

83918-5

08/26/2011

1/4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

General Chemical, LLC
c/o Wendy Brescia
90 East Halsey Rd
Parsippany, NJ 07054

AUG 26 2011

Subject: Clar + Ion CS4
EPA Reg No. 83918-5
Decision No. 453218
Submission date: July 20, 2011
Application for Pesticide Notification (PRN 98-10)

Dear Ms Brescia:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The Agency acknowledges the change in primary brand name from "Bayfloc 9000" to "Clar + Ion CS4."

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Dominic Schuler at (703) 347-0260 or via email at schuler.dominic@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish". The signature is written in a cursive style and is positioned above the typed name.

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division (7504P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number General Chemical/83918-5	2. EPA Product Manager Tony Kish	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) General Chemical/Bayfloc 9000	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Wendy Brescia c/o General Chemical 90 East Halsey Road Bayonne, NJ 07004 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____	

NOTIFICATION
AUG 26 2011

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Change Bayfloc 9000 to Clar+Ion CS4. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 55-gal, 250-gal		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Wendy Brescia	Title Shared Services Analyst	Telephone No. (Include Area Code) 973 515-1843
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Shared Services Analyst	
4. Typed Name Wendy Brescia	5. Date Jul 20, 2011	



5302 County Road 2047
Odem, TX 78380

Certified to NSF/ANSI
Standard 60

Clar+Ion[®] CS4

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.

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.

Lot Number: OD9091109

Net Weight: 600 pounds

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 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

D.O.T. CLASSIFICATION

UN 3264, Corrosive liquid, acidic, inorganic, n.o.s. (Cupric sulfate, Aluminum sulfate) 8, PG III

SHIP TO

USDA - APHIS
22675 North Moorefield Road
Building 6407
Edinburg, TX 78541

NOTIFICATION

AUG 26 2011

3/4

CLAR+ION CS4 - Side Panel

ENVIRONMENTAL HAZARDS

This product is toxic to fish UNLESS used specifically according to directions. Direct application of CLAR+ION CS4 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
	Freshwater Mussels	EPA/ES-85-07	Hancock
			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

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

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: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Empty drums in accordance with use directions. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Reseal and offer for reconditioning or recycling. Consult federal, state or local disposal authorities for approved alternative methods.

GENERAL INSTRUCTIONS FOR USE

CLAR+ION CS4 is a flocculant-algicide blended product which contains Copper Sulfate as the active ingredient to inhibit algae growth. CLAR+ION CS4 contains aluminum sulfate which is used to coagulate suspended and/or colloidal particles in a liquid to affect a liquid-solid separation. CLAR+ION CS4 is best used to inhibit algae regrowth inside a water plant, once the initial growth has been removed chemically or physically. CLAR+ION CS4 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 CLAR+ION CS4.

GENERAL INSTRUCTIONS FOR USE (continued)

CLAR+ION CS4 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. CLAR+ION CS4 can also be injected at various locations along the transfer pipe which delivers raw water into the water plant. CLAR+ION CS4 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 CLAR+ION CS4 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 CLAR+ION CS4. 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 CLAR+ION CS4 will also deliver 0.50 ppm of copper sulfate pentahydrate. CLAR+ION CS4 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			
Chlorophyceae (Green)	Gomphosphaeria			
	Polycystis			
	Rivularia	Botryococcus	Chlorella	Ankistrodesmus
	Closterium	Cladophora	Crucigenia	Chara
	Hydrodictyon	Coelastrum	Desmidiium	Nitzella
	Spirogyra	Draparnalia	Golenkia	Scenedesmus
	Ulothrix	Enteromorpha	Oocystis	
		Gloeocystis	Palmella	
		Microspora	Pithophora	
		Tribonema	Staurastrum	
Diatomaceae (Diatoms)	Asterionella	Zygnema	Tetraedron	
	Fragilaria	Gomphonema	Achnanthes	
	Melosira	Nitzschia	Cymbella	
	Navicula	Stephanodiscus	Nudum	
Protozoa (Flagellates)		Synedra		
		Tabellaria		
	Dinobryon	Ceratium	Chlamydomonas	Eudorina
	Synura	Cryptomonas	Hawmatococcus	Pandorina
	Euglena	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 CLAR+ION CS4 with 1% copper sulfate.

NOTICE: GENERAL CHEMICAL, LLC 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.

EPA REG. NO. 83918-5

EPA EST. NO. 83918-TX-001

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