

499-542

05/26/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number:
499-542

Date of Issuance:
MAY 26 2010

Term of Issuance:
Conditional

Name of Pesticide Product:
TC 287

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Whitmire Micro-Gen Research Laboratories Inc.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122-6682

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling change listed below before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 499-542"

Signature of Approving Official:

Velma Noble
Velma Noble
Product Manager Team-31
Regulatory Management Branch I
Antimicrobials Division (7510P)

Date:

MAY 26 2010

CONCURRENCES

SYMBOL	EPA Form 8570-6						
SURNAME	7510P						
DATE	J. Jank						
	5/26/10						

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- b. Delete the references to "sanitizer" and "sanitizes" from the list of optional marketing claims on page one. Your label does not include directions for use as a sanitizer.
- c. Delete the marketing claim "Makes up to 64 gallons" from page one. Your smallest container (1 pint) can only be used to prepare 1 gallon.
- d. Delete the following sites from the "For Use On" statement on page one as these uses are not supported by your source of active ingredient. Delete "decorative pools, fountains and water displays." In addition, delete the directions for these uses from page three. Should these uses be approved for your source product at a later time, you may submit an amendment to add these uses to your label.
- e. Delete the "If Inhaled" language from the First Aid and Precautionary Statements. This language is not required for your product.
- f. Add the following Environmental Hazards Statement for products sold in containers of 5 gallons and greater: *"This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA."*
- g. As per the cited "me-too" product, add the following statement to the directions for use: *"Keep unprotected persons, children, pets and others out of treated areas until sprays have dried."*
- h. Your use rate as a disinfectant is not in agreement with the supporting efficacy data. Revise your direction for "Work Areas and Benches", "Pots, Flats and Flower Buckets", and "Cutting Tools" by deleting 6 fl. oz and replacing with **10 fl. oz.** per gallon of water. This will bring your use rate to 652 ppm which is in agreement with the disinfection data which was run at 625 ppm.
- i. Delete the directions for Treatment of Lawns, Golf Courses (Greens and Tees only) and Commercial Turf as well as the Hose End Sprayer Directions which follow from pages two and three. These uses are not supported by your source of active ingredient. Should these uses be approved for your source product at a later time, you may submit an amendment to add these uses to your label. Please be advised that should you add a commercial use to this product, Worker Protection Language may be required.
- j. Revise your container disposal language as follows:
*"Container Handling: (containers intended for residential users)
 Nonrefillable container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available."*

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“Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.”

3. The alternate brand name: Green Shield Concentrate Formula 2 Algicide/Disinfectant is acceptable and will be made part of the record for this file.

Chemistry Data

Upon completion, submit the Storage Stability and Corrosion Characteristics study (guidelines 830.6317 and 830.6320) to the Agency for review.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble
Product Manager 31
Regulatory Branch I
Antimicrobials Division (7510P)

Enclosures: Stamped Label, DER D372483, D372485

7510P:T. Lantz: 5/26/10: 499-542

CONCURRENCES

SYMBOL	SURNAME	DATE					

TC 287

[ALTERNATE BRAND NAME: Green-Shield® Concentrate Formula 2 Algicide/Disinfectant]

[Optional Marketing Claims:]

- For hobby greenhouse and residential use
- Antibacterial
- Home & Garden Algicide
- Home & Garden Disinfectant
- Multi-Purpose Algicide/Disinfectant
- Multi-Surface
- Disinfectant
- ~~Sanitizer~~
- Kills Algae and other plant pathogens
- Cleans & ~~Sanitizes~~ hard surfaces
- ~~Makes up to 100 gallons~~
- This product is a Concentrate and Must be Diluted Before Using

ACCEPTED
with COMMENTS
in EPA Letter Dated:

MAY 26 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 499-542

For Use On: Potting Benches and Work Areas, Pots, Flats, Tools, Greenhouse Glass, Patios, Walkways, ~~Driveways, Pools, Fountains and Water Displays~~

Aids in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, odor-causing bacteria and algae.

ACTIVE INGREDIENTS:

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride 0.4173%

n-Alkyl (68% C12, 32% C14) dimethyl ethyl benzyl ammonium chloride 0.4173%

OTHER INGREDIENTS: 99.1654%

TOTAL: 100.0000%

EPA Reg. No. 499-XXX EPA Est. No. 7969-MO-1

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15 – 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a 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 min. Call a poison control center or doctor for treatment advice.

(IF INHALED): Move person to fresh air. If person is not breathing, call 911 for an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice. [NOTE: Not sure if this will be required; were citing information tox.]

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information, call 1-800-225-3320 24 hr/day, 7 days/week.

[See back panel/inside booklet for First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.]

Net Contents: 1 qt

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if ~~inhaled or~~ absorbed through skin. Causes moderate eye irritation. [Avoid breathing ~~the mist or spray.~~] Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. [Note: Not sure if this is in ~~the label or not.~~]

ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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 when disposing of equipment washwaters or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with oxidizers, soap or other anionic materials.

DIRECTIONS FOR USE

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

This product has been designed specifically for greenhouse and home use where cross contamination may occur. It will help to control fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, odor-causing bacteria and algae.

Clean all surfaces prior to application of disinfectant solution. All inanimate surfaces must be thoroughly wetted with the diluted solution and remain wet for 10 min to disinfect. Prepare fresh solution at least daily or when solution becomes visibly dirty.

DISINFECTANT & DISEASE CONTROL

WORK AREA AND BENCHES: Mix 1/2 fl oz of product with 1 gal of water. Apply as a coarse, wet spray or swab surfaces and allow solution to remain on surface for 10 min. Reapply between crops to help control transfer of diseases such as root rot, crown rot, botrytis and downy mildew.

POTS, FLATS AND FLOWER BUCKETS: Mix 1/2 fl oz of product with 1 gal of water, then soak the containers in the solution for 10 min before using to help control transfer of diseases such as root and crown rots, anthracnose, mildew, rusts and blight. Brush or wash used pots and flats prior to soaking in the disinfectant solution.

CUTTING TOOLS: Mix 1/2 fl oz of product with 1 gal of water. Soak the cutting edge of tools in the solution for 10 min before using to help control transfer of diseases such as stem and root rots, Tobacco Mosaic Virus (TMV) and botrytis. Use wet tool on plants. When finished working, dry and oil tools.

ALGAE CONTROL

GREENHOUSE GLASS: Mix 2 Tbs of product with 1 gal of water. Apply as a coarse, wet spray or swab surfaces and allow to air dry. Rinse to remove dead algae. Reapply diluted solution, but do not rinse, and allow to air dry.

PATIOS, DECKS AND WALKWAYS: Mix 6 fl oz of product with 1 gal of water. For heavy infestation, apply as a coarse, wet spray or swab area and let stand for 1 hr or more. Brush and wash away dead algae. Reapply diluted solution, but do not rinse, and allow to air dry.

~~**TREATMENT OF LAWNS, GOLF COURSES (GREENS AND TEES ONLY), AND COMMERCIAL TURF**~~

To control fungal diseases including dollar spot (*Scierotinia*), fusarium blight (*Fusarium*), leaf spot (*Helminthosporium*), brown patch (*Rhizoctonia*), fading out (*Curvularia*), Southern blight (*Scierotium rostris*), pythium blight, rust, toad stools and fairy rings] and algal build-up in lawn grasses, including lawns of GRASS or DISHORDRA, spray a solution of one tablespoon (0.5 fl oz) of this product per gallon of water. Treat at the rate of one gallon of solution to 40 square feet (8 ft x 10 ft) of lawn. Treat entire lawn to prevent spread of infection or at least one foot beyond the edges of isolated disease areas. Saturate the entire treatment area, wetting all plant and soil surfaces. Repeat spray applications every 10 to 14 days as needed to control new or established disease conditions. Treatment is required during the warm growing season and must be made when the lawn is dry or damp, but not during wet rainy weather.

For golf courses: greens and tees only, and commercial turf applications follow the use directions above. If commercial power sprays are used, reduce spray concentration to 1/2 fl oz / gal of water (or 1 pt / 50 - 100 gal of spray mixture to treat 10,000 ft² or 0.25 acre)(1.6 oz / 1,000 ft² or 0.5 gal / acre)

Do not graze treated areas or feed clippings to livestock. Do not exceed 25 gal / 1000 ft². Do not exceed treatment of 10 acres (2,000 gal) with retreatment at 10 day intervals not to exceed 6 treatments/yr.

~~**HOSE END SPRAYER DIRECTIONS**~~

[Note: Included or alternative directions based on packaging]

1. 1 qt will treat up to 2,560 ft².
2. Shake container well before using.
3. Set the dial on the nozzle to the "OFF" position then connect a garden hose to the spray nozzle.
4. Turn on the water at the faucet.
5. Prepare to begin spraying by moving to the farthest point in the treatment area.

6. TO START spraying, point nozzle toward the surfaces you wish to treat. Turn the dial on the nozzle to the "MIXING" position to start the flow of water into the holding chamber where it will be automatically mixed with concentrate.
7. Spray surfaces until all areas are covered. Use a sweeping motion to apply mixture as you walk at a steady pace. For best coverage, slightly overlap the application coverage areas as you move.
8. TO STOP spraying, turn the dial on the nozzle to the "OFF" position. Turn the water off at the faucet. There will still be water in the hose and pressure on the chamber. To relieve the pressure, hold the unit away from you, turn the dial on the nozzle back to the "ON" position, release the lock and apply the remaining water until spraying stops. Remove the nozzle from the garden hose.
9. TO STORE UNUSED PRODUCT, check to see that the dial on the nozzle is in the "OFF" position (and locked). Store in a cool, dry area away from direct heat, sunlight or open flame.

DECORATIVE POOLS, FOUNTAINS & WATER DISPLAYS: Do not use when fish are present. Remove floating algae by raking, dragging with cable or chain, skimming, or any other suitable method. It is more economical to remove floating type algae before the water is treated. NOTE: Algae does not usually grow in water that is 5 ft or more in depth. However, floating type algae may grow on pond weeds that grow on the surface of the water.

DECORATIVE POOLS:

Initial Treatment: For every 26 gal of water in the pool, mix 2 Tbs of product with 4 Tbs of water to create a diluted solution. Treat water by "dribbling" the diluted solution around the edges of the pool where visible algae growth is evident. The diluted solution is often dribbled liberally along the windward side to float across the water and along the leeward side where contamination gathers. If using a spray rig for large pools, apply the use solution as a coarse, wet spray.

Weekly Maintenance: Mix 0.5 tsp - 2 tsp of product with 4 Tbs of water to create a diluted solution. Treat water by dribbling the diluted solution around the edge of the pool. Retreat weekly as needed. Bubbling may occur.

Empty, Dry Pools: Use to control algae growth in pools that will be empty for an extended period of time. Mix 6 fl oz of product with 1 gal of water. Apply to all exposed surfaces as a coarse, wet spray solution. Allow to air dry.

FOUNTAINS AND WATER DISPLAYS:

Initial Treatment: Mix 2 Tbs of product with 4 Tbs of water to create a diluted solution. This solution will be used to treat 26 gal of water in the fountain. With fountain operating, treat water by "dribbling" the diluted solution around the edges until slight patches of foam appear. Overdose reduces lighting efficiency.

Weekly Maintenance: Apply half (or less) of the initial diluted solution. Add as described above until foam reappears.

Monthly Maintenance: Drain and clean bowl. Refill with fresh water and repeat initial treatment. Draining removes airborne dirt, dust contamination and alkali buildup.

Mixing Chart for Initial Treatment of Pools, Fountain & Water Displays:

Concentrate	+	Water	to	Volume of Water to be Treated
2 Tbs		4 Tbs		26 gal
8 Tbs		1 C		104 gal
4 C		2 qt		833 gal
2 qt		1 gal		1,667 gal

EVAPORATIVE COOLERS - Algae, Fungus, Odors: Create a solution using 2 Tbs concentrate and 15 gal of water. Use every-other-week. Controls algae, slime forming fungi on cooler pads and certain fungal plant pathogens that may carry over in the cooler, as well as bacterial odors.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in an area inaccessible to children, preferably in a locked storage area. Do not store in a manner where cross contamination with other pesticides, fertilizers, food or feed could occur.

SPILL OR LEAK PROCEDURES: If spilled during storage or handling, soak up spillage with absorbent material and dispose of in accordance with Pesticide Disposal instructions listed below.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

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CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Empty the container by using the product in accordance with the label directions. Place empty container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

CONDITIONS OF SALE AND WARRANTY

Follow the **Directions for Use**. It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. Whitmire warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) WHITMIRE MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND WHITMIRE'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) WHITMIRE AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Whitmire and the Seller offer this product, and the Buyer accepts it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Whitmire.

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