

46923-4

11/16/2011

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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: **46923-4**
 Date of Issuance: **NOV 16 2011**

Term of Issuance:
 Unconditional

Name of Pesticide Product:
Copper Sulfate Fine Crystals

NOTICE OF PESTICIDE:

- Registration
- Reregistration
 (under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Old Bridge Chemicals
P.O. Box 194
Old Bridge, NJ 08857

Mailed to:

Joel Goldschmidt
 Vice President

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 9/28/2011 and a supplemental label amendment request submitted 7/11/2011. EPA grants these requests 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 Reregistration Eligibility Decision for copper sulfate pentahydrate 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.

Signature of Approving Official:

Date:

NOV 16 2011

Tony Kish, Product Manager (22)
 Fungicide Branch/Registration Division/OPP/OCSP (7504P)

NOV 16 2011

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 4/15/2010 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"
- Supplemental label stamped "Accepted"
- PRB Label Review dated 8/2/2010
- Acute Toxicity Review DP363888 dated 4/14/2009
- Acute Toxicity Review DP362520 dated 3/13/2009
- Product Chemistry Review DP380573 dated 7/29/2010 (CSF)
- Product Chemistry Review DP375083 dated 3/9/2010
- Product Chemistry Review DP362518 dated 12/1/2009

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Old Bridge Chemicals, Inc.

COPPER SULFATE FINE CRYSTALS

Net Weight: 50 pounds (22.7 Kg) EPA Reg. No. 46923-4 EPA Est. No. 46923-NJ-1

ACTIVE INGREDIENT

Copper Sulfate Pentahydrate*: CAS # 7758-99-899.0%

OTHER INGREDIENTS.....1.0%

TOTAL.....100%



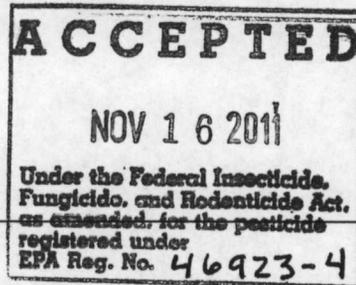
*Metallic Copper Equivalent: 25.2%

Certified to ANSI/NSF 60

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).

ATTENTION: This product contains chemicals known to the State of California to cause cancer and birth defects.



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 swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have a 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.
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 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 the poison control center or doctor for treatment advice.

HOT LINE SERVICE

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment. You may contact 800-275-3924 for emergency medical information.

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

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, disposable particulate dust mask NIOSH approved N95. 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 resistant category selection chart. 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 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 outside of gloves before removing.

ENVIRONMENTAL HAZARDS

AQUATIC USES: This pesticide 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. 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 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/or lower), and soft waters (i.e. alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms.

Restrictions: For algae use except for treatment of rice to control algae: No more than 1/2 of the water body may be treated at one time. If the treated water is to be used as a source of potable water, the metallic copper concentration must not exceed 1 ppm. For all algae use (including use of rice to control algae), the minimum retreatment interval is 14 days.

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 product 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.

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.

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 greenhouse 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 protection equipment (PPE), and restricted-entry period. 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 restricted entry interval for 48 hours. PPE required for early entry to treated areas that is permitted by the Worker Protection Standard that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, shoes plus socks, chemical resistant gloves made waterproof material such as polyethylene or polyvinyl chloride and goggles or face shield.

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.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions, (e.g., wind direction, wind speed, temperature, relative humidity and methods application (e.g. ground application, aerial, air blast, chemigation) can influence spray drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Wind Speed: Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph) and there are no sensitive areas within 250 feet downwind.

Temperature Inversions: If applying at wind speeds less than 3 mph, the applicator must determine if (a) conditions of temperature inversions exist, or (b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions at stable atmospheric conditions.

Droplet Size: Apply only as a medium or coarse spray (ASAE Standard 572) or a mean diameter of 300 microns or greater for spinning atomizer nozzles.

Equipment: All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Aerial Application: The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release crystals at the lowest height consistent with efficacy and flight safety. Do not release at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool and dry place. Open dumping is prohibited. If container is damaged place container in a plastic bag. Shovel any spills into a plastic bag and seal with tape.

Container disposal: Non-refillable container: Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residues into application equipment. Offer for recycling if available. Otherwise dispose of liner in a sanitary landfill or by incineration if allowed by the State and Local Authorities. If burning, stay out of smoke.

Pesticide Disposal: If container is partially filled, call your local solid waste Agency (or 1-900-CLEANUP) for disposal instructions. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Never place unused product down any indoor or outdoor drain except as specified in these label instructions.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

ALGAE CONTROL

When using Copper Sulfate 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 Copper Sulfate is made soon after plant growth has started. Under such circumstances, small amounts of Copper Sulfate can effectively control algae in water. However, if treatment is delayed until large amounts of algae are present larger quantities of Copper Sulfate will be required. Control of algae in water systems is not always permanent. Usually algae is more difficult to control with Copper Sulfate when water temperatures are low. The dose rates for Copper Sulfate are based on a water of 60 ° F or higher. Larger amounts of Copper Sulfate will be required in hard water. Normally, larger quantities of Copper Sulfate 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 plants have begun to die. When preparing a Copper Sulfate 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 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 a 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 surface area by 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.

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 Copper Sulfate Pentahydrate to add:

To calculate the weight of Copper Sulfate Pentahydrate 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 Copper Sulfate Pentahydrate required to treat 1 acre-foot (2,720,000 pounds) of water with 1 ppm of Copper Sulfate Pentahydrate would be $0.000001 \times 2,720,000 = 2.72$ lbs. Copper Sulfate Pentahydrate.

Treatment of algae can result in oxygen loss for decomposition of dead algae. This loss can cause fish suffocation. Therefore to minimize this hazard, treat $\frac{1}{3}$ to $\frac{1}{2}$ 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 Copper Sulfate Pentahydrate).

SPECIFIC INSTRUCTIONS

CONTROL ALGAE AND THE POTAMOGETON PONDWEEDS, LEAFY SAGO, IN IRRIGATION CONVEYANCE SYSTEMS: Use the continuous application method, selecting proper equipment to supply Copper Sulfate Crystal at 0.25 to 0.5 pounds per hour for each cubic foot per second of flow for twelve hours of each 24 hours. For the best control, begin Copper Sulfate additions when water is first turned into system to be treated and continue throughout the irrigation season. Copper Sulfate Crystal becomes less effective for mature plants. Copper Sulfate Crystal becomes less effective as the bicarbonate alkalinity increases and is substantially reduced above 150 ppm as CaCO₃. Mechanical or other means may then be required to remove excess growth.

TO CONTROL ALGAE SUCH AS FILAMENTOUS GREEN PIGMENTED FLAGELLATES AND DIATOMS IN IRRIGATION CONVEYANCE SYSTEMS: Begin continuous addition when water is first turned on using suitable equipment to uniformly deliver 0.1 to 0.2 pounds of Copper Sulfate Crystal per hour per cubic foot per second of flow for 12 of each 24 hours. (note: Copper Sulfate Crystal comes in several "free flowing" crystal sizes but should be selected to match requirements of your feeder.)

TO CONTROL ALGAE IN RICE FIELDS: (Domestic and Wild): Application should be made when algae has formed on the soil surface in the flooded field. Applications are most effective when made prior to algae leaving the soil surface and rising to the surface of the water. For a 3-inch flood depth, apply Copper Sulfate at a rate of 2.72 lbs. per acre at the first sign of algae. Apply Copper Sulfate crystals to the surface of the water or dissolve in water and make a surface spray. For a 6-inch flooded depth, use 5.44 lbs. per acre. Adjust the rate according to the average water depth, not to exceed the maximum application rate of 4 ppm of Copper Sulfate (1 ppm metallic copper), which is equivalent to 10.88 lbs. of Copper Sulfate per acre-foot of water. The minimum retreatment interval is 14 days.

TO CONTROL TADPOLE SHRIMP IN RICE FIELDS: Application should be made to the flooded rice fields anytime the pest appears from planting time until the seedlings are well rooted and have emerged through the water. For a 3-inch flood depth, apply 6.75 pounds per acre. For a flood depth of 6 inches, use 13.6 lbs. per acre. Adjust the rate according to the average water depth, not to exceed the maximum application rate of 10 ppm of Copper Sulfate (2.5 ppm metallic copper), which is equivalent to 27.2 pounds of Copper Sulfate per acre of water.

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 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. Copper Sulfate may be broadcast directly on the water surface from a properly equipped boat. A specially equipped air blower can be used to discharge these size crystals 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. Copper Sulfate is also designed to be used as a dry application from airplanes, using a maximum of 10.64 pounds per acre-foot. Where the situation permits, Copper Sulfate may be applied under the water by dragging burlap bags filled with Copper Sulfate through the water by means of a boat. Begin treatment along the shoreline and proceed outward until $\frac{1}{3}$ to $\frac{1}{2}$ of the total area has been treated. No more than $\frac{1}{2}$ of the water body may be treated at one time. 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 crystals have been dissolved. 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 1 ppm (4 ppm Copper Sulfate).

COPPER SULFATE 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).

NOTE: Do not use concentration of 1 1/2 ppm or more where fish are present. Concentrations up to 6 ppm are permitted in waters such as rice fields where fish are not present. Always consult State Fish and Game Agency before applying this product to municipal waters.

CONCENTRATION:		1/4 to 1/2 ppm	1/2 to 1 ppm	1 to 1 1/2 ppm	1 1/2 to 2 ppm
POUNDS/ACRE FOOT:		.67 to 1.3	1.3 to 2.6	2.6 to 3.9	3.9 to 5.3
ORGANISM					
Cyanophyceae (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 Desmidium Golenkinia Oocystis Palmelia Pithiphora Staurastrum Tetraedron	Ankistrodesmus Chara Nitella Scenedemus	
Diatomaceae (Diatoms)	Asterionella Fragilaria Melorisa Navicula	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Neidum		
Protozoa (Flagellates)	Dinobryon Synura Uroglena Volvox	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	Chlamydomonas Hawmatococcus Peridinium	Eudorina Pandorina	

**SEWER TREATMENT-ROOT DESTROYER
ROOT CONTROL GENERAL INFORMATION**

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 has been known to be an effective means to control roots in residential and commercial sewers.

**COMMERCIAL, INSTITUTIONAL AND MUNICIPAL SEWERS
ROOT CONTROL IN SEWERS.**

As a preventative measure, apply into each junction or terminal manhole a maximum of two pounds of this product every 6 to 12 months. At time of reduced flow (some water is essential) add this product. If flow has not completely stopped, but has a reduced flow due to root masses, add this product in the next manhole above the reduced flow area. For complete stoppage, penetrate the mass with a rod to enable some flow before treatment.

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 2 pounds of this product per drain per year.

SEWER PUMPS AND FORCE MAINS:

At the storage well inlet, place a cloth bag containing 2 lbs of this product. Repeat every six months if necessary.

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 Copper Sulfate Pentahydrate, the roots will die and begin to decay and water flow should increase. As the roots re-grow, 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 one pound of this product every six months to household sewers. Add this product to sewer lines by pouring about 1/2 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 Copper Sulfate through sink or tub as it will corrode metal drains. If system is equipped with septic tank, Copper Sulfate will precipitate in the septic tank and little will pass into the absorption drain field. To treat drain field pipes, add 2 pounds of Copper Sulfate 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.

***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

WOOD TREATMENT

(Green, peeled posts)- fungus decay rot

Prepare a solution of 18.0 pounds of sodium chromate in each 26 gallons of water to be used and a separate second solution of 18.0 pounds of Copper Sulfate in each 24 gallons of water to be used; soak the peeled, green posts, butt end down first in the Copper Sulfate solution for 3 days, then butt end down in Sodium Chromate solution for 2 days, and finally, turn the posts upside down in Sodium Chromate solution for 1 additional day. Remove and rinse posts with clear water.

**CONDITION OF SALE
LIMITED WARRANTY AND LIMITATIONS
OF LIABILITY AND REMEDIES**

Read and follow all package directions carefully. Purchaser and user assume all risks associated with improper use, or application or other factors beyond Old Bridge's control. Old Bridge 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 above. **OLD BRIDGE 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 use and sole remedy against Old Bridge for any cause of action related to the handling or use of this product shall be for damages, for 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 Old Bridge 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.

**ENVIROMENTALLY HAZARDOUS
SUBSTANCE
SOLID, N.O.S. (CUPRIC SULFATE),
9,UN3077, PGIII, RQ
CASE NO. 7758-99-8**

For Technical Information and MSDS
Call Old Bridge Chemicals
at (732) 727-2225
or e-mail: Sales@OldBridgeChem.com

**OLD BRIDGE CHEMICALS, INC
P.O. Box 194
Old Waterworks Road
Old Bridge, New Jersey 08857**



SUPPLEMENTAL LABEL

COPPER SULFATE FINE CRYSTALS

EPA Reg. No. 46923-4 EPA Est. No. 46923-NJ-01

This supplemental label expires on January 31, 2013 and must not be used or distributed after this date

CHEMIGATION

This bulletin contains supplemental Directions For Use that does not appear on the package of this product. This labeling must be in the possession of the user at the time of pesticide application. Refer to the primary label for Precautionary Statements, and Disposal Directions.

DIRECTIONS OF USE:

It is a violation of Federal laws to use this product n a manner inconsistent with its labeling.

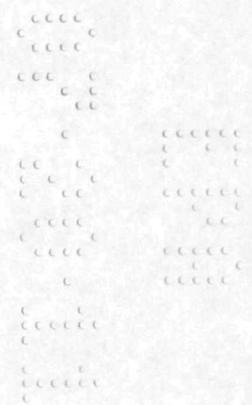
If this product is intended to be applied by chemigation, follow these directions:

Apply this product only through a sprinkler including center pivot, lateral move, end tow, side (wheel) roll traveler, big gun, solid set, or hand move; flood (basin); furrow; border; or drip (trickle) irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact state extension service specialists, equipment manufacturers or other experts.

Do not connect irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable about the chemigation system and responsible for its operation or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise.

POSTING OF AREAS TO BE CHEMIGATED:

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools,



parks, playgrounds or other public facilities, not including roads, or 2) when the chemigated areas is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other locations affording maximum visibility to sensitive areas. The pointed side of each sign shall face away from the treated area and toward the sensitive area. The signs shall be printed in English. Signs must be posted prior to applications and must remain posted until foliage has dried and soil surface water has disappeared. Signage may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 21/2 inches tall and all letters and the symbol shall be of a color, which contrasts sharply with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDE IN IRRIGATIONS WATER. A small-scale example of an acceptable sign follows.

KEEP OUT



**PESTICIDES IN
IRRIGATION WATER**

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

PUBLIC WATER SYSTEMS

A public water system is a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. A chemigation system connected to a public water system must contain a functional, reduced-pressure zone and a backflow preventer (RPZ), or the functional equivalent, in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally



closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system either automatically or manually shuts down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment. If you prefer to make a Copper Sulfate Solution, mix 2.75 pounds of crystals to one gallon of water to make a 25 percent Copper Sulfate Solution. Slowly add crystals to water while agitating until all crystals are dissolved. Use one gallon of solution for every 2.5 pounds of Copper Sulfate (crystals equivalent) desired. Follow directions on the package regarding application.

SPRINKLER CHEMIGATION

If the product is to be applied via sprinkler system, the system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials compatible with pesticides and capable of being fitted with a system interlock.

Do not apply product when wind speed favors drift beyond the area intended for treatment. If you prefer to make a Copper Sulfate Solution, mix 2.75 pounds of crystals to 1 gallon of water to make a 25 percent Copper Sulfate Solution. Slowly add crystals to water while agitating until all crystals are dissolved. Use one gallon of solution for every 2.5 pounds of Copper Sulfate (crystals equivalent) desired. Follow directions on the package regarding application.

When mixing a Bordeaux mixture keep the agitator running in the spray tank until spraying is completed. Apply the Copper Sulfate Bordeaux Mixture continuously for the duration of the water application. If this is impractical, apply this product at the end of the application cycle. Follow directions on the primary label covering the crop to be treated.



FLOOD (BASIN), FURROW AND BORDER CHEMIGATION:

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity, such as a drop structure or weir box, to decrease potential for water source contamination from backflow if water flow stops.

A system utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when water pressure decreases to the point where pesticide distribution is adversely affected.
- The system must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system Interlock.

If you prefer to make a Copper Sulfate Solution, mix 2.75 pounds of crystals per gallon of water to make a 25 percent Copper Sulfate Solution. Slowly add the crystals to the water while agitating until all crystals have dissolved. Use one gallon for every 2.5 pounds of Copper Sulfate (crystals equivalent) desired. Apply Copper Sulfate continuously for the duration of the water application. If this is impractical, apply this product at the end of the application cycle. Follow directions on the primary label covering the specific crop to be treated.

NOTE: Copper Sulfate may be corrosive to aluminum equipment.

Manufactured by:

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