

PM 22

67690-9

8-5-99

1 of 8



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

AUG 5 1999

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Kelly White
Agent for SePRO Corp
Jellinek, Schwartz & Connolly, Inc.
1525 Wilson Boulevard, Suite 600
Arlington, VA 22209

Dear Ms. White:

Subject: SePRO Corporation/Captain Liquid Copper Algacide
EPA Registration 67690-9
Amendment - Revised Label
Your Submission dated June 24, 1999

The Amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided the following change is made:

1. Under FIRST AID, change IF IN EYES statement to read "Hold eyes open and flush eyes with a gentle steady stream of water for 15 minutes. Get medical attention".
2. Under FIRST AID, change the fifth sentence to read, "Wear goggles, face shield or safety glasses, protective clothing and rubber gloves". ADD, "prolonged or frequently repeated skin contact may cause allergic reactions in some individuals".
3. MOVE the second paragraph under PRECAUTIONARY STATEMENTS referring to plant injury to FOLLOW the ENVIRONMENTAL HAZARDS section.
4. Replace the current ENVIRONMENTAL HAZARDS statement with the following:
"Fish toxicity is dependent on the hardness of the water. In soft water, trout and other species of fish may be killed at application rates recommended on this label. Do not use in water containing trout or other sensitive species if the carbonate hardness of water is less



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contains at least 50% recycled fiber

than 50 ppm. Fish toxicity generally decreases when the hardness of water increases. Consult State Fish and Game Agency before applying this product to public waters. Do not treat more than one-half of lake or pond at one time to avoid depletion of oxygen levels due to decaying vegetation."

5. Under GENERAL INFORMATION (line 5), change "Nautique" to "Captain".
6. On page 4 in the formula for calculating waterflow, correct to read "feet/second".
7. Under STORAGE AND DISPOSAL, move the first sentence under Product disposal Instructions to appear above the heading STORAGE INSTRUCTIONS and remove the second sentence completely.
8. Place PESTICIDE DISPOSAL information immediately below the Storage Instructions Information.

Submit (1) copy of the Final printed label prior to releasing the product for shipment.

Sincerely,



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

Enclosure:

19-May-98
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[CAPTAIN 1 GALLON BOTTLE LAMINATED BOOKLET]

[FRONT PANEL]

(logo) SePRO

CPSL8317

Captain*
Liquid Copper Algacide

For use in potable water sources, lakes, rivers, reservoirs, and ponds, slow-flowing or quiescent water bodies, crop and non-crop irrigation systems (canals, laterals, and ditches), fish, golf course, ornamental, swimming, and fire ponds, and fish hatcheries

Active Ingredient:
Copper Carbonate* 15.9%
Inert Ingredients: 84.1%
Total 100.00%
*Metallic copper equivalent, 9.1%

Keep Out of Reach of Children

DANGER PELIGRO

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

Statement of Practical Treatment

If in eyes: Flush with plenty of water. Call a physician.
If swallowed: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Avoid alcohol. Do not give anything by mouth to an unconscious person.
If on skin: Wash with plenty of soap and water. Get medical attention.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Please refer to label booklet for additional precautionary statements, directions for use, and storage and disposal information.

In case of emergency endangering health or the environment involving this product, call collect 317-580-8282.

EPA Reg. No. 67690-9

EPA Est. No. 44616-MO-1
SC-83-0011

*Trademark of SePRO Corporation
SePRO Corporation • Carmel, IN 46032 U.S.A.

Algacide

Net Contents 1 gal

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

AUG 5 1999

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

67690-9

T3N/SL*9/LABEL/US/****/1

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19-May-98
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[CAPTAIN 1 GALLON BOTTLE LAMINATED BOOKLET]

[LABEL BOOKLET TEXT]

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage and skin irritation. Due to corrosive nature, may be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Do not apply undiluted solution of this product directly to, or otherwise permit it to come into contact with any desirable plants as injury may result. Wash spray equipment thoroughly before and after each application.

Environmental Hazards

Depending on the hardness of the water, this product may be toxic to fish. Do not use this product in water having less than 50 ppm carbonate hardness.

Directions for Use

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

General Information

Captain Aquatic Algaecide is a chelated copper formulation that is effective in controlling a broad range of algae including: Chara, Cladophora, Spirogyra, Ulothrix, Vaucheria, Microcystis, and Oscillatoria. This product has also been proven effective in controlling the rooted aquatic plant, Hydrilla verticillata. The ethanolamines in this product prevent the precipitation of copper with carbonates and bicarbonates in the water. The application site is defined by this label as the specific location where Nautique is applied. In slow moving and flowing canals and rivers, the application site is defined by this label as the target location for plant control.

No Water Use Restrictions

Waters treated with this product may be used for swimming, fishing, drinking, livestock watering or irrigating turf, ornamental plants or crops immediately after treatment.

Surface Spray/Injection Algaecide Application

For effective control, proper chemical concentration should be maintained for a minimum of three hours contact time. The application rates in the chart are based on static or minimal flow situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three-hour period, chemical may have to be metered in.

Identify the algae growth present as one of the following types: Planktonic (suspended), Filamentous (mat-forming), or Chara/Nitella.

Determine the surface acreage (1 acre = 43,560 sq. ft.) and average depth of infested area. Refer to chart below to determine gallons of this product to apply per surface acre.

**Application Rates
Gallons per Surface Acre**

Algae Type	Ppm	Depth in Feet			
		1	2	3	4
Planktonic	0.2	0.6	1.2	1.8	2.4
Filamentous ¹	0.2	0.6	1.2	1.8	2.4
Chara/Nitella	0.4	1.2	2.4	3.6	4.8

¹For dense infestations of filamentous algae, it is recommended that use rates be doubled to 0.4 ppm

For planktonic (suspended) algae and free-floating filamentous algae mats, application rates should be based on treating only the upper 3 to 4 feet of water where algae is growing. Under conditions of heavy infestation treat only 1/3 to 1/2 of the water body at a time to avoid fish suffocation caused by oxygen depletion from decaying algae. Before applying, dilute the required amount of this product with enough water to ensure even distribution with the type of equipment being used. For most effective results apply under calm and sunny conditions when water temperature is at least 60 degrees F. Break up floating algae mats before spraying or while application is being made. Use hand or power sprayer adjusted to rain-sized droplets. Spray shoreline areas to avoid trapping fish.

Herbicide Application (for Hydrilla Control)

Control of Hydrilla verticillata can be obtained from copper concentrations of 0.4 to 1.0 ppm resulting from this product's treatment. Choose the application rate based upon stage and density of Hydrilla growth and respective water depth from the chart below.

**Application Rates
Gallons per Surface Acre**

Growth Stage/Relative Density	ppm Copper	Depth in Feet					
		1	2	3	4	5	6
Early Season/Low Density	0.4	1.2	2.4	3.6	4.8	6.0	7.2
	0.5	1.5	3.0	4.5	6.0	7.5	9.0
	0.6	1.8	3.6	5.4	7.2	9.0	10.8
Midseason/Moderate Density	0.7	2.1	4.2	6.3	8.4	10.5	12.6
	0.8	2.4	4.8	7.3	9.6	12.0	14.4
Late Season/High Density	0.9	2.7	5.4	8.1	10.8	13.5	16.2
	1	3.0	6.0	9.0	12.0	15.0	18.0

¹ Application rates for depths greater than six feet may be obtained by adding the rates given for the appropriate combination of depths. Application rates should not result in excess of 1.0 ppm copper concentration within treated water.

Diquat Tank Mix

On waters where enforcement of use restrictions for recreational, domestic and irrigation use are acceptable, the following mixture can be used as an alternative Hydrilla control method. Tank mix 3-1/3 gallons of this product with 2 gallons of Diquat. Apply mixture at the rate of 5-1/3 gallons per surface acre. Dilute with at least 9 parts water and apply as a surface or underwater injection. Observe all cautions and restrictions on the labels of both products used in this mixture.

Drip System Application

For Use in Potable Water and Irrigation Conveyance Systems

This product should be applied as soon as algae or Hydrilla begins to interfere noticeably with normal delivery of water (clogging of lateral headgates, suction screens, weed screens, and siphon tubes). Delaying treatment could perpetuate the problem causing massing and compacting of plants. Heavy infestations and low flow may cause pool chemical distribution resulting in unsatisfactory control. Under these conditions increasing water flow rate during application may be necessary.

Prior to treatment it is important to accurately determine water flow rates. In the absence of weirs, orifices, or similar devices which give accurate waterflow measurements, volume of flow may be estimated by the following formula:

Average Width (feet) x Average Depth x Velocity* (feet/second) x 0.9 = Cubic Feet per Second (C.F.S.)

*Velocity is the time it takes a floating object to travel a given distance. Dividing the distance traveled (feet) by the time (seconds) will yield velocity (feet/second). This measurement should be repeated at least three times in the intended application site and then average

After accurately determining the water flow rate in C.F.S. or gallons/minute, find the corresponding drip rate in the chart below.

Water Flow Rate		Chemical Drip Rate		
C.F.S.	Gal./Min.	Qt./Hr.	ml/Min.	Fl. Oz./Min.
1	450	1	16	0.5
2	900	2	32	1.1
3	1350	3	47	1.6
4	1800	4	63	2.1
5	2250	5	79	2.7

Calculate the amount of this product needed to maintain the drip rate for a period of 3 hours by multiplying Qt./Hr. x 3; ml/Min. x 180; or Fl. Oz./Min. x 180. Dosage will maintain 1.0 ppm Copper concentration in the treated water for the 3 hour period. Introduction of the chemical should be made in the channel at weirs or other turbulence-creating structures to promote the dispersion of chemical.

Pour the required amount of this product into a drum or tank equipment with a brass needle valve and constructed to maintain a constant drip rate. Use a stopwatch and appropriate measuring container to set the desired drip rate. Readjust accordingly if flow rate changes during the 3 hour treatment period. This product can also be applied by metering pumps that adjust to flow changes in the canal. Distance of control obtained down the waterway will vary depending upon density of vegetation growth. Periodic maintenance treatments may be required to maintain seasonal control.

General Treatment Notes

The following suggestions apply to the use of this product as an algacide or herbicide in all approved use sites. For optimum effectiveness:

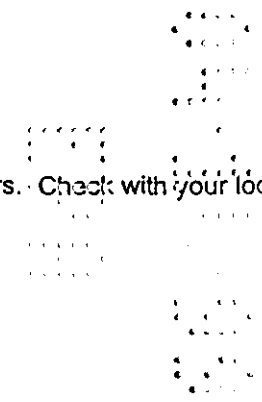
- Apply early in the day under calm, sunny conditions when water temperatures are at least 60 deg. F.
- Treat when growth first begins to appear or create a nuisance, if possible.
- Apply in a manner that will ensure even distribution of the chemical within the treatment area.
- Re-treat areas if regrowth begins to appear and seasonal control is desired. Allow one to two weeks between consecutive treatments.
- Allow seven to ten days to observe the effects of treatment (bleaching and breaking apart of plant material).

Notice

Read and follow label directions carefully.
Contents may cause bluing where marcite has been etched.

Permits

Some states may require permits for the application of this product to public waters. Check with your local authorities.



Storage and Disposal

Storage Instructions:

This product should be stored only in the original container and placed in a cool and dry locked storage area. Keep away from other pesticides, fertilizer, food, and feed to prevent cross-contamination. In case of spillage, dilute with water and wash up with water.

Product Disposal Instructions:

Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal:

Do not reuse empty container. Triple rinse. Then offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 local State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Warranty Disclaimer

SePRO Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **SePRO Corporation makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.**

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of SePRO Corporation or the seller. All such risks shall be assumed by the buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at SePRO Corporation's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

SePRO Corporation shall not be liable for losses or damages resulting from handling or use of this product unless SePRO Corporation is promptly notified of such loss or damage in writing. In no case shall SePRO Corporation be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employees or sales agent of SePRO Corporation or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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19-May-98
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[BASE PANEL]

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Algaecide

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