

# Blue-Stone Crystals

1549.65



## Active Ingredient

Copper sulfate pentahydrate: CAS # 7758-99-8 ..... 99.0%

**OTHER INGREDIENTS** ..... 1.0%

**TOTAL** ..... 100%

\*Metallic Copper Equivalent: 25.2%

## Keep Out of Reach of Children

# DANGER / PELIGRO

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

### FIRST AID

<b>If in eyes</b>	<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 a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a 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>
<b>If inhaled</b>	<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 mouth-to-mouth, if possible.</li><li>• Call poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<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>

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

Refer to inside of label booklet for additional precautionary statements and Directions for Use, including Storage and Disposal.

**NOTICE:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer and Misuse statements inside label booklet. If terms are unacceptable, return at once unopened.

EPA Reg. No. 46923-4-67690

EPA Est. No. 67690-NC-002

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164171

SePRO Corporation • 11550 N. Meridian Street, Suite 600 • Carmel, IN 46032, U.S.A.

**Net weight 5 pounds (Non-refillable)**

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Do not get in eyes or on 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 to these waters.

#### PERSONAL PROTECTIVE EQUIPMENT

Mixers, Loaders, Applicators and other handlers must wear the following:

- Long sleeve shirt,
- long pants,
- shoes plus socks,
- protective eyewear such as glasses with side shields,
- chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride ( Some materials that are chemical resistant to this product are rubber and latex. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.),
- disposable particulate dust mask NIOSH approved N95.

Follow manufacturer's instructions for cleaning or 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 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. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

### ENVIRONMENTAL HAZARDS

**AQUATIC USES:** This product is toxic to fish and aquatic invertebrates. Water 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. The oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than ½ of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 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.

Certain water conditions including low pH (<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), increase the potential acute toxicity to non-target aquatic organisms.

**TERRESTRIAL USES:** 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 drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms adjacent to treated areas. Do not apply directly to water, or to area where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

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## 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 adults, children, or pets, either directly or through drift. Do not allow adults, children, or pets to enter the treated area until dusts have settled.

#### NON AGRICULTURAL USE REQUIREMENTS

The requirement 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 the product is used to produce agricultural plants on farms, forest, nurseries or green-houses. Applicators and other handlers who handle this product for any use NOT covered by the Worker Protection Standard (CFR 40 Part 170) must wear long sleeve shirt, chemical resistant gloves made of water-proof material such as rubber or latex, shoes plus socks and protective eyewear. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not allow adults, children or pets to enter treated areas until sprays have completely dried or if applied dry until dust settles

## GENERAL INSTRUCTIONS FOR USE IN ALGAE CONTROL

When using this product to control algae, there are many factors to consider such as water hardness, temperature of the water, type and quantity of vegetation to be controlled and the amount of water flow. Algae can be controlled more easily and effectively if treatment with this product is made soon after algae growth has started. Under such circumstances, small amounts of this product can effectively control algae in water. However, if treatment is delayed until large amounts of algae are present larger quantities of this product will be required. Control of algae in water systems is not always permanent. Usually algae is more difficult to control with this product when water temperatures are low. The dose rates for this product are based on a water temperature of 60°F or higher. Larger amounts of this product will be required in hard water. Normally, larger quantities of this product will be required to kill algae in water that is flowing than in a body of stagnant water: If possible, curtail the flow of water before treatment and hold dormant for about three days after treatment or until algae have begun to die.

When preparing a product solution in water, it is best that the mixing vessel be made of plastic or glass. Metal containers lined with plastic or painted or enameled are permissible. Galvanized containers are to be avoided. It is best to treat algae on calm, sunny days when heavy mats of filamentary algae are most likely to be floating on the surface where it can be sprayed directly. When in doubt about the concentration to be used, it is recommended to start with a lower concentration and gradually increase the concentration until the algae is killed.

## CALCULATIONS FOR AMOUNT OF WATER AND THIS PRODUCT 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 a previously recorded data or maps.
2. Calculate average depth by measuring depth in a regular pattern and taking the mean of these readings or by use of previously recorded data.
3. Multiply surface area in square feet by average depth in feet to obtain cubic feet of water volume, or
4. Multiply surface area in acres by average depth in feet to obtain total acre feet of water volume.

\*For a body of water that contains fish, only 1/2 of the area may be treated at one time. After calculating the area of the body of water as instructed above, divide this number by 2. Use that number to calculate weight of water and amount of this product required to treat half of the body of water.

### 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
2. Multiply volume in acre feet by 2,720,000 to obtain total pounds of water.

### C. Calculate amount of this product to add:

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

**FOR SMALL PONDS:** Follow the directions in "A" above. Calculate the weight of the water to be treated by multiplying the volume in cubic feet by 62.44 to obtain total pounds of water. For 1 ppm of this product multiply the pounds by 0.000001. The result is pounds of this product. The amount of this product to treat a pond 100 ft. by 100 ft. by 2 ft. deep:

$$100 \times 100 \times 2 = 20,000 \text{ ft}^3$$

$$20,000 \text{ cu ft.} \times 62.44 \text{ lbs} = 1,248,800 \text{ lbs of water} \times 0.000001 = 1.25 \text{ pounds of this product.}$$

Treatment of algae can result in oxygen loss from decomposition of dead algae. This loss can cause fish suffocation. Therefore, to minimize this hazard, treat 1/3 to 1/2 of the water area in a single operation and wait 14 days between treatments. Begin treatments along the shore and proceed outwards in bands to allow fish to move into untreated water. NOTE: If treated water is to be used as a source of potable water, the metallic copper residual must not exceed 1 ppm (4 ppm of this product).

## SPECIFIC INSTRUCTIONS

### TO CONTROL ALGAE IN IMPOUNDED WATER, LAKES AND PONDS:

There are several methods by which to apply this product to impounded water. Probably the simplest and the most satisfactory method is to dissolve the Copper Sulfate crystals in water and spray the solution over the body of water. A small pump mounted in the boat can easily be used for this purpose. This product may be broadcast directly on the water surface from a boat. Where the situation permits, this product may be applied under the water by dragging burlap bags filled with this product through the water by means of a boat. 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 the product have been dissolved. For all application methods described, begin treatment along the shoreline and proceed outward until 1/3 to 1/2 of the total area has been treated. No more than half of the water body may be treated at a time. The minimum treatment interval is 14 days. If the treated water is to be used as a source of potable water, the metallic copper concentration must not exceed one ppm (4 ppm this product).

**THIS PRODUCT REQUIRED FOR TREATMENT OF DIFFERENT GENERA OF ALGAE:**

The genera of algae listed below are commonly found in impounded water, lakes, ponds, and reservoirs in the United States. Use the lower recommended rate of Copper Sulfate in soft waters (less than 50 ppm methyl orange alkalinity) and higher concentration in hard water (above 50 ppm alkalinity).

Always consult State Fish and Game Agency before applying this product to municipal waters.

PRODUCT CONCENTRATION: POUNDS PRODUCT/ACRE FOOT:	0.25 to 0.50 ppm .67 to 1.3	0.50 to 1 ppm 1.3 to 2.6	1 to 1.5 ppm 2.6 to 3.9	1.5 to 2 ppm 3.9 to 5.3
ORGANISM Chlorophyceae (Blue Green)	Anabaena Anacystis Aphanizomenon Gloeotrichia Gomphosphaeria Polycystis Rivularia	Cylindrospermum Oscillatoris Pleustonema	Nostoc Phormidium	Calothrix Symploca
Chlorophyceae (Green)	Closterium Hydrodictyon Spirogyra Ulothrix	Botryococcus Cladophora Coelastrum Drapamaldia Enteromorpha Gloeocystis Microspora Tribonema Zygnema	Chlorella Crucigenia Desmidiium Golenkinia Oocystis Palmella Pithiphora Staurostrum Tetraedron	Ankistrodesmus Chara Nitella Scenedemus
Diatomaceae (Diatoms)	Asterionella Fragilaria Melorisa Navicula	Nitzschia Gomphonema Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Neidium	
Protozoa (Flagellates)	Dinobryon Synura Uroglena Volvox	Mallomonas Ceratium Cryptomonas Euglena Glennodinium	Chlamydomonas Haematococcus Peridinium	Eudorina Pandorina

**FRESHWATER SNAIL CONTROL**

To kill parasites causing "swimmers itch" it is necessary to kill the various species of host snails with a maximum 1.5 ppm this product (0.375 ppm metallic copper). In a body of water containing fish, only half of the area may be treated at once. Use the section **CALCULATIONS FOR AMOUNT OF WATER AND THIS PRODUCT TO BE USED** to calculate the amount of this product you will need to apply to the area to be treated. Apply this product to the surface of the water or dissolve in water and make a surface spray. Keep swimmers and livestock out of the pond for 5 days following treatment; doubling this period in very soft waters. Do not make more than two applications per year. In the case where only half of the pond is being treated, it counts as half an application. In the state of New York, copper sulfate is considered a restricted use pesticide for snail control.

**SEWER TREATMENT-ROOT DESTROYER**

**NOTE:** Do not use a sewer additive where prohibited by State Law. State Law prohibits the use of this product in sewer systems in the State of Connecticut. Not for sale or use in California counties of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma for root control in sewers. 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 eventually flow stoppage. This product is an effective means to control roots in residential and commercial sewers.

**RESIDENTIAL OR HOUSEHOLD SEWER SYSTEMS:**

When a reduced water flow is first noticed, and root growth is thought to be the cause, treat with this product. It is important not to wait until a stoppage occurs because some water flow is necessary to move this product to the area of root growth. Usually, within 3 to 4 weeks, after roots have accumulated sufficient this product, the roots will die and begin to decay and water flow should increase. As the roots regrow, follow-up treatments with this product may be required every 6 months. Applications may be made each year

in the spring after plant growth begins, during late summer or early fall, or anytime a reduced water flow, thought to be caused by root growth, occurs. Apply 1 pound of this product every six months to household sewers. Add this product to sewer lines by pouring about ½ pound increments into the toilet bowl nearest the sewer line and flush. Repeat this process until recommended dose has been added. Or remove cleanout plug and pour entire recommended quantity directly into the sewer line. Replace the plug and flush toilet several times. Do not apply this product through sink or tub as it will corrode metal drains. If system is equipped with septic tank, this product will precipitate in the septic tank and little will pass into the absorption drain field. To treat drain field pipes, add 2 pounds of this product once a year to the distribution box located between the septic tank and the drain field. If the distribution box does not have an opening, it would be advisable to install a clean out plug opening into the outlet pipe from the septic tank leading to the drain field for effective root control in the drain field pipes.

## STORAGE AND DISPOSAL

Do not contaminate food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container and place in a locked storage area.

**PESTICIDE DISPOSAL:** Call your local solid waste agency for disposal instructions. Never pour unused product down the drain or on the ground.

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container.

If empty: Offer for recycling if available or discard in a sanitary landfill. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Warranty Disclaimer:** SePRO Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, SePRO Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

**Misuse:** Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall SePRO Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

For additional important labeling information regarding SePRO Corporation's Terms and Conditions of Use, Inherent Risks of Use and Limitation of Remedies, please visit <http://seprolabels.com/terms> or scan the image below.













1549.65

# Blue-Stone Crystals

## Active Ingredient

Copper sulfate pentahydrate: CAS # 7758-99-8 ..... 99.0%

**OTHER INGREDIENTS** ..... 1.0%

**TOTAL** ..... 100%

\*Metallic Copper Equivalent: 25.2%

## KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO

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

**Refer to inside of label booklet for additional precautionary statements and directions for use.**

**Notice:** Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Warranty Disclaimer* and *Misuse* statements inside label booklet. If terms are unacceptable, return at once unopened.**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Corrosive.** Causes irreversible eye damage. May be fatal if swallowed. Do not get in eyes or on 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 to these waters.

## 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 for your State or Tribe, consult the agency responsible for pesticide regulation.

## FIRST AID

<b>If in eyes</b>	<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 a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<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>
<b>If inhaled</b>	<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 mouth-to-mouth, if possible.</li><li>• Call poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<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 the poison control center or doctor for treatment advice.</li></ul>

## HOTLINE SERVICE

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment. Contact INFOTRAC at 1-800-535-5053 for emergency medical information.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## SePRO Corporation

11550 North Meridian Street, Suite 600  
Carmel, IN 46032, U.S.A.

EPA Reg. No. 46923-4-67690

EPA Est. No. 67690-NC-002

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**Net contents 5 pounds (Non-refillable)**

