



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

EPA Reg. Number:  
41246-5

Date of Issuance:  
JAN 25 2002

Term of Issuance:  
Conditional

Name of Pesticide Product:  
Bayfloc 9000

NOTICE OF PESTICIDE:  
  X   Registration  
       Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Ms. Sharon Bailey Lewis  
Bay Chemical and Supply Company  
P.O. Box 1160  
Odem, TX 78370

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 (FIFRA).

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 Section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 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. 41246-5."
- b. The sentence: " The metallic copper residual must not exceed 1 ppm (4 ppm copper sulfate pentahydrate)." must be made more prominent by using bold letters.
- c. Correct the typo "404m/min" to "404 ml/min".

3. Submit one copy of the revised final printed label before releasing the product for shipment.

Signature of Approving Official:

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide Branch

Date

JAN 25 2002

# BAYFLOC 9000

**KEEP OUT OF REACH OF CHILDREN  
DANGER!**

## FIRST AID

### If In Eyes:

- Hold eyes open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lens, if present, after first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for 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 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 the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

### If Inhaled:

- Move person to fresh air.
- If 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 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 1-800-522-1037 for emergency medical treatment information.

## NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

Consult MSDS for additional information.

Maximum use for potable water application is 400 milligrams per liter. (1 ppm metallic copper equivalent)

Product is toxic to fish UNLESS used specifically according to directions. See side panel for specific pesticide use directions.

SHIP TO

Active ingredient:  
Copper sulfate pentahydrate\*  
Inert ingredient:  
Total:

1.00%  
99.00%  
100.00%

\*COPPER AS METALLIC NOT LESS THAN 0.25%

Density  
CAS #7758-89-3

10.85 pounds per gallon

## PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

# DANGER!

**CORROSIVE:** Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling. Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, protective eyewear, and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Direct application of Bayfloc 9000 to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Fish toxicity generally decreases when the hardness of water increases. Do not contaminate water by cleaning of equipment or disposal of wastes. 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 with these counties:

California	Solano Grass Slackwater Darter	EPA/ES-85-13 EPS/ES-85-04	Solano Lawrence Wayne Hancock Claborne Hawkins Sullivan
Tennessee	Freshwater Mussels	EPA/ES-85-07	Lauderdale Limestone Madison Grayson Smyth Scott Washington Lee
Alabama	Slackwater Darter	EPS/ES-85-05	
Virginia	Freshwater Mussels	EPS/ES-85-06	

\*\*\*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.**

This product manufactured by  
Bay Chemical and Supply Company  
Odem, Texas

EPA REG. NO. 41246  
EPA EST. NO. 41246-TX-001

For emergency information on this product, call 1-800-522-1037

Environmentally Hazardous Substances, liquid, n.o.s. (Cupric sulfate, Aluminum sulfate) 9, UN 3082, PG III

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**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 requirements specific to your State, consult the agency responsible for pesticide regulations.

**Storage and Disposal**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open burning and dumping is prohibited. Do not re-use empty container.

**STORAGE:** Keep pesticide in original container. Do not put concentrate or dilutions of concentrate on food or drink containers.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue 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:** Empty drums in accordance with use directions. Rinsal and offer for reconditioning or triple rinse (or equivalent). Then offer for reconditioning or recycling. Consult federal, state or local disposal authorities for approved alternative methods.

**GENERAL INSTRUCTIONS FOR USE**

Bayfloc 9000 is a flocculant-algicide blended product which contains Copper Sulfate as the active ingredient to inhibit algae growth. Bayfloc 9000 contains aluminum sulfate which is used to coagulate suspended and/or colloidal particles in a liquid to affect a liquid-solid separation. Bayfloc 9000 is best used to inhibit algae regrowth inside a water plant, once the initial growth has been removed.

Bayfloc 9000 is intended exclusively for use in impounded raw water which is being immediately treated for public consumption inside the water plant. It is not intended for addition to lakes, reservoirs, or holding ponds. NOTE: USEPA Lead and Copper Rule maximum is 1.3 ppm. The metallic copper residual must not exceed 1 ppm (4 ppm copper sulfate pentahydrate). Do not exceed 400 ppm Bayfloc 9000. Bayfloc 9000 is injected in the first section of the water treatment plant. Normal injection locations include the rapid mix chamber or any similar device for mixing coagulant chemicals. This chamber then feeds the dosed water into the clarifiers or settling basins of the water plant. Bayfloc 9000 can also be injected at various locations along the transfer pipe which delivers raw water into the water plant. Bayfloc 9000 is not to be injected into potable water impoundments located outside the water plant, such as lakes, ponds, or reservoirs.

**CALCULATIONS FOR THE AMOUNT OF BAYFLOC 9000 TO BE USED:** Calculations for the amount of water volume is based on the municipalities million gallons per day (MMG) water usage. Jar testing of the raw water to be treated will indicate the optimum dosage of the aluminum sulfate flocculant in parts per million (ppm) which is the primary function of Bayfloc 9000. Each ppm flocculant delivers 0.01 ppm copper sulfate pentahydrate. The parts per million indicated in testing is multiplied by 1% (0.01) to obtain the parts per million copper sulfate pentahydrate. The 0.01 ppm copper salt (25.45 wt% metallic copper) contains 0.0025 ppm elemental copper for suppressing algae growth inside the water plant. For example, if jar testing shows that 50 ppm of flocculant is the optimum dosage for coagulation, then Bayfloc 9000 will also deliver 0.50 ppm of copper sulfate pentahydrate. Bayfloc 9000 thus provides algae inhibition by the copper sulfate as its secondary function. The 0.50 ppm of copper salt (25.45 wt % metallic copper) contains 0.127 ppm elemental copper for suppressing algae.

**MAXIMUM USE FOR POTABLE WATER APPLICATION IS 16 MILLIGRAMS PER LITER (1 ppm metallic copper equivalent)**

**COPPER SULFATE REQUIRED FOR TREATMENT OF DIFFERENT GENERA OF ALGAE**

The genera of algae listed below are commonly found in waters of the United States. Always consult State Fish and Game Agency before applying this product to municipal waters.

ORGANISM	0.25 - 0.50 ppm	0.5 - 1.0 ppm	1.0 - 1.5 ppm	1.5 - 2.0 ppm	
Cyanophyceae (Blue-green)	Anabaena	Cylindrocapsa	Nostoc	Calothrix	
	Anacystis	Oscillatoria	Phormidium	Symplona	
	Aphanizomenon	Plectonema			
	Gloeotrichia				
	Gomphosphaeria				
	Polycystis				
	Rivularia				
	Closterium	Botryococcus	Chlorella	Ankistrodesmus	
	Hydrodictyon	Cladophora	Crucigenia	Chara	
	Spirogyra	Coelastrum	Desmidiium	Nitella	
Chlorophyceae (Green)	Ulothrix	Draparnaldia	Golenkinia	Scenedesmus	
		Enteromorpha	Oocystis		
		Gloeocystis	Palmella		
		Microspora	Pithophora		
		Tribonema	Staurostrum		
		Zygnema	Tetraedron		
	Diatomaceae (Diatoms)	Asterionella	Gomphonema	Achnanthes	
		Fragilaria	Nitzschia	Cymbella	
		Melosira	Stephanodiscus	Nudum	
		Navicula	Synedra		
Protozoa (Flagellates)	Tabellaria				
	Dinobryon	Ceratium	Chlamydomonas	Eudorina	
	Synura	Cryptomonas	Hawmatococcus	Pandorina	
	Uroglena	Euglena	Peridinium		
	Volvox	Glenodinium			
		Mallomonas			

0.25 - 0.50 ppm CuSO4 = 50.5 - 101 ml/min per MMgpd\*  
1.0 - 1.5 ppm CuSO4 = 202 - 303 ml/min per MMgpd\*

0.50 - 1.0 ppm CuSO4 = 101 - 202 ml/min per MMgpd\*  
1.5 - 2.0 ppm CuSO4 = 303 - 404 ml/min per MMgpd\*

\*Calculations based on 50 ppm of Bayfloc 9000 with 1% copper sulfate.

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

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**  
**JUN 25 2002**

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