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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Sharon Bailey Lewis
EHS Manager
Bay Chemical & Supply Co.
P.O. Box 1160
Odem, TX 78370

JUL 15 2004

Subject: Bayfloc 9100
EPA Reg. No. 41246-6
Amendment dated April 13, 2004

Dear Ms Lewis:

The alternate Confidential Statement of Formula (CSF) dated 4/13/04 referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF will be added to the regulatory file.

The Agency's records are being amended to include the alternate brand name of Bayfloc 9230 for this product.

The amended master label referred to above, submitted July 12, 2004 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following change is made:

- 1. Put the Precautionary Statements box below the First Aid box.

One copy of the label stamped "Accepted with comments" is enclosed for your records. Please submit one copy of each of the final printed sublabels before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

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

Enclosure

2/5

5302 County Road 2047
Odem, TX 78380
24-Hour Phone: 800-522-1037

BAYFLOC 9100

Active Ingredient:		
Copper sulfate pentahydrate*		1.00%
Inert Ingredients:		<u>99.00%</u>
Total:		100.00%

*COPPER AS METALLIC NOT LESS THAN 0.25%

Density

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, goggles or face shield, and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

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 reactions.

Lot Number: 999999
Net Weight: 999 pounds

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

JUL 15 2004

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

41246-6

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 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.

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.

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.

D.O.T. CLASSIFICATION

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

SHIP TO

**BAYFLOC 9100 - Side Panel
ENVIRONMENTAL HAZARDS**

This product is toxic to fish-UNLESS used specifically according to directions. Direct application of Bayfloc 9100 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 within these counties:

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
			Smyth
			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.**

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

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

PESTICIDE 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. Reseal 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 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**.

GENERAL INSTRUCTIONS FOR USE (continued)

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 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.

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	Calothrix
	Anacystis	Oscillatoris	Phormidium	Symploca
	Aphanizomenon	Plectonema		
	Gloeotrichia			
	Gomphosphaeria			
	Polycystis			
	Rivularia			
	Closterium	Botryococcus	Chlorella	Ankistrodesmus
	Hydrodictyon	Cladophora	Crucigenia	Chara
	Chlorophyceae (Green)	Spirogyra	Coelastrum	Desmidium
Ulothrix		Draparnaldia	Golenkinia	Scenedesmus
		Enteromorpha	Oocystis	
		Gloeocystis	Palmella	
		Microspora	Pithophora	
		Tribonema	Staurastrum	
		Zygnema	Tetraedron	
		Gomphonema	Achnanthes	
		Nitzschia	Cymbella	
		Stephanodiscus	Nudum	
Diatomaceae (Diatoms)	Navicula	Synedra		
		Tabellaria		
	Dinobryon	Ceratium	Chlamydomonas	Eudorina
	Synura	Cryptomonas	Hawmatococcus	Pandorina
	Uroglena	Euglena	Peridinium	
Protozoa (Flagellates)	Voivox	Glenodinium		
		Mallomonas		
0.25 - 0.50 ppm CuSO4 = 50.5 - 101 ml/min per MMgpd*		0.50 - 1.0 ppm CuSO4 = 101 - 202 ml/min per MMgpd*		
1.0 - 1.5 ppm CuSO4 = 202 - 303 ml/min per MMgpd*		1.5 - 2.0 ppm CuSO4 = 303 - 404 ml/min per MMgpd*		

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

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 and buyer assumes all risk of any such use.