:

Thiophanate-methyl (dimethyl [(1,2-phenylene)-bis
(iminocarbonothioyl)] bis [carbamate])*46.2%

INERT INGREDIENTS: 53.8%

TOTAL100.0%

*Also known as dimethyl 4,4-o-phenylenebis [3-thioallophanate]

*4.5 lbs. Active Ingredient per Gallon

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

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 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.
For emergency information concerning this product, call toll free 1-888-875-1724.

Net Contents: 2.5 Gallons

Phoenix Environmental Care, LLC
P.O. Box 370 • Valdosta, GA 31603-0370

EPA Reg. No. 81943-4
EPA Est. No.: 37429-GA-2

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are nitrile and butyl rubber. If you want more options, follow the instructions for category C, on an EPA chemical-resistance category selection chart.

Handlers mixing, loading and applying the product as a dip must wear:

- Coveralls over long sleeved shirt and long pants,
- Chemical-resistant gloves made out of any waterproof material,
- Chemical resistant footwear plus socks,
- A chemical resistant apron.

All other mixers and loaders and applicators must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand held equipment, and
- Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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

Do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Not for homeowner use. For use only by certified applicators or those under their immediate supervision. Do not apply with fixed wing or rotary aircraft. Not for use on turf being grown for sale or other commercial use as sod. Do not apply to home orchards/backyard fruit trees. Do not use fruit or nuts from treated ornamental trees for food or feed. Do not graze animals on treated turf. Do not feed clippings to livestock or poultry.

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 agency responsible for pesticide regulation.

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 level (REI) of 12 hours.

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

- Coveralls over long sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear made of any waterproof material, plus socks
- Chemical-resistant headgear for overhead exposures

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of 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 treated areas without protective clothing until spray has dried.

GENERAL INFORMATION

Apply T-Bird 4.5L with ground equipment only, using sufficient volume of spray to provide thorough coverage. Add required amount of T-Bird 4.5L to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. Chemigation instructions follow Directions for Use. Do not apply through any irrigation system unless these instructions are followed.

IMPORTANT: If, after using T-Bird 4.5L as recommended, treatment is not effective, a tolerant strain of fungi may be present. Consult your local Phoenix representative, your State Agricultural Experiment Station, or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

TURF

For use on all fine turf applications such as industrial lawns, athletic fields, home lawns (by professional applicators), cemeteries, golf course greens, tees, and fairways of Bentgrasses, Blue Grasses, Bermudagrasses, Fescues, Ryegrasses, St. Augustine grasses or their mixtures. T-Bird 4.5L is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. T-Bird 4.5L is to be used for the prevention and control of the below mentioned diseases (provides both curative and protective action). Apply recommended amounts in sufficient water to obtain thorough coverage, usually three to five gallons per 1,000 square feet of turf area. When treating golf greens, always treat aprons and approaches. Use the highest recommended rate under conditions of severe disease pressure.

FUSARIUM BLIGHT (*Fusarium roseum*), **SUMMER PATCH** (*Magnaporthe poae*), **NECROTIC RING SPOT** (*Leptosphaeria korrae*) - Apply T-Bird 4.5L at 5 fluid ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 day intervals, beginning applications when the disease first appears.

GRAY LEAF SPOT [†](*Pyricularia grisea*). Apply T-Bird 4.5L at 3½ to 5 fluid ounces per 1,000 square feet beginning when conditions are favorable for disease development. Continue at 14 day intervals. Spray should dry on leaf surfaces with no watering in.

DOLLAR SPOT (*Sclerotinia homoeocarpa*), **ANTHRACNOSE** (*Collettricum graminicola*) - Apply T-Bird 4.5L at 1 to 2 fluid ounces per 1,000 square feet beginning when the disease first appears. Spray should dry on leaf surfaces with no watering in. Continue at 14 day intervals through the season or as needed.

RUST [†](*Puccinia*, *Uromyces*) Apply T-Bird 4.5L at 3½ to 5 fluid ounces per 1,000 square feet when disease first appears; repeat applications at 14 days. Make rotations and/or tank mix combinations with Pegasus L or Pegasus DF.

LARGE BROWN PATCH (*Rhizoctonia solani*), **COPPER SPOT** (*Gloeocercospora sorghi*), **RED THREAD** (*Corticium fuciforme*), **FUSARIUM PATCH** (*Fusarium nivale*) - Apply T-Bird 4.5L at 1 to 2 fluid ounces per 1,000 square feet beginning when the disease first appears and continue at 14 day intervals through the season or as needed. Spray should dry on leaf surfaces with no "watering in".

STRIPE SMUT (*Ustilago striiformis*) - Apply T-Bird 4.5L at 5 to 10 fluid ounces per 1,000 square feet. Water into the root zone by irrigating with one inch of water immediately after application. Make two applications at 14 to 21 day intervals. Begin applications when the disease first appears, either in the spring or fall.

Observe the maximum individual application rates and maximal seasonal application limits in the T-Bird 4.5L Maximum Application Rates Table.

T-Bird 4.5L Maximum Application Rates Table

Site	Maximum Individual Application Rate per Acre or per 1000 Square Feet	Minimum Retreat Interval in Days	Maximum Seasonal Total of Thiophanate-methyl a.i.	Maximum Seasonal Total of T-Bird per Acre or per 1000 Square Feet
Residential / Public areas	77.5 Fl. Oz./Acre or 1.8 Fl. Oz./1000 Square Feet	14 Days	10.88 lbs ai/acre	310 Fl. Oz./Acre or 7.12 Fl. Oz./1000 Square Feet
Golf Course Greens / Tees / Aprons	233 Fl. Oz./Acre or 5.35 Fl. Oz./1000 Square Feet	14 Days	21.8 lbs ai/acre	620 Fl. Oz./Acre Or 14.23 Fl. Oz./1000 Square Feet
Golf Course Fairways	155 Fl. Oz./Acre or 3.56 Fl. Oz./1000 Square Feet	—	5.45 lbs ai/acre	155 Fl. Oz./Acre or 3.56 Fl. Oz./1000 Square Feet
FL Golf Course Fairways Overseeded	77.5 Fl. Oz./Acre or 1.8 Fl. Oz./1000 Square Feet	—	2.72 lbs ai/acre	77.5 Fl. Oz./Acre or 1.8 Fl. Oz./1000 Square Feet

[†]Not for use in California.

ORNAMENTALS (FIELD and GREENHOUSE)

T-Bird 4.5L is a broad spectrum systemic fungicide which controls a variety of diseases on woody herbaceous ornamental crops. T-Bird 4.5L is also effective as a preplant dip on cutting and bulbs. T-Bird 4.5L may be used to control the listed diseases on ornamental fruit and nut trees.

FOLIAR SPRAY

PLANT TYPES AND DISEASES CONTROLLED¹

DISEASE(S)	PLANT TYPES
Anthrachnose	woody ornamentals, shade trees ²
Ascochyta Blight	herbaceous ornamentals
Black spot	Roses
Botrytis (Gray Mold)	woody and herbaceous ornamentals
Cercospora Leaf Spot	woody and herbaceous ornamentals
Corynespora Leaf Spot	ligustrum
Didymellina Leaf Spot	Iris
Diplodea Tip Blight (<i>Diplodea piea</i>)	shade and ornamental trees
Ovulinia	azalea, rhododendron ³
Entomosporium Leaf Spot	woody and herbaceous ornamentals
Phomopsis Blight	woody and herbaceous ornamentals
Powdery Mildew	woody and herbaceous ornamentals, ornamental fruit and nut trees
Ramularia Leaf Spot	herbaceous ornamentals
Scab	pyracantha, flowering crab, ornamental fruit and nut trees
Septoria Leaf Spots	woody and herbaceous ornamentals

KEY TO NOTES:

¹ The re-entry interval for ornamentals is 12 hours

² Begin at bud break and make 2 or 3 additional applications at 10 to 14 day intervals.

³ Begin treatment as flowers open. Addition of a surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses.

FOLIAR SPRAY-HYDRAULIC APPLICATION

Mixing instructions: Add required amount of T-Bird 4.5L to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment. Apply until leaves glisten, but not to point of runoff.

Application Rates and Timing for Diseases: Begin applications when disease first appears and repeat at 10 to 14 day intervals, during the growing season. Shorten the interval during humid, rainy weather.

Ground Application: Use 20 fluid ounces of T-Bird 4.5L per 100 gallons of water. For control of Powdery Mildew and Botrytis (Gray Mold), use 10 fluid ounces of T-Bird 4.5L per 100 gallons of water, or 1 teaspoonful per 2 gallons of water.

DRENCH

PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Botrytis	herbaceous annuals, perennials and bedding plants
Fusarium	herbaceous annuals, perennials and bedding plants
Sclerotinia stem, crown & roots	herbaceous annuals, perennials and bedding plants
Cylindrocadium rot	woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)
Thielaviopsis rot	woody ornamentals (such as azaleas, rhododendrons, conifers, poinsettias)

NOTE: T-Bird 4.5L does not control Pythium spp. or Phytophthora spp.

Mixing instructions: Add required amount of T-Bird 4.5L to partially filled tank agitated by mechanical or hydraulic means and then add remaining required amount of water. Maintain continuous agitation to keep the material in suspension.

Application Rates and Timing for Disease Control: Use 10 to 20 fluid ounces of T-Bird 4.5L per 100 gallons of water. Apply as a drench or heavy spray to 800 sq. ft. of bench area (1 to 2 pints per square foot) after transplanting into propagation beds or containers. Repeat at 2 to 4 week intervals during periods favorable for disease.

PREPLANT DIP TREATMENT

PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
All diseases listed under drench treatment	plants or cuttings of woody and herbaceous ornamentals
Fusarium and Penicillium rots	bulbs (Easter Lily, Tulip, Gladiolus, Daffodil, Iris)

Application Rates and Timing for Disease Control:

Plants or Cuttings - Use 20 fluid ounces of T-Bird 4.5L per 100 gallons of water, immerse plants or cuttings for 10 to 15 minutes; remove and allow to drain.

Bulbs - Use 33 fluid ounces of T-Bird 4.5L per 100 gallons of water, or 2 teaspoonfuls of T-Bird 4.5L per gallon of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80° to 85°F) preferably within 48 hours after digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat-cured.

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CHEMIGATION NOT FOR USE IN CALIFORNIA GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

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

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

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.

Do not connect chemigation system to any public water system. Public water system means a system for the provision 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.

SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements.

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 contamination from back flow.

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 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.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION:

Observe the requirements in the System Requirements section above.

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

Maintain a gently continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

When sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

T-Bird 4.5L may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

Prepare a suspension of T-Bird 4.5L in a mix tank. Fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of T-Bird 4.5L and then the remaining volume of water.

APPLICATION INSTRUCTIONS

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of T-Bird 4.5L into the irrigation water line so as to deliver the desired rate per acre. The suspension of T-Bird 4.5L should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

NOTE: When treatment with T-Bird 4.5L has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in the original container in a dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

Phoenix Environmental Care, LLC warrants that this product conforms to the chemical descriptions on its label. When used in accordance with label directions under normal conditions, this product is reasonably fit for its intended purpose. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and other factors affecting the use of this product are beyond our control no warranty is given concerning the use of this product contrary to label directions. To the extent allowed by applicable law the user assumes all risks of any such use.

Phoenix and design are trademarks of Phoenix Environmental Care, LLC

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T-Bird is a trademark of Phoenix Environmental Care, LLC

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