



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number: 41246-6

Date of Issuance:

APR 8 2003

Terms of Issuance: Conditional

Name of Pesticide Product: BAYFLOC 9100

NOTICE OF PESTICIDE:

XX Registration
Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Bay Chemical and Supply Co.
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.

On the basis of information furnished by the registrant, this product is conditionally registered under the Federal Insecticide, Fungicide and Rodenticide Act as amended. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency.

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. 41246-6"
B. Put the statements "Keep Out of Reach of Children" and "DANGER" above the First Aid block, not inside the block.
C. In the text below the heading "Hazardous to Humans and Domestic Animals" replace the words "protective eyewear" with "goggles or face shield."
D. The heading "Storage and Disposal" must be in capital letters and in at least 12 point type.
E. In the text below "STORAGE AND DISPOSAL" change the first line to read "Do not contaminate water, food or feed by storage or disposal". Change the subheading "STORAGE" to "PESTICIDE STORAGE."
3. Submit one copy of the revised final printed label before releasing the product for shipment.

A copy of your label stamped "Approved with comments" is included for your records.

Signature of Approving Official:

[Handwritten signature of Dennis McNeilly]

Dennis McNeilly, Acting Product Manager (22)

Date:

APR - 8 2003

BAYFLOC 9100

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 150 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* 1.00%

Inert Ingredient: 99.00%

Total: 100.00%

*COPPER AS METALLIC NOT LESS THAN 0.25%

Density 10.85 pounds per gallon
CAS #7758-99-8

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

PLEASE NOTEBefore 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

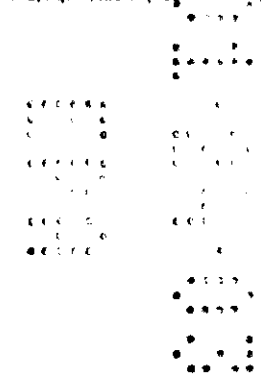
For emergency information on this product, call 1-800-522-1037

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

ACCEPTED
with **COMMENTS**
In EPA Letter Dated:
APR 8 2003

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

41246-6



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 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: Empty drums in accordance with use directions. Recycle 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 9100 is a flocculant-algicide blended product which contains Copper Sulfate as the active ingredient to inhibit algae growth. Bayfloc 9100 contains aluminum sulfate and cationic polymer which is used to coagulate suspended and/or colloidal particles in a liquid to affect a liquid-solid separation. Bayfloc 9100 is best used to inhibit algae regrowth inside a water plant, once the initial growth has been removed chemically or physically.

Bayfloc 9100 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 150 ppm Bayfloc 9100.

Bayfloc 9100 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 9100 can also be injected at various locations along the transfer pipe which delivers raw water into the water plant. Bayfloc 9100 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 9100 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/polymer flocculant in parts per million (ppm) which is the primary function of Bayfloc 9100. 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 9100 will also deliver 0.50 ppm of copper sulfate pentahydrate. Bayfloc 9100 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 150 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	Cylindrospermum	Nostoc	Ceothrix	
	Anacystis	Oscillatoria	Phormidium	Symploca	
	Aphanizomenon	Plectonema			
	Gloeotrichia				
	Gomphosphaeria				
	Polycystis				
	Rivularia				
	Chlorophyceae (Green)	Closterium	Botryococcus	Chlorella	Ankistrodesmus
		Hydrodictyon	Cladophora	Crucigenia	Chara
		Spirogyra	Coleostrum	Desmidium	Nitella
Ulothrix		Draparnaldia	Golenkinia	Scenedesmus	
		Enteromorpha	Oocystis		
		Gloeocystis	Palmella		
		Microspora	Pithophora		
		Tribonema	Staurastrum		
Diatomaceae (Diatoms)	Asterionella	Zygnema	Tetraedron		
	Fragilaria	Gomphonema	Achnanthes		
	Melosira	Nitzschia	Cymbella		
	Navicula	Stephanodiscus	Nudum		
		Synedra			
		Tabellaria			
Protozoa (Flagellates)	Dinobryon	Ceratium	Chlamydomonas	Eudorina	
	Synura	Cryptomonas	Hawmalococcus	Pandorina	
	Uroglana	Euglena	Peridinium		
	Volvox	Glenodinium			
		Mallomonas			

0.25 - 0.50 ppm CuSO4 = 50.5 - 101ml/min per MMgpd*

1.0 - 1.5 ppm CuSO4 = 202 - 303 ml/min per MMgpd*

0.50 - 1.0 ppm CuSO4 = 101 - 202ml/min per MMgpd*

1.5 - 2.0 ppm CuSO4 = 303 - 404ml/min per MMgpd*

*Calculations based on 50 ppm of Bayfloc 9100 with 1% copper sulfate.

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NOTICE: BAY CHEMICAL AND SUPPLY COMPANY warrants that this product in its unopened package conforms to the chemical description on the label. THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller.