

U.S. Environmental Protection Agency

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

Date of Issuance:

83918-6

JUL 2 7 2011

Term of Issuance: Unconditional

Name of Pesticide Product:

CLAR+ION 9100

NOTICE OF PESTICIDE:

X Registration
X Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

General Chemical LLC 90 East Halsey Road Parsippany, NJ 07054 Mailed to:

Wendy Brescia

Paralegal & Shared Services Analyst

General Chemical Corp. GT Technologies Inc.

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. 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.

EPA received a label amendment request submitted by email on July 20, 2011. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistation Eligibility Decision for coppers have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

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Signature of Approving Official:

Date:

JUL 2 7 2011

Tony Kish, Product Manager (22)

Fungicide Branch/Registration Division/OPP/OCSPP (7504P)

EPA Form 8570-6

Notice of Pesticide Reregistration CLAR+ION 9100 EPA Reg. No. 83918-6 Page 2 of 2

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

The basic Confidential Statement of Formula (CSF) dated 5/20/2010 referred to above, submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. This CSF supersedes all CSFs previously accepted for this product.

If you have any questions or comments regarding this letter, please contact Robert Westin at (703) 305-5721 or via e-mail at westin.robert @epa.gov.

Enclosure:

Label stamped "Accepted"
PRB Label Review dated 8/26/2010
Acute Toxicity Review DP357142 dated 10/9/2008
Product Chemistry Review DP380938 dated 8/12/2010

CLAR+ION 9100

ACCEPTED JUL 2 7 2011 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pestacide registered under EPA Reg. No. 9

Active ingredient: Copper sulfate pentahydrate* (CAS # 7758-99-8)......1.0% Other ingredients:.....99.0% **TOTAL:**

*METALLIC COPPER EQUIVALENT, 0.25%

Density

10.85 pounds per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID					
If in eyes:	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 					
If inhaled:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person. 					
•	duct container or label with you when calling a poison control center or doctor, or atment. You may also contact 1-800-424-9300 for emergency medical treatment information.					

PRECAUTIONARY STATEMENTS HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. For applications in waters detined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in these waters.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, and other handlers must wear: long-sleeve shirt, long pants, shoes and socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

Consult MSDS for additional information

Maximum use for potable water application is 0.307 milliliters product 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.

Manufactured by: General Chemical, LLC 5302 County Road 2047 Odem, TX 78380 EPA REG. NO. 83918-6 EPA EST. NO. 83918-TX-001

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. Do not contaminate water whne disposing of equipment wash waters or rinsate.

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 any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

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 in 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. Open burning and dumping is prohibited. If these wastes cannot be disposed of 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 HANDLING: 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 ten 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 9100 is a flocculant-algicide blended product which contains Copper Sulfate as the active ingredient to inhibit algae growth. CLAR+ION 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. CLAR+ION 9100 is best used to inhibit algae regrowth inside a water plant, once the initial growth has been removed chemically or physically. CLAR+ION 9100 is intended exclusively for use in impounded raw water which is being immediately treated for public consumption inside the water plant. Do not add to lakes, reservoirs, or holding ponds.

NOTE: USEPA Lead and Copper Rule maximum is 1.3 ppm. Do not exceed 2 ppm copper sulfate pentahydrate (See attached table).

CLAR+ION 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. CLAR+ION 9100 can also be injected at various locations along the transfer pipe which delivers raw water into the water plant. CLAR+ION 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 CLAR+ION 9100 TO BE USED: Calculations for the amount of water volume is based on the municipality's 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 CLAR+ION 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 CLAR+ION 9100 will also deliver 0.50 ppm of copper sulfate pentahydrate. CLAR+ION 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 0.307 MILLILITER OF PRODUCT PER LITER OF WATER (1 ppm metallic copper equivalent).

OF ALGAE ers.	2.0 PPM	loca	Ankistrodesmus Chara Nitella Scenedesmus		ina orina	***
COPPER SULFATE PENTAHYDRATE 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.	1.5	Calothrix Symploca	Ankista Chara Nitella Scene		Eudorina Pandorina	oer MMgpd
	1.0 – 1.5 PPM	Nostoc Phormidium	Chlorella Crucigenia Desmidium Golenkinia Oocystis Palmella Pithophora Staurastrum	Achnanthes Cymbella Nudum	Chlamydomonas Hawmatococcus Peridinium	0.50 - 1.0 ppm CuSO4.5H2O – (101 - 202 ml/min per MMgpd*) 1.5 - 2.0 ppm CuSO4.5H2O – (303 - 404 ml/min per MMgpd*) tahydrate.
	0.5 - 1.0 PPM	Cylindrospermum Oscillatoris Plectonema	Botryococcus Cladophora Coelastrum Draparnaldia Enteromorpha Gloeocystis Microspora Tribonema	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	0.50 - 1.0 ppm CuSO4.5 1.5 - 2.0 ppm CuSO4.5 pentahydrate.
	0.25 - 0.50 PPM	Anabaena Anacystis Aphanizomenon Gloeotrichia Gomphosphaeria Polycystis Rivularia	Closterium Hydrodictyon Spirogyra Ulothrix	Asterionella Fragilaria Melosira Navicula	Dinobryon Synura Uroglena Volvox	0.25 - 0.50 ppm CuSO4.5H2O – (50 - 101 ml/min per MMgpd*) 0.50 - 1.0 1.0 - 1.5 ppm CuSO4.5H2O – (202 - 303 ml/min per MMgpd*) 1.5 - 2.0 Calculations are based Clar+Ion 9100 containing 1% copper sulfate pentahydrate.
COPPE	ORGANISM	Cyanophyceae (Blue-green)	Chlorophyceae (Green)	Diatomaceae (Diatoms)	Protozoa (Flagellates)	0.25 - 0.50 ppm CuSO 1.0 - 1.5 ppm CuSO4 Calculations are based

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.