

499-482

4-17-2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
499-482

Date of Issuance:
APR 17 2002

Term of Issuance:
Conditional

Name of Pesticide Product:
TC 192

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/reregistration of your product when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following labeling change before you release the product for shipment:

- A. Change the phrase "EPA Reg. No. 499-UIE" to read "EPA Reg. No. 499-482".
- B. Add "Total100%" to the ingredients statement.
- C. Under the Directions for Use, add a space between the words "amanner".
- D. In all instances where references are made to "ounces", change the reference to "fluid ounces".

Signature of Approving Official:

Date:

Mary L. Waller

4/17/02

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

E. Revise the first aid statements as follows:

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 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 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 eye. Call a poison control center or doctor for treatment advice.

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

3. Submit one copy of the final printed label before you release the product for shipment.

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.

Sincerely,

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

Enclosure: Stamped Label

TC 192

This product is a Concentrate and Must be Diluted Before Using

ACTIVE INGREDIENTS:

didecyl dimethyl ammonium chloride: 12.0%
n-Alhyl (C14 50%, C12 40%, C10 10%) dimethyl
benzyl ammonium chloride: 8.0%

OTHER INGREDIENTS: 80.0%

EPA Reg. No. 499-UIE
EPA Est No. 499-MO-1

**KEEP OUT OF REACH OF CHILDREN
DANGER**



POISON

NET CONTENTS: 1 Gallon

TC 192 Container Label v1.0.1 6/99

FIRST AID

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink plenty of water, if possible, gentle solution, or if these are not available, with large quantities of water. Avoid alcohol.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

See supplemental label for additional Precautionary Statements.



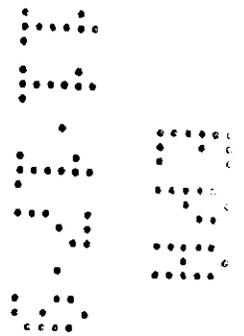
WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
800-777-8570

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

APR 17 2002

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

499-482



TC 192

This product is a Concentrate and Must be Diluted Before Using

ACTIVE INGREDIENTS:

didecyl dimethyl ammonium chloride 12.0%
 n-Alkyl (C₁₄ 50%, C₁₂ 40%, C₁₀ 10%) dimethyl benzyl
 ammonium chloride 8.0%

OTHER INGREDIENTS: 80.0%

EPA Reg. No. 499-xxx EPA Est No. 499-MO-1

KEEP OUT OF REACH OF CHILDREN

DANGER

See Reverse Side for Additional Precautionary Statements.



POISON

FIRST AID

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, apple juice, plain water, or if these are not available, drink large quantities of water. Avoid alcohol.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

See Reverse Side for Additional Precautionary Statements.

WHITMIRE MICRO-GEN
 RESEARCH LABORATORIES, INC.
 800-777-8570

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

TC 192 has been designed specifically for greenhouse, nursery, interiorscape and landscape use for disinfection of tools, benches, work surfaces, floors and plant containers from plant pathogens, algae, and other biologic agents.

For best results, moderately preclean all surfaces prior to application of the TC 192 solution. Precleaning preserves the strength of the TC 192 solution and improves disinfecting efficacy. This precleaning can be done by washing the loose organic matter (growing media, plant debris, etc.) away with water. Washed objects need not be dried prior to TC 192 treatment.

All treated surfaces and objects must be thoroughly wetted with TC 192 and remain wet for 10 minutes for disinfection. If drying occurs within 10 minutes, rewet the treated object. This rewetting can be done as often as necessary.

Fresh solution should be prepared daily or when used solution becomes visibly dirty or fails to foam.

When used according to lowest labeled directions (0.25 ounce), TC 192 has been demonstrated to kill fungal pathogens (such as, Botrytis, Fusarium, Pythium, Phytophthora, Rhizoctonia, Verticillium), bacterial pathogens (such as Agrobacterium, Burkholderia, Clavibacter, Erwinia, Pseudomonas, Xanthomonas), and mechanically transmitted viral plant pathogens (such as Tobacco Mosaic, Biddens Mottle, Cucumber Mosaic, Dasheen Mosaic), slime forming fungi, odor-causing bacteria, certain insect structures and algae. For Thielaviopsis (Charata), use 0.5 fl. oz. per gallon or greater.

SPRAY DILUTION CHART

Organism			Ounces per Gallon
Fungal	Bacterial	Viral	
Botrytis, Fusarium, Pythium, Phytophthora, Rhizoctonia, Verticillium	Agrobacterium, Burkholderia, Clavibacter, Erwinia, Pseudomonas, Xanthomonas	Tobacco Mosaic, Biddens Mottle, Cucumber Mosaic, Dasheen Mosaic	0.25 fl. oz. to 1.0 fl. oz.
Thielaviopsis (Charata)			0.5 fl. oz. to 1.0 fl. oz.
Slime forming fungi, odor-causing bacteria, certain insect structures and algae			0.5 fl. oz. to 1.0 fl. oz.

One Ounce = Two Tablespoons = Six Teaspoons

PART I: TREATMENT OF OBJECTS

Disinfection of Work Tables and Carts: Thoroughly wet precleaned working surfaces and carts before each work period and again after each session is completed to control pathogens causing root and stem rots, blights, rusts, leaf spots, virus diseases and mildews. Disinfect carts daily during periods of heavy use. Use 25 to 100 ounces of TC 192 per 100 gallons of water (1/2 to 2 Tablespoons to 1 gallon water). Keep surfaces wet for 10 minutes re-wetting as necessary. Allow to dry before using. Retreat when necessary.

Disinfection of Pots, Flats, Transplant Trays, Tray or Pot Holders, Hanging Baskets, Other Plant Containers, Saucers and Water Collectors: Wash the above objects that have been previously used. Soak in the TC 192 solution for 10 minutes before using again to control transfer of pathogens causing root and stem rots, leaf spots, mildews, rusts, virus diseases and blights and to rid container of algae. Allow to dry before using. Use 25 to 100 ounces of TC 192 per 100 gallons of water (1/2 to 2 Tablespoons per gallon). Fresh solution should be prepared daily or when used solution becomes visibly dirty or fails to foam.

Watering Lines, Watering Tubes, Emitters, Drip Lines, Watering Nozzles and Hoses: Disinfect by totally immersing or running TC 192 through all such irrigation devices for 10 minutes before reuse to control transfer of fungal, bacterial and viral plant pathogens. When immersing such objects, use weights to keep all of the parts of the irrigation device below the level of the solution. Fresh solution should be prepared daily or when used solution becomes visibly dirty or fails to foam. Use 25 to 100 ounces of TC 192 per 100 gallons of water (1/2 to 2 Tablespoons per gallon).

Cutting and Pruning Tools and Knives: Disinfect all cutting edges of tools or knives for 10 minutes in TC 192 before use to control transfer of fungal, bacterial and viral plant pathogens. Retreat, if necessary, between each cut, between each stock plant or between batches of plants. The frequency of treatment of tools or knives is important. Soak some of the tools or knives in TC 192 while work is continuing. There is no need to rinse tools or knives after soaking. Small containers of TC 192 are best for this type of disinfection. Fresh solution should be prepared daily or when used solution becomes visibly dirty or fails to foam. At the end of the work session, dry and oil tools or knives. Use 1 to 2 teaspoons of TC 192 per quart of water.

PART II: TREATMENT OF SURFACES FOR DISINFECTING:

Disinfection of Growing Surfaces such as Floors or Benches (areas where plants are grown): Disinfect growing surfaces (floors or benches) when necessary to control the transfer of fungal, bacterial and viral plant pathogens. Use 25 to 100 ounces of TC 192 per 100 gallons of water (1/2 to 2 Tablespoons to 1 gallon water). Keep surfaces wet for 10 minutes re-wetting as necessary. Avoid contact with desired plants as much as possible.

4/5



TC 192

Disinfection of Walkways, Work Area Floors and Beneath Benches: Disinfect all walkways, work area floors and beneath benches when needed by thoroughly wetting with TC 192. Use 25 to 100 ounces of TC 192 per 100 gallons of water (1/2 to 2 Tablespoons to 1 gallon water). Keep surfaces wet for 10 minutes re-wetting as necessary. Avoid contact with desired plants as much as possible.

TREATMENT OF SURFACES FOR ALGAE CONTROL

Removal of Algae on Greenhouse Windows, Bars, Cooling Pads and Walls: Disinfect all surfaces where algae are growing with TC 192, but make sure that treated surfaces remain wet for 10 minutes re-wetting as necessary. For heavy infestations, wash off dead algae 12 to 24 hours later with another treatment of TC 192. For this washing, it is recommended that a high pressure sprayer or a brush be used to properly loosen the dead algae. Use 50 to 100 ounces of TC 192 per 100 gallons of water (1 to 2 Tablespoons per gallon).

Removal of Algae on Walkways, Benches, Beneath Benches, Floors or Subirrigation Mats: For heavy infestations, spray or swab with TC 192. Let stand wet for 10 minutes. For heavy infestations, remove dead algae with a high pressure washer or a brush 12 to 24 hours later with more TC 192. Repeat the procedure if algae growth returns. Use 50 to 100 ounces of TC 192 per 100 gallons of water (1 to 2 Tablespoons per gallon).

For Algae, Fungi and Odor Management on Evaporative Coolers: Controls algae, slime forming fungi and fungal plant pathogens on cooler pads and in the cooler pad water. Controls odor caused by bacteria. Use one teaspoon of TC 192 for every 15 gallons. Repeat treatment every other week.

ALGICIDE FOR FOUNTAINS, WATER DISPLAYS, DECORATIVE POOLS/PONDS AND STANDING WATER

(In such places as puddles at golf courses, recreational parks, amusement parks, universities and cemeteries.)

For Use Against Algae and Their Odors: This product is effective against algae. It is a clear liquid that mixes readily in water and will not separate. With a little experience, you will quickly recognize algae contamination as it starts. Algae should be killed immediately. REMEMBER - algae can double or quadruple in growth every day.

TREATMENT:

1. Remove floating type algae by taking dragging with cable or chain; skimming or any other suitable method. It is more economical to remove floating type algae (if possible) before the water is treated.

2. Treat water by "dribbling" TC 192 solution (one part TC 192 added to four parts water) around the edges where algae first grows. The use solution need be applied only where visible algae growth is evident. This use solution is often "dribbled" liberally along the windward side to float across the water - also along the leeward side where contamination gathers. Where a spray rig is available - it may be used to apply the use solution - instead of the hand "dribbling" method.

Algae is generally dead when it does not feel slick to the touch and the color has changed. However, algae does not always change color when killed.

Note: Algae does not usually grow in water that is five feet or more in depth. However, floating type algae may grow on pond weeds that grow on the surface of the water.

APPLICATIONS:

- Initial Dosage:**
- 1 tsp. TC 192 per 52 gallons of water (5 ppm*)
 - 1 fl. oz. TC 192 per 312 gallons of water (5 ppm*)
 - 1 pint TC 192 per 5,000 gallons of water (5 ppm*)
 - 1 quart TC 192 per 10,000 gallons of water (5 ppm*)

*ppm-parts per million active ingredients.

Weekly Maintenance: You will observe that this product created a few extra bubbles. Each week add not more than one-half (1/2) the initial dosage. Or, add slowly until the permissible bubble level is obtained. Apply by hand or automatic proportioner.

Note: When pool is to remain empty for several weeks or longer, spray all exposed surfaces with solution (1 fl. oz. per 2 gallons of water). This will control the growth of algae.

Initial Treatment: Fountain operating, put a few drops at a time in water, until slight patches of foam appear. Overdose reduces lighting efficiency.

Each Week: Add drops until slight foam reappears.

Each Month: Drain and clean bowl. Refill with fresh water, and repeat initial treatment. Draining removes airborne dirt, dust, contamination and alkali build-up.

Note: Do not use when fish are present. It may cause fish to suffocate and die.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do Not Reuse Empty Container.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Fatal if absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, faceshield, or safety glasses), protective clothing and chemical resistant gloves. Fatal if inhaled. Do not breathe spray mist. For handling activities, use either a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix 14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

A Prescription Treatment® brand product from:

Whitmire Micro-Gen Research Laboratories, Inc.

3568 Tree Court Industrial Blvd.

St. Louis, MO 63122-6682

www.wmmg.com

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5/5