

ACTIVE INGREDIENT:	
Copper Sulfate Pentahydrate*	99.0%
Other Ingredients	1.0%
Total	100.0%
*Copper as Metallic not less than	25.2%



Certified to ANSI/NSF 60

KEEP OUT OF REACH OF CHILDREN

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

DANGER/PELIGRO Si usted no entendo la etiqueta, busque a alguien para que se la aplique a usted en detaile (if you do not understand this label, find someone to explain it to you in detail)

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

Danger: Causes severe eye and skin irritation. Harmful if absorbed through the skin or inhaled. May cause skin sensitization reactions in certain individuals. Avoid contact with the skin, eyes or clofting. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on EPA Chemical Resistance Category Selection Chart.

Applicators and other handlers must wear:

Applicators and other handlers must wear:
Long sleeved shirt and pants Shoes plus socks Protective eye wear
Chemical-resistant gloves made of any waterproof material such as polyethylene or
polyvinyl chloride
Dust/mist filtering respirator (MSHA/NIOSH) approval number TC21C) or
A NIOSH approved respirator with any N, R, P or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PEE, if no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Remove PPE immediately after handling this product. Wash outside of gloves before removing . As soon as possible, wash thoroughly and change into clean clothing.

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 advise. If in eyes 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 Take off contaminated clothing. Rinse skin immediately with plenty of or on clothing water for 15-20 minutes. Call poison control center or doctor for treatment advice. Call poison control center or doctor immediately for treatment advice. If swallowed Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control

HOT LINE SERVICE

center or doctor. Do not give anything by mouth to an unconscious

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

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

ENVIRONMENTAL HAZARDS

This pesticide is hazardous to fish and aquatic organisms. Do not apply directly to water except as directed under the specific instructions section, Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Direct application of Copper Sulfate to water may cause a significant reduction in populations of aquatic invertebrates, plants and fish. Do not treat more than onehalf of lake or pond at one time in order to avoid depletion of oxygen levels due to decaying vegetation, Allow one to two weeks between treatments for oxygen levels to recover

Trout and other species of fish may be killed at application rates recommended on this label, respecially in soft or acid waters. However, fish toxicity generally decreases when the hardness of water increases. Do not contaminate water by cleaning of equipment or disposal of wastes. Consult your State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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

EPA Reg. No. EPA EST. No. 46923-N.I-1

(See Back Panel for Directions For Use)

NET WT. 50 LBS. (22.7 kilos)

For Technical Information and MSDS visit our website:www.oldbridgechem.com



MADE IN U.S.A.

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers 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 protection 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 (REI) for 24 hours.

PPE required for early entry for 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

Coveralls

Coveralls Waterproof Gloves Shoes plus Socks Protective Eye Wear

STORAGE AND DISPOSAL

Store in a cool, dry place. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. If container is damaged, place container in a plastic bag. Shovel any spills into plastic bag and seal with tage.

into plassic day and sea with laber. Container disposal: Completely empty liner by shaking and tapping the sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and Local authorities.

GENERAL INSTRUCTIONS

It is a violation of Federal Law to use this pr with its labeling

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses 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 lants on farms, forests, nurseries, or greenhouses,

Protective clothing including goggles, should be worn. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ALGAE CONTROL

ALGAE CONTROL

When using Old Bridge Copper Sulfate Pentahydrate 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 thorewer, 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 we are temperatures are low. The dose rates for Old Bridge Copper Sulfate are based on a water of 60°F or higher. Larger quantities of Copper Sulfate will be required to hard water. Normally, larger quantities of Copper Sulfate will be required to hard water. Normally, larger quantities of Copper Sulfate will be required to have a such as the such as the such as the such as the control of the such as the such as

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 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 in square feet by average depth in feet to obtain cubic feet of water volume. or
 - water volume, or 4. Multiply surface area in acres by average depth in feet to obtain total acre feet of water volume
- 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:

I 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 concentration are given in parts per million (ppm), first convert the value to a decimal equivalent. A value of 1 ppm is equivalent to 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 x 2,720,000 = 2.72 bs. Copper Sulfate

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 walt 7 to 14 days between treatments. Begin treatments along the shore and proceed outwards in bands to allow fish

NOTE: If treated water is to be used as a source of potable water, the metallic copper residual must not exceed 1

SPECIFIC INSTRUCTIONS

TO CONTROL ALGAE AND THE POTOMOGETON POND WEEP, LEAFY AND SAGO IN IRRIGATION SYSTEMS: Once the amount of Copper Sulfate required for treating ditches or streams has been calculated, us a continuous application method, selecting proper equipment to supply Copper Sulfate crystals as follows:

FOR ALGAE CONTROL - Begin continuous addition of Copper Sulfate crystals are follows:

system and continue throughout the irrigation system, applying 0.1 to 0.2 pounds per cubic foot per second per

day.

FOR LEAFY AND SAGO POND WEED CONTROL - Use the same continuous feeder applying 1.6 to 2.4 pounds
Copper Sulfate Pentahydrate per cubic foot per second per day. NOTE: For best control of leafy and sago pond
weed, it is essential to begin Copper Sulfate additions when water is first turned into the system or dichain to be treated and to continue through the irrigation system. Copper Sulfate becomes less effective as the alkalinity increases. Its effectiveness is significantly reduced when the bicarbonate alkalinity exceeds 150 ppm. Should Indicases, to elictionness is significantly reduced writer the discussional analytic years of the Opph's Siliate fail to control point weeds satisfactorily, it may be necessary to treat the ditch with either a suitable approved herbicide or use of a mechanical means to remove excess growth. In either case, resume Copper Sulfate addition as soon as possible.

TO CONTROL ALGAE IN IRRIGATION CONVEYANCE SYSTEMS USING THE SLUG APPLICATION METHOD:

Make An addition (dump) of Copper Sulfate into the irrigation ditch or lateral at 0.25 to 2.0 pounds per cubic foot per second of water per treatment. Repeat at approximate two-week intervals as required. Depending on water hardness, alkalinity and algae concentrations, a dump is usually required every 5 to 30 miles. Effectiveness of Copper Sulfate decreases as the bicarbonate alkalinity increases and is significantly reduced when the alkalinity

Copper Sulfate decreases as the bicarbonate alkalinity increases and is significantly reduced when the alkalinity exceeds approximately 150 ppm as CaC03.

TO CONTROL ALGAE IN IMPOUNDED WATER, LAKES, PONDS, AND RESERVOIRS: There are several methods by which to apply Old Bridge Copper Sulfate to impounded water. Probably the simplest and most satisfactory method is to dissolve the Copper Sulfate crystals in water and spray the solution over the body of the water. A small pump mounted in the boat can easily be used for this purpose. Copper Sulfate by the broadcast directly on the water surface from a property equipped boat. Old Bridge Copper Sulfate coarse Crystals or Fine Crystals are preferred for this particular method of application. 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. Old Bridge Copper Sulfate is also designed to be used as a dry application from airplanes, using a maximum of 5.3 pounds per acre. Where the situation permits, Copper Sulfate may be applied under the water by draggling burlap bags and dragged through the water by means of a boat. 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 its 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 crystals have been dissolved. Old Bridge Copper Sulfate Large Crystals or Small Crystals should be used with this method since they dissolve slowly and evenly.

CONTROL OF TADPOLE SHRIMP IN FLOODED RICE FIELDS: (Domestic and Wild):
Old Bridge Copper Sulfate Pentahydrate is recommended for the control of Tadpole Shrimp in the rice fields. Copper Sulfate should be applied at the rate of 10 to 15 pounds per acre by mixing with 60 gals. of water and applying as a Sulfate should be applied at the rate of 10 to 15 pounds per acre by mixing with 60 gals. of water and applying as a uniform surface spray using boat, plane or other professional means and pressurized spray device. This product also designed to be used as a dry application from airplanes using 10 to 15 pounds per acre. Use at the first indication of infestation after the filed has been flooded to a depth of 6 to 8 inches. Old Bridge Copper Sulfate Pentahydrate is especially made for maximum solubility in this volume of water.

TO CONTROL ALGAE IN RICE FIELDS: (Opmestic 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 the algae's leaving the soil surface and rising to the water surface. Apply 10-15 pounds Copper Sulfate Pentahydrate to the water surface or dissolve in water and make a surface spray. Apply higher rate in deeper water (6 inches or greater).

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 water (above 50 ppm alkalinity). Always consult State Fish and Game Agency before applying this product to municipal waters.

ORGANISM Cyanophyceae (Blue Green)	1/4 to 1/2 ppm* Anabaena Anacystis Aphanizomenon Gloeotrichia Gomphosphaeria Polycystis Rivularia	1/2 to 1 ppm* Cylindrospermum Oscillatoris Plectonema	1 to 1 ¹ / ₂ ppm* Nostoc Phormidium	1 ¹ / ₂ to 2 ppm* Calothrix Symploca	
Chlorophyceae (Green)	Closterium Hydrodictyon Spirogyra Ulothrix	Botryococcus Cladophora Coelastrum Draparnaldia Enteromorphia Gloeocystis Microspora Tribonema Zygnema	Chlorella Crucigenia Desmidium Golenkinia Oocystis Palmella Pithophora Staurastrum Tetraedron	Ankistrodesmus Chara Nitella Scenedesmus	
Diatomaceae (Diatoms)	Asterionella Fragilaria Melorisa Navicula	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Neidium		
Protozoa (Flageliates)	Dinobryon Synura Uroglena Volvox	Ceratium Cryptomonas Euglena Glenodinium Mallomonase	Chlamydomonas Hawmatococcus Peridinium	Eudorina Pandorina	

*'/_e-'/_s ppm = .67 - 1.3 lbs/acre ft. *'/_s - 1ppm = 1.3 -2.6 lbs/acre ft. *1 - 1'/_s ppm = 2.6 - 3.9 lbs/acre ft. *1/_f - 2 ppm = 3.9 - 5.32 lbs/acre ft

SEWER TREATMENT - ROOT DESTROYER

SEWEN I KEAI MENT - RUOT 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.

Soliotina.

A. For Partial Stoppage: Add ½, pound of Copper Sulfate to sewer or drain and flush toward blockage with 5 gallons of water. Repeat at 6 month intervals to prevent growth of new roots.

B. For complete Stoppage: Physically remove the root blockage and repeat as above.

WOOD TREATMENT

(green, neeled 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 Sodium chromate in each 24 gallons of water to be used; soak the peeled, green posts, butt end down first in copper suifate 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.

BORDEAUX MIXTURE

HOW TO UNDERSTAND BORDEAUX FORMULATIONS: If the Bordeaux Mixture
HOW TO UNDERSTAND BORDEAUX FORMULATIONS: If the Bordeaux Mixture instructions read 10-10-100, the
first figure means the number of pounds of Copper Sultate Pertahydrate. The second figure means the pounds of
hydrated spray lime, and the third figure, the gallons of water to be used. Use as a full coverage spray to runoff.
HOW TO PREPARE A BORDEAUX MIXTURE:
To prepare a Bordeaux Mixture. Fill a tank with water, one-quarter full. Then with an agitator running, mix Old Bridge
Copper Sulfate through a copper, bronze, stainless steel or plastic screen. Add water so the tank is three-quarters
full. Mix-in the hydrated spray lime through the screen, and finish filling the tank with water.

CHEMIGATION

Refer to supplemental label for Use Directions for Chemigation. Do not apply this product through any
irrigation system unless supplemental labeling on chemigation is followed. Supplemental labeling is entitled:

SUPPLEMENTAL LABELING COPPER SULFATE

EPA Reg. Number 46923-4. EPA Est. Number 46923-NJ-01

CHEMIGATION

CHEMIGATION

Almonds, Apricots, Peaches, Rectarines: Shot Hole Fungus - Prepare a 10-10-100 Bordeaux Mixture and apply as a dormant spray in late fall or early spring.

Almonds, Apricots, Cherries, Peaches, Rectarines, Plums, Prunes: Brown Rot Blossom Blight - Prepare a 10-10-100 fordeaux Mixture and apply when buds begin to swell.

Sour Cherries: Leaf Spot - Prepare a 10-10-100 Bordeaux Mixture and apply as a full coverage spray after petal fall or as recommended by the State Extension Service.

Tall or as recommended by the State Extension Service.

Lemons, Orange, Brapefruit Phytophthora Brown Rot - Prepare a 3-47,- 100 Bordeaux Mixture where there is no history of copper injury or a 3-2-6-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) Bordeaux Mixture. Spray 6 gallons on skirt of tree 3 to 4 feet high and 2 to 4 gallons on trunk and ground under the tree. If Phibernaliais present, use 10 to 25 gallons to completely cover each tree. Apply in November or December just before or after first rain. In severe Brown Rot season, apply second application in January or February Lemons, Oranges, Grapefruit: Septoria Fruit and Leaf Spor (Central California), Brown Rot, Zinc and Copper deficiencies Prepare a 3-2-100 Bordeaux Mixture (Zinc Sulfate Copper Sulfate Hydrated Lime Gallons of Water) and use 10 to 15 gallons to completely cover each tree. Apply in October, November or December just before or after first rain.

after first rain.

Walnuts: Walnut Blight Apply 15 pounds Copper Sulfate with 10 pounds of Hydrated Lime in 100 gallons of water plus /, gallon summer oil emulsion. Apply in early pre-bloom and at 10 to 20% pistillate (not when catkin blooms are showing) just before or after rain. Use only if Bordeaux Mixture has been proven to be non-phytotoxic in your

area.

**Olives: Peacock Spot, Olive Knot Prepare a 10-10-100 Bordeaux Mixture and apply in autumn before heavy winter rains to prevent Peacock Spot. In areas of less than 10 inches rainfall, use a 5-10-100 Bordeaux Mixture. To help protect against Olive Knot apply a 10-10-100 Bordeaux before heavy rains and again in the spring. Injury may occur in areas of less than 10 inches of rainfall.

Name of the state of the state

CONDITIONS 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 to above. OLD BRIDGE MAKES NO AND THE LAW SHALL NOT FIND ANY EXPRESSED OR IMPLIED WARRANTY OF MERCHANTABILITY OR THINESS FOR ANY PRACTICULAR PURPOSE.
Purchaser's and user's sole remedy against Old Bridge 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. 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.

E.P.A. Reg. No. 46923-4

E.P.A. Reg. No. 46923-4 E.P.A. Est. No.46923-4-NJ-01

OLD BRIDGE CHEMICALS, INC.