

64962-1

3/18/2003

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Earth Science Laboratories, Inc.
% Christine Waldmann Carmody
Pepper Hamilton LLP
Hamilton Square
600 Fourteenth Street, N.W.
Washington, D.C. 20005-2004

MAR 18 2003

Subject: Earthtec
EPA Reg No. 64962-1
Your revised label dated March 10, 2003

Dear Ms Carmody:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is accepted provided the following changes are made:

ENVIRONMENTAL HAZARDS (page 3): change word from "treatment" to "treatments"

PRISTINEBLUE Sub-label: GENERAL INFORMATION (page 7): change "&" to "and"

RELIANCE™, PRISTINEBLUE, and Algae Shield™ Sub-labels: APPLICATION AND HANDLING EQUIPMENT (page 7): Change "PVC's" to "PVC". Change "polypropylenes" to "polypropylene"

EARTHTEC AND AGRITEC Sub-Labels: APPLICATION AND HANDLING EQUIPMENT (page 7): Change "PVC's" to "PVC". Change "polypropylenes" to "polypropylene"

STORAGE AND DISPOSAL: PESTICIDE STORAGE (page 8): change "nylon storage handling equipment" to "nylon storage or handling equipment"

Animal Confinement Pits: (page 9): change "add EARTHTEC to transfer line" to "add EARTHTEC to the transfer line"

EARTHTEC Sub-Label: SPECIFIC DIRECTIONS FOR USE:

2 8 15

EARTHTEC
Page 2

To Control Algae .. Conveyance Systems. (page 9): in second line, change "loner"
to "longer"

To Control Algae ... Reservoirs (page 10, ¶ 2): change from "water than less than"
to "water less than"

RADIANCE™ Sub-Label: SPECIFIC DIRECTIONS FOR USE:

To Control Algae .. Conveyance Systems. (page 10): in second line, change "loner"
to "longer"

To Control Algae ... Reservoirs (page 10, ¶ 2): change from "water than less than"
to "water less than"

A stamped copy of the label is enclosed for your records. Please submit one (1) copy of the final printed label before you release the product for shipment.

If you have any questions, please call Robert Westin at (703) 305-5721.

Sincerely,



Dennis McNeilly
Acting Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Enclosure

**MASTER LABEL
FOR EARTHTEC, EPA REG. NO. 64962-1**

Sub-Label Product Names

EARTHTEC

Algicide/Bacteristat

For Lakes, Ponds, Reservoirs, Canals, Lagoons, And Other Similar Systems

Aquatrols RADIANCE™

Algicide

For Lakes and Ponds

AGRITEC

Algicide/Bacteristat For Lakes, Ponds Reservoirs, Canals, Lagoons, Aquaculture systems, And Irrigation Systems

PRISTINEBLUE

Algicide for Swimming Pools, Spas and Hot Tubs

Algae Shield™

All Uses and All Sub-Labels:

ACTIVE INGREDIENTS:

From Copper Sulfate Pentahydrate *	19.8%*
Inert Ingredients	80.2%
TOTAL	100.0%

*Metallic Copper Equivalent Equal ----- 5%

THIS PRODUCT WEIGHS 9.9 LBS PER GALLON

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

MAR 18 2003
**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.**

64962-1

All Uses and All Sub-Labels:

KEEP OUT OF REACH OF CHILDREN

DANGER

PELIGRO

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

FIRST AID

If SWALLOWED: Call a poison control center or doctor immediately for treatment advice.
Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15 -20 minutes. Call a poison control center or doctor for treatment.

If IN EYES: Hold eye open and rinse slowly and gently with water for 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

All Uses and All Sub-Labels:

MFG. BY:

Earth Science Laboratories, Inc.
2829 Bella Vista Way, Suite C
Bella Vista, AR 72714
Phone: 800-257-9283

EPA REGISTRATION NO.:

64962-1

EPA ESTABLISHMENT NO.:

64962-NB-001

EARTHTEC Sub-Label:

NET CONTENTS:

FIVE (5) U.S. GALLON
9.9 lbs. Per Gallon
1.188 kg/L

5 7 15

RADIANCE™ Sub-Label:



NET CONTENTS: 9.9 lbs. Per Gallon
1.188 kg/L
FIVE (5) U.S. GALLONS

THIRTY (30) U.S. GALLONS

AGRITEC Sub-Label:

NET CONTENTS: 9.9 lbs. per Gallon
1.188 kg/L

PRISTINEBLUE and Algae Shield™ Sub-Labels:

NET CONTENTS: 64 FL. OZS. (1,896 ML)
9.9 lbs. Per Gallon
1.188 kg/L

All Uses and All Sub-Labels:

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

DANGER

Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Avoid contact with skin. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if swallowed, inhaled, or absorbed through skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

EARTHTEC, RADIANCE™, and AGRITEC Sub-Labels:

ENVIRONMENTAL HAZARDS

Fish and Aquatic Organisms: This product is toxic to fish. Direct application of copper sulfate to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than one-half of a lake or pond at one time to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 weeks between treatment for oxygen levels to recover. Trout

and other species of fish may be killed at application rates recommended on this label, especially in soft or acidic waters. Do not contaminate water when disposing of equipment wash waters. (See Disposal Instructions). Consult your local State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

Endangered Species Restrictions: It is a violation of Federal laws to use any pesticide in a manner that results in the death of an endangered species or advise modification of their habitat. The use of this product may pose a hazard to certain federally designed endangered species known to occur in specific areas within the following counties:

State	Species	Bulletin No.	County
California	Solano Grass	EPA/ES-85-13	Solano
Tennessee	Slackwater Darter	EPA/ES-85-04	Lawrence
			Wayne
			Hancock
	Freshwater Mussels	EPA/ES-85-07	Claiborne
			Hawkins
			Sullivan
Alabama	Slackwater Darter	EPA/ES-85-05	Lauderdale
			Limestone
			Madison
Virginia	Freshwater Mussels	EPA/ES-85-06	Grayson
			Smyth
			Scott
			Washington
			Lee

All Uses and All Sub-Labels:

PLEASE NOTE: Before using this product in the above counties you must obtain the EPA bulletin specific to your area. This Bulletin identifies areas within these counties where the use of this pesticide is prohibited unless specified otherwise. The EPA Bulletin is available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters or the appropriate Regional Office of the U.S. Fish and Wildlife Service.

For Chemical Emergency
Call INFOTRAC 1-800-535-5053

Non – Flammable. Do Not Freeze.

All Uses and All Sub-Labels:

THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE USE

EARTHTEC, RADIANCE, and AGRITEC Sub-Labels:**PERSONAL PROTECTIVE EQUIPMENT:**

Applicators and other handlers must wear:

- Long-sleeved shirt,
- Long pants,
- Chemical-resistant gloves made of any waterproof material. Chemical resistance category A.
- Protective eyewear, and
- Shoes plus socks.

Maintain this clothing separately from other laundry and wash with detergent and hot water, or according to manufacturer's label. If these items become drenched with this product's concentrate, discard the clothing and do not re-use.

PRISTINEBLUE and Algae Shield™ Sub-Labels:**Use to Control Algae and Suppress Growth of Bacteria in Swimming Pools:**

Use chemical-resistant gloves made of any waterproof material. Chemical resistance category A.

EARTHTEC, RADIANCE™, PRISTINEBLUE, and Algae Shield™ Sub-Labels:**DIRECTIONS FOR USE**

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

AGRITEC Sub-Label:**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 requirement specific to your State and Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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 the label about personal protective equipment (PPE), restricted re-entry interval, and notification to workers. Do not enter or allow entry into treated areas during restricted entry interval (REI) of 24 hours. PPE for early entry into treated areas as permitted by the Worker Protection Standard, involving anything that has been treated, such as plants, soil or water requires: coveralls, protective eyewear, chemical resistant gloves (i.e., gloves made of any waterproof material), and shoes plus socks.

EARTHTEC Sub-Label:**GENERAL INFORMATION**

EARTHTEC is an innovative, unique formulation used for the suppression of bacterial odors and toxic gases in sewage lagoons, feedlot run-off pits, animal confinement facilities and other ponds containing organic matter or algae/bacteria. EARTHTEC may be used to control algae and pond weed and suppress bacterial growth in irrigation reservoirs, ponds, aquacultural ponds and lagoons, and potable water supplies. A "bacteriostat" is a substance that inhibits or suppresses the growth of bacteria.

RADIANCE Sub-Label:**GENERAL INFORMATION**

RADIANCE is an innovative, unique formulation used to control algae in irrigation reservoirs, ponds, lakes and irrigation conveyance systems.

AGRITEC Sub-Label:**GENERAL INFORMATION**

AGRITEC is an innovative formulation used for suppression of bacterial odors and toxic gases in sewage lagoons, feedlot run-off pits, animal confinement facilities and other ponds containing organic matter, algae, and in some uses bacteria. AGRITEC may also be used to control algae and suppress bacterial growth in irrigation reservoirs, ponds, flooded rice and wild rice fields, livestock watering systems, aquaculture ponds or systems, and in chemigation systems. A "bacteriostat" is a substance that inhibits or suppresses the growth of bacteria.

PRISTINEBLUE Sub-label:**GENERAL INFORMATION**

PRISTINEBLUE is an innovative, unique formulation used for control of algae and suppression of bacterial growth in private & public pools, spas and hot tubs.

Algae Shield™ Sub-label:**GENERAL INFORMATION**

Algae Shield™ is an innovative, unique formulation used for control of algae in private & public pools, spas and hot tubs.

RADIANCE™, PRISTINE BLUE, and Algae Shield™ Sub-labels:**APPLICATION AND HANDLING EQUIPMENT**

Application, handling or storage equipment MUST consist of either fiberglass, PVC's, polypropylenes, viton, most plastics, aluminum or stainless steel. Never use mild steel, nylon, brass or copper around full strength RADIANCE/PRISTINEBLUE/Algae Shield™.

Always rinse equipment free and clean of RADIANCE/PRISTINEBLUE/Algae Shield™ each night with plenty of fresh, clean water.

Always store RADIANCE/PRISTINEBLUE/Algae Shield™ above 32 degrees F. Freezing may cause product separation. Seller makes no warranty for product which has been frozen. Useful formulas for calculating water volume and flow rates. To find the capacity of water storage containment in gallons, multiply the water volume in cubic feet times 7.5.

NOTE: 1CFS/hr = 27,000 gallons

1 Acre foot = 326,000 gallons

EARTHTEC AND AGRITEC Sub-Labels:**APPLICATION AND HANDLING EQUIPMENT**

Application, handling or storage equipment MUST consist of either fiberglass, PVC's, polypropylenes, viton, most plastics, aluminum or stainless steel. Never use mild steel, nylon, brass or copper around full strength EARTHTEC/AGRITEC.

Always rinse equipment free and clean of EARTHTEC/AGRITEC/ each night with plenty of fresh, clean water.

Always store EARTHTEC/AGRITEC/ above 32 degrees F. Freezing may cause product separation. Seller makes no warranty for product which has been frozen. Apply over entire area of lagoon or mix thoroughly until completely dispersed with sewage. Useful formulas for

calculating water volume and flow rates. To find the capacity of water storage containment in gallons, multiply the water volume in cubic feet times 7.5.

NOTE: 1CFS/hr = 27,000 gallons

1 Acre foot = 326,000 gallons

All Uses and All Sub-Labels:

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat.

EARTHTEC/RADIANCE™/AGRITEC/PRISTINEBLUE/Algae Shield™ will freeze. Always keep container closed. Store EARTHTEC/RADIANCE™/AGRITEC/PRISTINEBLUE/Algae Shield™ in its original container only. Keep away from galvanized pipe, and any nylon storage handling equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess EARTHTEC/RADIANCE™/AGRITEC/PRISTINEBLUE/Algae Shield™, 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.

In the event of spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

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.

EARTHTEC and AGRITEC Sub-Labels:

GENERAL BACTERIAL ODOR CONTROL

Application rates may vary depending on amounts of organic matter(sewage) in lagoons and pits. Application should be done by pouring EARTHTEC/AGRITEC directly from the container into the pit or lagoon. Several application points speed up dispersal. Use one gallon of full strength EARTHTEC/AGRITEC in 60,000 gallons(8,000 cubic feet) of sewage. For easiest results disperse EARTHTEC/AGRITEC evenly throughout sewage. Bacterial odors should be noticeably reduced in 1-2 weeks. Repeat application when odor reoccurs.

Feedlot Run-Off Lagoons: Add a portion of the required dosage of EARTHTEC/AGRITEC at several locations around the lagoon to speed dispersal of the product. A minimum of two

applications per year (spring and fall) is recommended. Additional applications may be required as needed when the lagoon is pumped.

Animal Confinement Pits: If pits are located under the confinement buildings, add EARTHTEC/AGRITEC directly to these pits. If the pits are outside, add EARTHTEC to transfer line to the pit.

Other Organic Sludges: EARTHTEC/AGRITEC must be thoroughly mixed with sludge. Apply at the rate of one gallon EARTHTEC/AGRITEC in 30,000 gallons of sludge.

Earthtec, Radiance, and Agritec Sub-Labels:

GENERAL ALGAE CONTROL

For algae control, apply in the late spring or early summer when algae first appear. The dosages are variable and depend upon algae species, water hardness, water temperature, amount of algae present, as well as whether water is clear, turbid, flowing or static. Preferably, the water should be clear with temperature above 60 degrees F (15.6 degrees C). Higher dosages are required at lower water temperatures, higher algae concentrations and for hard waters. Application should be done by pouring EARTHTEC/RADIANCETM/AGRITEC directly from the container into the lakes, ponds reservoirs or irrigation canals. Several application points speed up dispersal. Static water requires less chemical for algae control than does flowing water. Use higher dosages for chara, nitella and filamentous algae (pond scum) and lower dosages for planktonic algae. If there is uncertainty about the dosage begin with a lower dosage and increase until control is achieved or until the maximum allowable level has been reached.

Treatment of algae can result in oxygen loss from the decomposition of dead algae. This loss can cause fish suffocation. If the algae cover more than one-third of the total water area, treat in sections. Treat one-half of the water area in a single operation and wait for 10 to 14 days between treatments. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. In regions where ponds freeze in winter, treatment should be done 6 to 8 weeks before expected freeze to prevent masses of decaying algae under an ice cover.

Trout and certain other species of fish may be killed at recommended application rates, especially in soft or acidic waters. Before treating bodies of water, consult proper state authorities such as the Fisheries Commission or Conservation Department to obtain any necessary permits.

EARTHTEC Sub-Label:

SPECIFIC DIRECTIONS FOR USE

To Control Algae in Irrigation Conveyance Systems: For continuous addition, add one pint EARTHTEC/RADIANCETM for each 7,500-300,000 gallons. For conveyance systems longer than 30 miles, it is recommended that the above dose be dispersed among the injection points every 30 miles. However, do not exceed the dose of one gallon in 60,000 gallons.

To Control Algae in Impounded Waters, Lakes, Ponds, Lagoons, Livestock watering systems, and Reservoirs: For easiest results disperse EARTHTEC/RADIANCE™ evenly throughout the body of water. Apply at the rate of one pint EARTHTEC/RADIANCE™ in 7,500 – 300,000 gallons. For best results apply to warm still water on a sunny day when algae are near the surface. For potable and livestock water systems, do not exceed one gallon in 60,000 gallons under any circumstances (1 ppm metallic copper).

Do not apply copper sulfate to water than less than 40 ppm alkalinity without first doing a preliminary toxicity test on fish in the water in a separate container. Copper sulfate may be very toxic to trout and other species in soft or acid waters so preliminary testing is necessary.

RADIANCE™ Sub-Label:

SPECIFIC DIRECTIONS FOR USE

To Control Algae in Irrigation Conveyance Systems: For continuous addition, add one pint EARTHTEC/RADIANCE™ for each 7,500-300,000 gallons. For conveyance systems longer than 30 miles, it is recommended that the above dose be dispersed among the injection points every 30 miles. However, do not exceed the dose of one gallon in 60,000 gallons.

To Control Algae in Impounded Waters, Lakes, Ponds, Livestock watering systems, and Reservoirs: For easiest results disperse EARTHTEC/RADIANCE™ evenly throughout the body of water. Apply at the rate of one pint EARTHTEC/RADIANCE™ in 7,500 – 300,000 gallons. For best results apply to warm still water on a sunny day when algae are near the surface. For potable and livestock water systems, do not exceed one gallon in 60,000 gallons under any circumstances (1 ppm metallic copper).

Do not apply copper sulfate to water than less than 40 ppm alkalinity without first doing a preliminary toxicity test on fish in the water in a separate container. Copper sulfate may be very toxic to trout and other species in soft or acid waters so preliminary testing is necessary.

AGRITEC Sub-Label:

SPECIFIC DIRECTIONS FOR USE

To Control Algae in Rice Fields and Wild Rice Fields: AGRITEC should be applied at the first sign of algae growth on the surface of the field. Applications are most effective when made prior to algae leaving the soil surface and rising to the water surface. Factors such as water depth, temperature, pH and the amount of algae can affect the amount of AGRITEC required but do not exceed 5-7 gallons per acre. AGRITEC can be metered into the rice field as water is being applied or slug fed into each paddy when water is being held.

To Control Tadpole Shrimp in Rice Fields: Application should be made to the flooded fields any time the pest appears from planting time until the seedlings are well rooted and have emerged through the water. The use rate per acre should be determined by the water depth and flow. Use 2 gallons AGRITEC per acre as the initial rate at minimum flow and water depth and 4 gallons AGRITEC per acre as the higher rate when depth and flow are maximum.

To Control Algae or Bacterial Odor in Non-Sprinkler, Non-Drip Irrigation Conveyance Systems and Chemigation Systems, Ditches, Canals, and Similar Irrigation

Conveyances: For continuous addition, add one pint AGRITEC for each 7,500-300,000 gallons. For conveyance systems longer than 30 miles, it is recommended that the above dosage be dispersed among the injection points every 30 miles. However, do not exceed the total dose of one gallon in 60,000 gallons (1 ppm metallic copper).

To Control Algae or Bacterial Odor in Sprinkler, Drip or Other Types of Irrigation

Equipment: Agitation is not required. Do not mix with basic substances. Agritec must be applied continuously for the duration of the water application.

Mixing instruction for dilution of Agritec is 1 pint per 7,500 to 300,000 gallons of water.

To Control Algae in Impounded Waters, Lakes, Ponds, Aquaculture Systems, and

Reservoirs: For easiest results disperse AGRITEC evenly throughout the body of water. Apply at the rate of one pint AGRITEC in 7,500 - 300,000 gallons. For best results apply to warm still water on a sunny day when algae are near the surface. For potable water systems, do not exceed one gallon in 60,000 gallons under any circumstances (1 ppm metallic copper).

PRISTINEBLUE and Algae Shield™ Sub-Labels:

SPECIFIC DIRECTIONS FOR USE

To Control Algae in Swimming Pools, Spas & Hot Tubs: Treated pool effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Apply at the rate of 2-4 quarts of PRISTINEBLUE/Algae Shield™ per 60,000 gallons (8,000 cu. ft.) This will yield a rate of from 0.5 ppm to 1.0 ppm metallic copper. Application should be made before visible algae appear. Where visible algae are present, apply at the higher rate. For maintenance dosages and where visible algae are not present, use the lower rate. Repeat maintenance dosages to maintain the recommended concentration and avoid excessive buildup of metallic copper. PristineBlue may be used to help control pool odors and algae during the winter months. Maintain the higher rate while the pool is not being used during the winter.

All Uses and All Sub-Labels:

LIMITED WARRANTY AND LIMITATION OF REMEDIES

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purpose stated on the label for use under normal conditions, but makes no other warranties of FITNESS OR MERCHANTABILITY expressed or implied, or any other warranty if the product is used contrary to the label instructions, or under abnormal conditions or under conditions not foreseeable to the seller. In no case shall the seller be liable for more than the cost of this product to the buyer and will in no event be liable for any consequential, special or indirect damages connected with the use or handling of this product. This product is offered and the buyer or user accepts it subject to the foregoing terms which may not be varied.

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All Uses and Sub-Labels:

Manufactured by: Earth Science Laboratories, Inc.
2829 Bella Vista Way, Suite C
Bella Vista, AR 72714
Phone: 479-855-5800

RADIANCE™ Sub-Label:

Distributed by: Aquatrols Corp
5 North Olney Avenue
Cherry Hill, NJ 08003 USA
Phone: 856-751-0309
Fax: 856-751-3859
www.aquatrols.com