

Yor-Y:

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing and spray have on. Certain states require more restrictive spraying standards for various crops treated with this product. Consult your State Department of Agriculture for further information.

Written or oral earnings shall be given to workers who are expected to be in a treated area or in areas about to be treated with this product. When oral earnings are given, earnings shall be given in a language commonly understood by workers. Written and oral earnings must include the following information: DANGER! Area treated with Copper Sulfate on basis of application. Do not enter without appropriate protective clothing until spray has dried. Resuspend Protective Clothing: Long sleeves and long legged pants. In case of accidental exposure, wash immediately with plenty of water. If irritation occurs, consult your physician. Do not eat, drink, or smoke in treated areas. For further information, see Copper Sulfate Department of Agriculture for further information.

Store in a cool, dry place. Do not contaminate water, food or feed by splashes or disposal. Clean dumping is prohibited. Do not reuse empty container. If container is damaged, place container in a plastic bag. Shower any spills into plastic bag and seal with tape. Plastic containers are not leaky. Hazardous materials cannot be disposed of by use according to a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Health and Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal: Carefully empty into by shaking and tapping 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.

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When using Copper Sulfate to suppress or 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 with varying degrees of effectiveness if treatment with Copper Sulfate is matched to the plant growth rate. 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, large 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 temperature of 60°F or higher. Larger quantities 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, control the flow of water before treatment and hold detritus 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 unvarnished are peroxidized. Galvanized containers are to be avoided. It is usually 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 slain.

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 on 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.
 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 62.4 to obtain total pounds of water.
 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 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 $0.000001 \times 2,720,000 = 2.72$ lbs. Copper Sulfate Pentahydrate.

Treatment of algal can result in oxygen loss from decomposition of dead algae. The loss can cause fish suffocation. Therefore, to minimize this hazard treat 1/3 to 1/6 of the water area in a single operation and wait 7 to 14 days between treatments. Begin treatments along the shore and proceed outwards on 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 fall exceeded 1 ppm (4 ppm Copper Sulfate Pentahydrate).

SPECIFIC INSTRUCTIONS

TO CONTROL ALGAE IN IMPROUNDED WATER, LAKES, POND, 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 crystals in water and to spray this solution over the body of water. A small pump mounted in the boat can easily be used for this purpose. Few crystals may be broadcast directly on the water surface from a properly equipped boat.

Needle or Powder are preferred for this particular method of application. A specially equipped or blown can be used to discharge these fine 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 carefully familiar with this type of application.

Drift Netting—This method of application is preferred and designed to be used as a drift net. The net is made of 1/2 inch mesh and is 53 yards long. The net is towed by a motor launch from the pierhead, using a maximum of 53 pounds of net. The net is towed by a motor launch. Copper Sulphate may be applied under the water by dragging buoys containing Copper Sulphate. The crystals are placed in buoys and dragged through the water by means of a boat. Buoys containing along the shoreline and proceed outward until they reach the end of the lake area has been treated. Care should be taken that the surface of the boat is such as to cause even distribution of the chemical in larger bays. A customer should be advised that the net is towed at a speed of 2 to 100 feet per hour. Copper dragging the net is towed at a speed of 2 to 100 feet per hour. The net is towed at a speed of 2 to 100 feet per hour. The net is towed at a speed of 2 to 100 feet per hour.

—SPECIAL SERVICE DIVISION, U.S. ARMY, CORPUS CHRISTI, TEXAS

be used with the material once they discover slowly and merely
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 more effective
when made prior to the algae's reaching the soil surface and rising to the water surface.
Apply 10 to 15 pounds Copper Sulfate Pentahydrate to the water surface or directly in water
and make a surface spray. Apply higher rate in deeper water (5 inches or greater).
CROFTON, H. E. and J. H. HANCOCK, JR. (eds.), *Handbook of Aquatic Weeds*. Illinois Natural History Survey, Urbana, Illinois, 1966.

Copper Sulfate Pentahydrate is recommended for the control of *Lagoaia* Spiny in new fish ponds. Copper Sulfate should be applied at a rate of 10 to 15 gm. acre by mixing with 50 gals. of water and applying as a uniform surface spray using hand pump or commercial pressure machine and pressure used should be mild. This product is not designed to be used as a dry deposit from airplanes, using 10 to 15 pounds per acre. Use of the top most spray of application after the first has been made; is at a depth of 6 to 8 inches. Copper

Water treatment is especially critical to aquaculture systems, in this source of water. COPPER SULFATE IS REQUIRED FOR THE TREATMENT OF DIFFERENT GENERA OF ALGAE. The genera of algae listed below are common, found in waters of the James River. They are the brown, red, green, blue, and diatoms. First, Part 10 says remove orange, blue, green, and the higher genera such as red water (dino flagellates). Always consult State Fish and Game Agency before applying this product. It is toxic to all fish.

Organic Acid	1 to 1 ppm*	1 to 1 ppm*	1 to 1 ppm*	1 to 2 ppm*
Cyanohydrins (Blue Lignum)	Arbutin Amygdalin Aphanizomenon Cassipourea Ceanothus Ficus Rhus	Cyanospermum Cyrtocarpus Ficus	Hamamelis Phytolacca	Cassia Syringa
Cyanohydrins (Green)	Cassia Hypericum Syringa Urtica	Berberis Cassia Ceanothus Diopatra Equisetum Gaultheria Hamamelis Syringa Zygis	Chenopodium Cucurbita Dioscorea Equisetum Gaultheria Hamamelis Syringa Zygis	Andropogon Chenopodium Syringa
Diterpenes (Dark)	Amorpha Fragaria Hamamelis Morus	Gaultheria Hamamelis Syringa Zygis	Andropogon Cynaroides Hamamelis	
Phenols (Fragrant)	Andropogon Lupinus Urtica Vitis	Cassia Cyanospermum Equisetum Hamamelis Morus	Chenopodium Hamamelis Phytolacca	Andropogon Phytolacca

* In Vacuum - 6' 13 seconds @ 7% slope- 13.26 seconds @ 1' 9% slope- 26.18 seconds @ 7%
 1% 2 runs- 39.53 seconds @

A. For Partial Shipworms:—Add ¼ pound of Copper Sulfate to some or drain and flush treated linings with 5 gallons of water. Repeat at 6 month intervals to prevent growth of new ones.

(green, purple, pink)—largest display on

Prepare a solution of 15.0 pounds of sodium chromate in each 25 gallons of water to be used and a separate second solution of 15.0 pounds of Copper Sulfate in each 25 gallons of water to be used. Soak the poled, green plants, butt and down first in the Copper sulfate solution for 3 days, then butt and down in sodium chromate solution for 2 days, and finally turn the plants upside down in the sodium chromate solution for 1 additional day. Remove and reuse plants with clear water.

HOW TO UNDERSTAND SOME KEY FORMULATIONS

If the Berdoxium Medium instructions read 10-15-100, the first figure means the number of pounds of Copper Sulfate Pentahydrate. The second figure means the pounds of hydrated spray line, and the third figure, the gallons of water to be used. Use as a full coverage spray to control.

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 2 1/2 cups Sulfur with a copper, bronze, stainless steel or plastic scraper. Add water to the tank at three-quarters full. Mix on the hydraulic spray line through the scraper, and flush filling the tank with water.

CROPS

Almonds, Apricots, Peaches, Nectarines: Start Not Fungus - Prunus - 10-100
Garden Mixture and apply as a dormant spray in the fall or early spring

Almonds, Apricots, Cherries, Peaches, Mandarins, Plums, Prunes: Brown Flat Blotch - Prepare a 10 to 150 Bordeaux Mixture and apply when buds begin to swell.

Lamora, Oregon, Clingstaff: Phytolacca Sp. Pl. - Prepare a 3-4-150 Bordeaux mixture where there is no history of copper injury or a 3-3-4-150 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) Bordeaux mixture. Spray 6 gallons on each tree 3 to 4 feet high and 2 to 4 gallons on trunk and ground under the tree. If Phytolacca is 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 seasons, apply second application in January or February.

Lemons, Oranges, Grapefruit: Soak Fruit and Leaf Spot (Cercospora) Spray: Mix Zinc and Copper sulfates - Prepare a 3-4-100 (Sulfate) Solution (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) and use 10 to 15 gallons to thoroughly cover each tree. Apply in October, November or December just before or after the rain.

[illegible]**FEED ADDITIVE**

Copper Sulfate is a valuable dietary supplement in animal feeds for cattle, pigs, chickens and other agricultural animals. Please consult your State Agricultural Experiment Station or State Extension Service for guidance in preparing dilutions and formulas.

— WARRANTY —
CONDITION OF SALE:

DIRECTIONS FOR USE of this product are based on field use and tests believed reliable and should be followed carefully. It is, however, impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of Westley Industries, Inc., or the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result.

**ALL SUCH RISKS ARE
ASSUMED BY THE BUYER.**

Wesley Industries, Inc., warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use. Wesley Industries, Inc. make no other warranties, expressed or implied, including **FITNESS OR MERCHANTABILITY**. In no case shall Wesley Industries, Inc. or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by Wesley Industries, Inc., and is accepted as such by the Buyer.

BEST AVAILABLE COPY

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 47916-57	DATE OF ISSUANCE FEB 3 1989
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT Wesley Copper Sulfate Medium Crystals	

NOTICE OF PESTICIDE: ☒ REGISTRATION
☐ REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Wesley Chemical, Inc.
P.O. Box 100
Wesley, Texas 75798

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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.

1. The pesticide is conditionally registered in accordance with FIFRA section 3(c)(2)(B) and you are required to:

2. Submit to the Agency, for registration/reregistration of your product, the data required by the Agency under the registration provisions of FIFRA section 3(c)(2)(B) and the Agency requires all registrants of similar products to submit such data.

3. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase: "EPA Registration No. 47916-57."

b. The label must be revised by adding the statement "May cause skin sensitization in certain individuals" to the precautionary statements section prior to the release of this product into the commercial trade.

4. Submit a copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL **DATE**

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosures

ACCEPTED
with COMMENTS
by EPA Letter Dated:

FEB 3 1989

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, this pesticide
registered under EPA Reg. No.
47916-57

COPPER

SULFATE

MEDIUM CRYSTALS

ACTIVE INGREDIENT:

Copper Sulfate Pentahydrate 99.0%

INERT INGREDIENTS 1.0%

TOTAL 100.0%

(METALLIC COPPER EQUIVALENT 25.2%)

KEEP OUT OF REACH OF CHILDREN
DANGER - PELIGRO

PRECAUCION AL USUARIO: Si usted no lo lee ingles, no use este
producto hasta que le etiqueta haya sido explicado ampliamente.

Statement of Practical Treatment

IF SWALLOWED: Drink promptly a large quantity of milk, egg
whites, gelatin solution, or if these are not available, large
quantities of water. Avoid alcohol.

Note to Physician: Probable mucosal damage may contraindicate
the use of gastric lavage.

IF IN EYES: Flush with plenty of water. Get medical attention.

IF ON SKIN: Remove contaminated clothing. Wash skin with
soap and warm water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give
artificial respiration, preferably mouth-to-mouth. Get medical
attention.

PRECAUTIONARY STATE

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - PELIGRO

Corrosive, causes irreversible eye damage on skin, or on clothing. Protective clothing and rubber gloves, should be worn. May be inhaled, or absorbed through the skin. Causes severe skin irritation. Wash thoroughly with water after handling. Remove contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic life. Do not apply directly to water except as directed in the instructions section. Drift and runoff may be hazardous to fish and aquatic life in nearby aquatic sites. Direct application of this product to aquatic sites may cause a significant reduction in populations of invertebrates, plants and fish. Do not apply to lake or pond at one time in order to maintain oxygen levels due to decaying vegetation. Wait 2 weeks between treatments for oxygen levels to recover.

Trout and other species of fish may be more sensitive than rates recommended on this label, especially in soft waters. However, fish toxicity generally increases as hardness of water increases.

Do not contaminate water by cleaning of equipment or disposal of wastes. Consult your State Fish and Game Commission before applying this product to public waters. Precautions required before treating such waters.

EPA Reg. No. 47916-57

EPA Est. No. 47916-AL-01

NET CONTENTS:

wesley industries, inc.

P. O. BOX 493, MONTROSE, ALABAMA 36559 U.S.A.