

83918-6

3/15/2012

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

OFFICE OF CHEMICAL, SAFETY
AND POLLUTION PREVENTION

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

MAR 15 2012

Subject: Clar + Ion 9100 - Label and CSF amendment
EPA Registration No. 83918-6
Decision No. 459456
Submission Date: 12/14/11

Dear Ms Brescia:

The basic and alternate Confidential Statements of Formula #1 through #6 (CSF) dated 3/7/12 referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended are acceptable. These CSFs supersede all CSFs previously accepted for this product.

The labeling referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended to update the labeled percentage of active ingredient, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment.

A copy of the Product Chemistry Review DP398322 dated February 27, 2012 is enclosed for your records.

If you have any questions, please contact Dominic Schuler at (703) 347-0260 or via email at schuler.dominic@epa.gov.

Sincerely,

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

CLAR+ION 9100

Active ingredient:

Copper sulfate pentahydrate* (CAS # 7758-99-8)..... 0.5%

Other ingredients:..... 99.5%

TOTAL: 100.0%

***METALLIC COPPER EQUIVALENT, 0.127%**

Product contains 0.054 lbs AI/gal

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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.
<p>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.</p>	

ACCEPTED

MAR 15 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 83918-G

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**PRECAUTIONARY STATEMENTS
HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. For applications in waters destined 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 application is 0.308 milliliters product per liter

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 when 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.

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 are 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 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 0.005 ppm copper sulfate pentahydrate. The parts per million indicated in testing is multiplied by 0.5% (0.005) to obtain the parts per million copper sulfate pentahydrate. The 0.005 ppm copper salt (25.45 wt% metallic copper) contains 0.00127 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 0.25 ppm of copper sulfate pentahydrate. CLAR+ION 9100 thus provides algae inhibition by the copper sulfate as its secondary function. The 0.25 ppm of copper salt (25.45 wt% metallic copper) contains 0.0636 ppm elemental copper for suppressing algae.

MAXIMUM APPLICATION IS 0.308 MILLILITERS OF PRODUCT PER LITER OF WATER.

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.

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 Anacystis Aphanizomenon Gloeotrichia Gomphosphaeria Polycystis Rivularia	Cylindrospermum Oscillatoris Plectonema	Nostoc Phormidium	Calothrix Symploca
Chlorophyceae (Green)	Closterium Hydrodictyon Spirogyra Ulothrix	Botryococcus Cladophora Coelastrum Draparnaldia Enteromorpha Gloeocystis Microspora Tribonema Zygnema	Chlorella Crucigenia Desmidiium Golenkinia Oocystis Palmella Pithophora Staurastrum Tetraedron	Ankistrodesmus Chara Nitella Scenedesmus
Diatomaceae (Diatoms)	Asterionella Fragilaria Melosira Navicula	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Nudum	
Protozoa (Flagellates)	Dinobryon Synura Uroglena Volvox	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	Chlamydomonas Hawmatococcus Peridinium	Eudorina Pandorina

0.25 - 0.50 ppm CuSO4.5H2O – (101 - 202 ml/min per MMgpd*)
 1.0 - 1.5 ppm CuSO4.5H2O – (405 - 607 ml/min per MMgpd*)

0.50 - 1.0 ppm CuSO4.5H2O – (202 - 405 ml/min per MMgpd*)
 1.5 - 2.0 ppm CuSO4.5H2O – (607 - 809 ml/min per MMgpd*)

Calculations are based Clar-Ion 9100 containing 0.5% copper sulfate pentahydrate.

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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.

03-07-12