

Accepted stamp on
page 9 of 9

72536-1

10/30/2001

1/9



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OCT 30 2001

Denise De Lancy
Cheltec, Inc.
2215 Industrial Boulevard
Sarasota, Florida 34234

Subject: AquaPlex
EPA Registration No. 72536-1
Your label amendment application dated September 6,
2001

Dear Ms. De Lancy,

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable, provided that you make the following changes to the labeling:

1. In the table of Endangered Species restrictions by state and county, change the spelling of the second Virginia county from "Sayth" to "Smyth". There is no "Sayth" County in Virginia.
2. On page 4 in the third line from the bottom, change "ounce" to "fluid ounce".
3. In the column headings on the table on page 6 change "Oz./Min." to "Fl. Oz./Min."
4. Submit one copy of your final printed labeling before you release the product for shipment.

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

If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

CS

Cynthia Giles-Parker
Product Manager (22)
Fungicide Branch
Registration Division (7505C)

Attachment: Label stamped "ACCEPTED with COMMENTS"

AquaPlex™

ALGAECIDE / HERBICIDE

RESIDUAL CONTROL

FOR USE IN: LAKES; POTABLE WATER RESERVOIRS; SWIMMING AREAS; FARM, FISH, INDUSTRIAL, GOLF COURSE, ORNAMENTAL AND IRRIGATION PONDS; CROP AND NON-CROP IRRIGATION CONVEYANCE SYSTEMS; CANALS, DITCHES, AND LATERALS; FISH HATCHERIES.

Active Ingredient:

*Copper Sulfate Pentahydrate 19.8%

Other Ingredients 80.2%

*Metallic copper equivalent 5.4% Total 100.0%

KEEP OUT OF REACH OF CHILDREN DANGER

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

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 Inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. [You may also contact 1-800-424-9300 for emergency medical treatment information.]

<p align="center">PRECAUTIONARY STATEMENTS</p> <p align="center">HAZARDS TO HUMANS AND DOMESTIC ANIMALS</p> <p align="center">DANGER</p> <p>Corrosive: Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles or safety glasses when handling. Harmful if swallowed, inhaled, or absorbed through skin. Contact with skin may cause allergic skin response. Avoid contact with</p>
--

skin. Wash thoroughly with soap and water after handling. As with all chemical applications, apply best management practices to avoid unnecessary contact with concentrate or spray mixture. For 24-hour assistance or information regarding spill, leak, fire, or exposure to this product, please call Chemtrec at 1-800-424-9300.

ENVIRONMENTAL HAZARDS

Fish and Aquatic Organisms: This product may be toxic to Trout, Koi, and other species of fish at application rates recommended on this label, especially in soft or acidic waters. Fish toxicity is directly correlated with water hardness and generally decreases as the hardness of the water increases. If the carbonate hardness is below 50 ppm, do not use this product in waters containing susceptible fish species without consulting Chemtec, Inc. or local authority prior to treatment. Direct application of AquaPlex to water may cause a significant reduction in populations of aquatic invertebrates, plants, and certain species of fish. Do not treat more than one-half of a lake or pond at one time in order to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 weeks between treatments for oxygen levels to recover.

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 adverse modification of their habitat. The use of this product may pose a hazard to certain Federally designated 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 Sayth Scott Washington Lee

***** 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.

THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE USE.

Potable Water: Do not allow water containing in excess of 1 ppm copper derived from AquaPlex to flow into any water to be used as potable water.

Terrestrial Plants: Do not apply this product in its concentrated form directly to any crop plants, grass, or ornamental plants as injury may result.

EPA Reg. No. 72536-1

EPA Est. 72536-FL-1

NET CONTENTS: 2.5 GALLONS (9.46 LITERS)

APPLICATION AND HANDLING

This product is corrosive to cotton fabrics. Do not allow clothing to come in contact with concentrate or dilution. Application, handling, or storage equipment **MUST** consist of fiberglass, PVC's, polypropylenes, viton, most plastics, or stainless steel. Never use mild steel, nylon, brass, or copper around full strength AquaPlex. Wash spray equipment after each application.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Permits for the use of this product in public water may be required. Check with local authorities.

STORAGE AND DISPOSAL

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

Storage: AquaPlex is a concentrate and must be stored in its original container or handled and stored as outlined above (please see "APPLICATION AND HANDLING"). **Do not allow AquaPlex to freeze; freezing may cause product separation.** Seller makes no warranty for performance of the product that has been frozen.

Keep container closed when not in use. In case of a spill, neutralize with limestone or baking soda before disposal. May deteriorate concrete.

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.

Container Disposal: Triple rinse all containers prior to disposal and then offer for recycling, puncture and dispose of in an approved manner, or dispose by incineration if allowed by local and state authorities. If disposal is by incineration, stay out of smoke.

GENERAL INFORMATION

AquaPlex is effective in controlling a broad range of algae including; *Chara*, *Spirogyra*, *Cladophora*, *Ulothrix* and *Oscillatoria*.

In addition, AquaPlex is effective in controlling rooted and floating aquatic plants such as *Hydrilla*, *Potamogeten sp.*, and Water Hyacinth.

The formulation of AquaPlex protects against the precipitation of copper with carbonates and bicarbonates in the treated water and results in increased time of exposure for **true**

residual activity. In addition, this formulation allows for application at any time - including overcast/cloudy conditions as well as **during night-time hours.** Water treated with AquaPlex may be used for swimming, fishing, drinking, livestock watering, and irrigation immediately after treatment. For best results, apply when livestock water consumption is low or watering area is not in use. AquaPlex effectively controls *Chara*, *Spirogyra*, *Cladophora*, *Ulothrix* and *Oscillatoria*; algae growth commonly found in livestock watering tanks, troughs, and ponds.

ALGAEICIDE APPLICATION

AquaPlex can be applied by simply pouring into the water, as a surface spray, or by injection. For effective control, the proper chemical concentration should be maintained for a minimum of three hours duration to assure adequate uptake. The application rates in the chart below are based on static or low flow conditions. When significant dilution occurs from inflow of untreated waters within the three-hour period the chemical may need to be metered. (See drip system application)

- Identify the algae growth present as one of the following; planktonic, filamentous, or *Chara*.
- Determine the surface area and average depth to be treated.
- Refer to the chart below to determine gallons of AquaPlex to apply per surface acre.

CHART 1

**Application Rates
Gallons per Surface Acre**

Algae Type	ppm Copper	Average Depth in Feet			
		1	2	3	4
Planktonic	0.2	1.0	2.2	3.2	4.3
Filamentous	0.2	1.0	2.2	3.2	4.3
<i>Chara</i>	0.4	2.2	4.3	6.5	8.6

For Planktonic algae and free floating filamentous algal mats, application rates should be based on treating the upper 3 - 4 feet of water where the algae is growing. If fish population is present and algae growth is heavy in treatment area, treat only 1/2 to 1/3 of the water body at a time to avoid potential fish kill by oxygen depletion. In areas of heavy growth, plan your treatment to avoid trapping fish in coves or enclosed areas.

Before application, dilute the AquaPlex with sufficient water to ensure even application to the affected area. For quickest results, apply when conditions are calm and sunny.

However, this product can be applied whenever weather allows or **during night time hours.** A hand or power sprayer may be used. Treat shoreline areas first and then continue treatment, as needed, into main water body.

For algaeicide application in waters used for livestock: For stock watering ponds, tanks, and troughs, apply 1/4 ounce of AquaPlex per 250 gallons of water (8 milliliters per 1,000 liters) to achieve the desired 0.4 PPM (mg/L) of copper for algae control. Product can be simply added to the water column as the residual control will allow for even distribution

through out the water column. Where existing algae mats are present at time of treatment, most effective control will be obtained by breaking up mats and/or evenly dispersing diluted AquaPlex over the algae mats. Apply AquaPlex as needed to control and prevent algae growth; more frequent applications may be needed in times of higher water temperatures.

HERBICIDE APPLICATION
For rooted and submerged plants

Control of many rooted and submerged plants such as *Hydrilla* and *Potamogeton* can be obtained from use of AquaPlex to give Copper concentrations at 0.4 - 1.0 ppm. Choose the application rate dependent upon the density and stage of growth and the water depth from the chart below.

Application Rates
Gallons per Surface Acre

Growth stage Relative Density	ppm Copper	Average Depth in Feet			
		1	2	3	4
(Low Density) Early Season	0.4	2.2	4.4	6.6	8.8
(Moderate Density) Mid Season	0.7	3.8	7.6	11.4	15.2
(Heavy Density) Late Season	1.0	5.4	10.8	16.2	21.6

Application rates for depths greater than 4 feet may be obtained by adding the rates above to give the proper depth. Do not exceed a copper concentration of 1.0 ppm copper in the treated water.

FOR WATER HYACINTH CONTROL

The following mixture can be used as a **control** method for water hyacinth and other floating aquatic vegetation (Effective eradication requires stronger rates and/or mixtures with other herbicides - please call for specific information).

Mix 1 gallon of AquaPlex per 7 gallons of water. Apply this solution as a coverage spray to thoroughly wet all exposed vegetation. In areas of heavy infestation, multiple applications may be required. Applications may be repeated after 7-day intervals. Non-ionic adjuvants should be used with this product to improve dispersion and/or adhesion.

DRIP SYSTEM APPLICATION FOR FLOWING WATER

AquaPlex should be applied as soon as algae or plants begin to interfere with normal or desired water uses. Heavy infestations and flows may cause poor chemical distribution resulting in unsatisfactory control. Under these conditions, continuous feed systems offer advantage.

Prior to treatment it is important to determine the water flow rates. In the absence of weirs, or flow determining devices for this information, water flow may be estimated as shown below.

Avg. Width X Avg. Depth X Velocity in feet/sec. X 0.9 = CFS(Cubic Feet/Second)

Velocity is the time it takes for a floating object to move a given distance. This measurement should be made as the average of at least three determinations taken at the treatment location.

Calculate the drip rate of AquaPlex from the chart below (based on heavy algae growth).

CFS	Water Flow Rate		AquaPlex drip rate	
	Gal./Min.	Qts./Hr.	ML/Min.	Oz./Min.
1	450	3.6	58	2.0
2	900	7.2	116	4.0
3	1350	10.8	170	6.0
4	1800	14.4	226	7.6
5	2250	18.0	284	10.0

Calculate the amount of AquaPlex needed to maintain the drip rate for a period of 4 hours by multiplying Qts./Hr. by 4, Ml/min. by 240, or Fl. Oz/Min. by 240. **This dosage will maintain the Copper level at 2.0 ppm for 4 hours (to be used as a general reference rate to control heavy algae growth). Effective control of most algae species can be obtained with Copper levels between .5 - 1.8 ppm maintained for 4 - 6 hours.** The chemical must be introduced at a point of turbulence.

Place the required amount of AquaPlex into a tank equipped with a needle valve and set the drip rate as required using a stop watch and a measuring tube. Readjust as required if flows change. Distance of control will vary. Treatment points should be determined in the field and placed at the required intervals for control. Periodic maintenance treatments may be required.

For Drip-system use in Livestock Watering Tanks: Tanks fed by a continuous flow of spring or well water may be equipped with a chemical drip system designed to meter-in AquaPlex based upon water flow rates. Systems should be adjusted to maintain a concentration of 0.4 PPM (mg/L) copper in incoming stock water. Pre-dilute AquaPlex 100:1 with water (a 1% solution) and calibrate metering valve to establish a drip rate of 1 fl. oz./min. per 10 gal./min. water flow rate or 40 ml/min. per 50 L/min. water flow rate. Treat continuously or as needed to control and prevent algae regrowth.

GENERAL TREATMENT NOTES

The following suggestions apply to the use of AquaPlex as an algacide or herbicide:

- The product works best at temperatures at or above 60 degrees F.
- Treat when growth first appears or nuisance is first noted.
- Apply in a manner to insure even distribution in the treatment area.
- Retreat as required. Allow 1 to 2 weeks between treatments.
- **Formula for water-column treatment: Gallons of AquaPlex needed X 50,000 ppm = Gallons of water to be treated X Desired ppm of treatment (from chart)**

Conversion factors: cubic feet X 7.48 = gallons

one acre/foot = 326,000 gallons (one acre = 43,560 square feet)

To calculate number of gallons or liters:

For square or rectangular bodies of water: L(ft.) x W(ft.) x D(ft.) x 7.5 = Gallons
L(m) x W(m) x D(m) x 1000 = Liters

For circular or elliptical bodies of water: L(ft.) x W(ft.) x D(ft.) x 5.9 Gallons
L(m) x W(m) x D(m) x 786 = Liters

LIMITED WARRANTY AND LIMITATION OF REMEDIES

Seller warrants that the product conforms to the chemical description and is reasonably fit for the purposes 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 not foreseeable to the seller. In no case shall the seller be liable for more than the cost of the 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 forgoing terms, which may not be varied.

Cheltec, Inc.
2215 Industrial Blvd.
Sarasota, Florida U.S.A. 34234
(941) 355-1045

ACCEPTED
with **COMMENTS**
in EPA Letter Dated:
OCT 30 2001

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

72536-1