



Resource LabelGroup, LLC  
 PHONE: 615.661.5900  
 147 Seaboard Lane  
 Franklin, TN 37067  
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 art@resourcecelabel.com

If you have any questions, please contact

LILLIAN BEHR  
 Fax: 615-661-5950

DATE: 12/23/08

COMPANY: SANCO INDUSTRIES, INC.

ATTENTION: JOHN BATTELL

DESCRIPTION: COPPER SULFATE 5LB BAG ETL

BASE SIZE: 4 X 4.5

BASE SHAPE: RCR

LABELS/OD: 1,000

UPC: None

FINISH: VARNISH

STOCK: WHITE BOPP

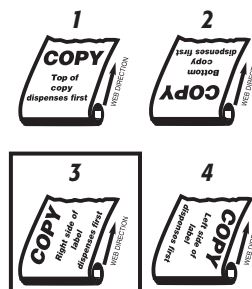
ADHESIVE: PERMANENT

RLG PART #: 3141-125239

ARTIST: CC

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### Crystal Blue Copper Sulfate Smart Crystals

EPA Reg. No. 83190-2-72838  
 EPA Est. 72838-IN-003

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER-PELIGRO

CORROSIVE: Causes irreversible eye damage and irritation to the skin and mucous membranes. Harmful or fatal if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe dust or spray mist. May cause skin sensitization reactions in certain individuals.

Potable water sources treated with copper products may be used as drinking water only after proper additional potable water treatments.

#### PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, applicators and other handlers must wear the following:

- long-sleeved shirt
- long pants
- shoes plus socks
- chemical-resistant gloves made of any waterproof material
- protective eyewear such as goggles, face shield or safety glasses

Some materials that are chemical-resistant to this product are polyvinyl chloride, nitrile rubber, or butyl rubber gloves. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

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 materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### 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.



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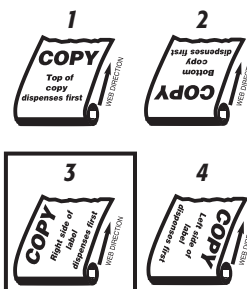
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#### ENVIRONMENTAL HAZARDS

Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Certain water conditions including low pH ( $\leq 6.5$ ), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

#### 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 agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, shoes plus socks, chemical-resistant gloves made of any waterproof material, and protective eyewear such as goggles, face shield or safety glasses.



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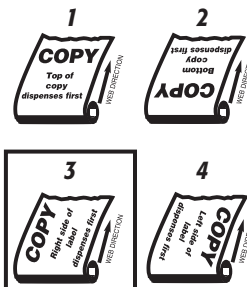
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#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter treated areas until dusts and sprays have settled.

Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) must wear: long-sleeved shirt, long pants, shoes plus socks, chemical-resistant gloves made of any waterproof material, and protective eyewear such as goggles, face shield or safety glasses.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**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. 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:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, offer for recycling, if available, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INSTRUCTIONS FOR USE

##### ALGAE CONTROL

When preparing a Copper Sulfate solution in water, the mixing container should be made of plastic or glass; or a painted, enameled or copper-lined metal container.

Water hardness, water temperature, the type and amount of vegetation to be controlled, and the amount of water flow must be considered in using Copper Sulfate to control algae. Begin treatment soon after plant growth has started. If treatment is delayed until a large amount of algae is present, larger quantities of Copper Sulfate will be required. Generally, larger quantities of Copper Sulfate will also be required to control algae growth when water temperatures are low (below 60°F), in hard water, and in water that is free flowing. If



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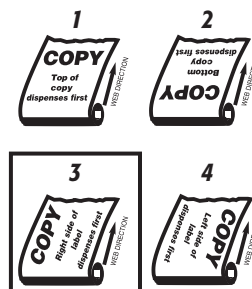
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possible, curtail the flow of water before treatment and hold dormant for approximately three days after treatment, or until the algae have begun to die. For best results, treat algae on a sunny day when the heavy mats of filamentous algae are most likely to be floating on the surface, where it can be sprayed directly. When in doubt about the concentration required for control, first use the lower concentration. If needed, gradually increase to the higher concentration until the algae are killed.

Minimum number of days between applications = 14 days.

**CALCULATIONS FOR AMOUNT OF WATER AND AMOUNT OF COPPER SULFATE PENTAHYDRATE TO BE USED:**

**A. Calculate water volume as follows:**

1. Obtain surface area by measuring regular shaped ponds or mapping irregular ponds or by use of previously recorded data or maps.
2. Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by use of previously recorded data.
3. Multiply the surface area in square feet by average depth in feet to obtain cubic feet of water volume, or multiply surface area in acres by average depth in feet to obtain total acre feet of water volume.

**B. Calculate weight of water to be treated as follows:**

1. Multiply volume in cubic feet by 62.44 to obtain total pounds of water, or multiply volume in acre feet by 2,720,000 to obtain total pounds of water.

**C. Calculate water flow in ditches, streams and irrigation systems:**

1. The amount of water flow in cubic feet per second is found by means of a weir or other measuring device.

**D. Calculate amount of Copper Sulfate to add:**

1. To calculate the weight of Copper Sulfate needed to achieve the recommended concentration, multiply the weight of water in pounds by the recommended concentration of Copper Sulfate.
  - a. Since the recommended concentrations are given in parts per million (ppm) of product, first convert the value to a decimal equivalent. For example, a value of 1 ppm is equivalent to 0.000001 as a decimal value. Thus the amount of Copper Sulfate required to treat 1 acre-foot (2,720,000 pounds) of water with 1 ppm of Copper Sulfate would be: 0.000001 x 2,720,000 = 2.72 lbs. Copper Sulfate.

Useful formulas for calculating water volume flow rates: Multiply the water volume in cu. ft. times 7.5 to obtain gallons. Note: 1 C.F.S./hr. = 27,000 gal.; 1 acre ft. = 326,000 gal.



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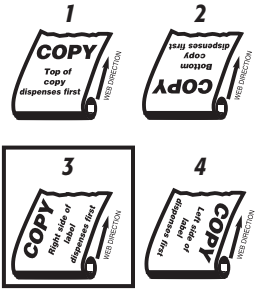
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**TO CONTROL ALGAE IN IMPOUNDED WATER, LAKES, PONDS AND RESERVOIRS:** There are several methods by which to apply Copper Sulfate to impounded water. Probably the simplest and most satisfactory method is to dissolve the Copper Sulfate in water and spray the solution over the body of the water. A small pump mounted in a boat can easily be used for this purpose. Another method is to broadcast the Copper sulfate granules directly on the water surface from a properly equipped boat. A specially equipped air blower can be used to discharge the product at a specific rate over the surface of the water. When using this method, the wind direction is an important factor. Do not use this method unless completely familiar with this type of application. Where the situation permits, a boat can be used to apply the product under the water by dragging burlap bags containing Copper Sulfate through the water. Begin treatment along the shoreline and proceed outward until one-third to one-half of the total area has been treated. Care should be taken that the course of the boat is such as to cause even distribution of the chemical. In large lakes, it is customary for the boat to travel in parallel lines about 20 to 100 feet apart. Continue dragging the burlap bags over the treated area until the minimum dosage is achieved and all granules have been dissolved. Large or medium sized Copper Sulfate granules should be used with this method since they dissolve slowly and evenly. Copper Sulfate can also be applied to impounded waters by injecting a copper sulfate solution in water via a piping system.

**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. Use the lower recommended rate in soft waters (less than 50 ppm methyl orange alkalinity) and higher concentration in hard waters (above 50 ppm alkalinity). Always consult State Fish and Game Agency before applying this product to municipal waters.



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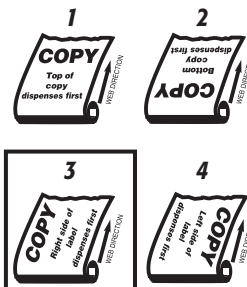
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CONCENTRATIONS OF COPPER SULFATE IN WATER:

ORGANISM	1/4 to 1/2 ppm*	1/2 to 1 ppm*	1 to 1 1/2 ppm*	1 1/2 to 2 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 Desmidium Golenkinia Oocystis Palmella Pithophora Staurastrum Tetraedron	Ankistrodesmus Chara Nitella Scenedesmus
Diatomaceae (Diatoms)	Asterionella Fragilaria Melosira Navicula	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Neidium	
Protozoa (Flagellates)	Dinobryon Synura Uroglana Volvox	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	Chlamydomonas Hawmatococcus Peridinium	Eudorina Pandorina
*1/4 - 1/2 ppm = 0.7 - 1.3 lb. product/acre ft.		*1/2 - 1 ppm = 1.3 - 2.7 lb. product/acre ft.		
*1 - 1 1/2 ppm = 2.7 - 4.0 lb. product/acre ft.		*1 1/2 - 2 ppm = 4.0 - 5.4 lb. product/acre ft.		



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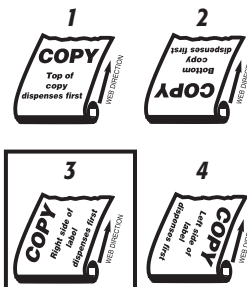
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**SEWER TREATMENT – ROOT DESTROYER**

State law prohibits the use of this product in sewage systems in the State of Connecticut and in the following counties of California: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano and Sonoma. Not for sale or use in septic systems in the state of Florida.

Plant roots can penetrate through small cracks and poorly sealed joints of sewer lines. If not controlled, these small roots will continue to grow larger in number causing breakage, reduced flow, and eventual flow stoppage. Copper Sulfate is an effective means to control roots in residential and commercial sewers.

Do not apply Copper Sulfate through sink or tub drains, as it will corrode the metal drains. Copper Sulfate added to an active 300 gallon septic tank at up to 2 lb. per treatment will temporarily reduce bacterial action, but it will return to normal approximately 15 days after treatment. Trees and shrubbery growing near a treated line normally are not affected due to only a small portion of their roots being in contact with the Copper Sulfate; only those roots inside the leach line are killed.

**COMMERCIAL, INSTITUTIONAL & MUNICIPAL USE:**

- A. **Root Control in Sewers:** As a preventive measure and at times of reduced flow (some water flow is essential), apply up to 2 lb. of Copper Sulfate into each junction or terminal manhole every 6-12 months. For reduced flow due to root masses, add Copper Sulfate in the next manhole above the reduced flow area. For complete stoppage, first penetrate the mass with a rod to enable some flow before treatment.
- B. **Root Control in Storm Drains:** Apply when water flow is light. If no water flow, as in dry weather, use a hose to produce a flow. Apply up to 2 lb. of Copper Sulfate per drain, every 6-12 months.
- C. **Sewer Pumps and Force Mains:** At the storage well inlet, place a cloth bag containing up to 2 lb. of Copper Sulfate every 6-12 months.

**RESIDENTIAL OR HOUSEHOLD USE:**

- A. **Root Control in Sewer Systems:** It is important to treat with Copper Sulfate when reduced flow is first noticed and root growth is thought to be the cause. Do not wait until complete stoppage occurs; some flow is necessary to move the Copper Sulfate to the area of root growth. After roots have accumulated sufficient Copper Sulfate (usually 3-4 weeks), the roots will die and begin to decay, and water flow should increase. Follow-up treatments with Copper Sulfate will be required for regrowth of roots. Apply up to 2 lb. Copper Sulfate two times per year – in the spring after plant growth begins and during late summer or early fall – or anytime a reduced water flow thought to be caused by root growth occurs. Using one-half pound increments, pour Copper Sulfate into the toilet bowl nearest the sewer line and flush; repeat this process until the recommended dose has been added. Or, remove cleanout plug and pour entire recommended amount directly into the sewer line; replace plug and flush the toilet several times.



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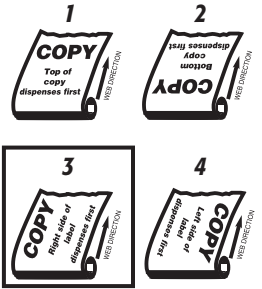
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PROCESS  
BLACK



BOOK PLACEMENT  
(does not print)



DIELINE  
(does not print)

APPROVED  
AS IS:

Signature of Authorized Customer Representative

Date

CHANGES:

(Please mark below)

Signature of Authorized Customer Representative

Date

**B. Roots Control in Septic Tanks, Leach Lines & Leach Line Pipes:** The majority of the Copper Sulfate will settle in the septic tank itself, and little will pass into the leach lines. To treat leach line pipes, add up to 2 lb. of Copper Sulfate to the distribution box located between the septic tank and the leach lines. To achieve effective root control in the leach lines, it is necessary to transfer Copper Sulfate from the septic tank to the leach lines. A cleanout plus opening may need to be installed if the distribution box does not have an opening leading to the leach lines.

**WARRANTY**

Read and follow all package directions carefully. To the extent consistent with applicable law, purchaser and user assume all risks associated with improper use, or application or other factors beyond Sanco Industries, Inc.'s control. Sanco Industries, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the risks referred to above. To the extent consistent with applicable law, SANCO INDUSTRIES, INC. MAKES NO AND THE LAW SHALL NOT FIND ANY EXPRESSED OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. To the extent consistent with applicable law, purchaser's and user's sole remedy against Sanco Industries, Inc. for any cause of action related to the handling or use of this product shall be for damages, the amount of which shall not exceed the price paid for the product that causes the alleged loss, damages, injury or other claim. To the extent consistent with applicable law, in no event shall Sanco Industries, Inc. be liable for special indirect, incidental or consequential damages or expenses. By purchasing or using this product purchaser or user accept the foregoing conditions of sale and limitation of warranty, liability and remedies.

Sanco Industries, Inc.  
Fort Wayne, IN





Resource LabelGroup, LLC

PHONE: 615.661.5900

147 Seaboard Lane  
Franklin, TN 37067

email artwork to:  
art@resource-label.com

If you have any  
questions, please contact

LILLIAN BEHR

Fax: 615-661-5950

DATE: 12/23/08

COMPANY: SANCO INDUSTRIES, INC.

ATTENTION: JOHN BATTELL

DESCRIPTION: COPPER SULFATE 5LB BAG ETL

BASE SIZE: 4 X 4.5

BASE SHAPE: RCR

LABELS/OD: 1,000

UPC: None

FINISH: VARNISH

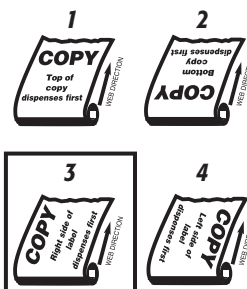
STOCK: WHITE BOPP

ADHESIVE: PERMANENT

RLG PART #: 3141-125239

ARTIST: CC

REWIND 3



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## Crystal Blue Copper Sulfate Smart Crystals

### ACTIVE INGREDIENT:

Copper Sulfate Pentahydrate  
(CAS # 7758-99-8) . . . . . 99.0%  
OTHER INGREDIENTS: . . . . . 1.0%  
TOTAL: . . . . . 100.0%  
Copper as metallic not less than 25%

### KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted a detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See inside this booklet for instructions and additional Precautionary Statements.

[For California: ATTENTION: This product contains a chemical known to the State of California to cause cancer and birth defects.]

EPA Reg. No. 83190-2-72838  
EPA Est. 72838-IN-003

Sold by: **Sanco Industries, Inc.**  
1819 South Calhoun Street  
Fort Wayne, Indiana 46802

### FIRST AID

IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call poison control center or doctor for treatment advice.</li> </ul>
IF INHALED:	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>Call poison control center or doctor for further treatment advice.</li> </ul>
IF IN EYES:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call poison control center or doctor for treatment advice.</li> </ul>
IF SWALLOWED:	<ul style="list-style-type: none"> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical information.