

72536-1

12-15-99

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
72536-1

Date of Issuance:  
DEC 15 1999

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration

(under FIFRA, as amended)

Term of Issuance:  
Conditional

Name of Pesticide Product:  
AquaPlex

Name and Address of Registrant (include ZIP Code):

Denise De Lancy, President  
CHELTEC Incorporated  
2215 Industrial Boulevard  
Sarasota, FL 34234

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 reregistration of your product under FIFRA section 4.

2. Make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. "72536-1.

Signature of Approving Official:

Cynthia Giles-Parker, Product Manager 22  
Fungicide Branch, Registration Division  
(7505C)  
/5/

Date:

DEC 15 1999

3. Submit one copy of the revised final printed label for the record 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.

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

)  
)  
Enclosure

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ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

DEC 15 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
72536-1

# 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%
INERT INGREDIENTS.....	80.2%
Total.....	100.0%

\* metallic copper equivalent 5.4%

## KEEP OUT OF REACH OF CHILDREN DANGER

### FIRST AID

- If in Eyes:** If eye contact occurs, flush with potable water for a minimum of 15 minutes and immediately CALL A PHYSICIAN.
- If on Skin:** If contact occurs, wash thoroughly with soap and water. Get medical attention.
- If Inhaled:** Remove victim to fresh air. If not breathing give artificial respiration, preferable mouth to mouth. Get medical attention.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

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 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 Cheltec, 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

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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.

E.P.A. REG. # \_\_\_\_\_

E.P.A. EST. # \_\_\_\_\_

NET CONTENTS: 2.5 GALLONS (9.46 LITERS)

5048

**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**

**Storage:** Do not contaminate water, food, or feed by storage or disposal. 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*, *Potamogeton 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.

**ALGAECIDE 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)

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- 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 infestation is heavy, 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.

**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).

Water Flow Rate		AquaPlex drip rate		
CFS	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.

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## GENERAL TREATMENT NOTES

The following suggestions apply to the use of AquaPlex as an algaecide 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)*

## 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.

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