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	EPA REGISTRATION N	DATE OF ISSUANCE
US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS	46923-4	NUV 24 1986
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	TERM OF ISSUANCE	
	Con't fional	
NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION	NAME OF PESTICIDE	
(Under the Federal Insecticide, Fungicule,	Car rolls	atc
and Rodenticide Act, as amended)		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	_ 	
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NOTE: Changes in labeling formula differing in substance for		
submitted to and accepted by the Registration Division prior product always refer to the above U.S. EPA registration num		commerce, in any correspondence on this
· · · · · · · · · · · · · · · · · · ·		is how by Boristand // Description during
On the basis of information furnished by the registrant, the the Federal Insecticide, Fungicide, and Rodenticide Act.	above named pesticide i	is hereby Registered/Reregistered uniter
A copy of the labeling accepted in connection with this Reg	ristration/Reregistration	n is returned herewith,
Registration is in no way to be construed as an indorsement health and the environment, the Administrator, on his motion icide in accordance with the Act. The acceptance of any na Act is not to be construed as giving the registrant a right to by others,	n, may at any time susp me in connection with t	end or cancel the registration of a pest- he registration of a product under this
The product is conditionally res s(c)(7)(a) encymond that you:	istore in econ	rdanse vir. 110.% – etion –
1. Swindtypir- all lata required your product on or carried contact. (c) broads on sidder contact to subject to	3) C	
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there specific instruction that we specific instruction that we see that the control in these sites.	o" to "c haxinus	of 5.32 lb per occes

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

°NOV 24 1986

c. Modify first aid for swallowing as follows:

If Swallowed: Drink promptly a large quantity of milk, egg white, 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.

d. Modify pesticide disposal language, replacing "Wastes . . . may be disposed of onsite" with the following:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for quidance.

- e. For large crystals and small crystals, delete reentry statements.
- f. For Granular, Ag Crystals and Powder, delete "D" under General Instructions since those uses are not included elsewhere on labeling.
- g. Delete "Feed Grade" wherever it appears on labeling and replace it with "Fine Crystals."
- 3. Submit one (1) copy of final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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 labeling is enclosed for your records.

We are accepting the following alternate brand names (crystal sizes) under this registration.

Copper Sulfate Fine Crystals Copper Sulfate Ag Crystals Copper Sulfate Granular Copper Sulfate Powder Copper Sulfate Large Crystals Copper Sulfate Small Crystals

Labeling must be as accepted under the conditions of this Notice.

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

Enclosures



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OLD BRIDGE CHEMIC

TACCEPTED

WOV2499604

ACTIVE INGREDIENT:

COPPER SULFATE PENTAHYDRATE
INERT INGREDIENTS:

COPPER AS METALLIC NOT LESS THAN

LESS THAN

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DANGER/PELIGRO PRECAUCION AL USUARIO: SI Usted no lee Ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If splashed in eyes: Immediately flush eyes with planty of water for at least 15 minutes and get medical attention.

If splited on skin: Remove contaminated clothes and shoes and immediately wash skin with soap and plenty of water. See a physician.

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic 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 one-half of take 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, especially 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.

ENDANGERED SPECIES RESTRICTIONS

It is a violation of Federal laws to use any desticide in a manner that results in the death of an endangered species or adverse modification of their habitat.

The use of this product may pose a hazard to certain Federally designated endangered species known to occur in specific areas within the following counties:

STATE	Species	(Bulletin No.)	COUNTY
CALIFORNIA	Solano Grass	(EPA/ES-85-13)	Solano
TENNESSEE	Slackwaler Darter	(EPA/ES-85-04)	Lawrence Wayne Hancock
	Freshwater Mussels	(EPA/ES-85-07)	Claiborne Hawkins Sullivan
ALABAMA	Slackwater Darter	(EPA/ES-85-05)	Lauderdåle Limestone Madison
VIRGINIA	Freshwaler Mussels	(EPA/ES-85-06)	Grayson Smyth Scott Lee Washington

Before using this product in the above counties you must obtain the EPA Bulletin specific to your area. This Bulletin identifies areas within these counties where the use of this pesticide is prohibited, unless specified otherwise. The EPA Bulletin is available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, or the appropriate Regional Office of the U.S. Fish and Wildlife Service. THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE



D.O.T. HAZARD CLASS ORM-E NA 9109 RQ 10/4.54

EPA Reg. No. 46923-4 EPA EST. NO. 46923-NJ-01

OLD BRIDGE CHEMICALS, INC.

P.O. Box 194 Old Bridge, New Jersey 08857

NET WT. 50 LBS. (22.7 Kilos)

(See Back Panel for Directions For Use)

COPPER SULFATE

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers for other persons. The area being treated must be vacated by unprotected persons. Do not protective clothing until sprays have dried. Certain states require more restrictive reentry intervals for various crops treated with this product. Consult your state Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written and oral warnings must include the following information: DANGER: Area treated with Copper Sulfate on (date of application). Do not enter without appropriate protective clothing until sprays have dried. Required Protective Clothing: long sleeved shirt and long legged pants. In case of accidental exposure, wash all exposed skin areas with plenty of soap and water. Because cenain states may require restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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 tape. Wastes resulting from the use of this product may be disposed of on site or at an approved waste also possible facility.

president disposal: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfull or by incineration if allowed by State and local authorities.

FOR CONTROL OF ALGAE AND POTOMOGETON POND WEEDS IN IMPOUNDED WATERS, LAKES, PONDS, RESERVOIRS AND IRRIGATION SYSTEMS.

GENERAL INSTRUCTIONS

Material Control of the Control of Control

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

When using Old Bridge Cooper Sulfate Pentahydrate to control signer, there are many factors to consider such as water hardness, ten:perature 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 Cooper Sulfate is made soon after plant growth has started. Under such circumstatices, small amounts of Copper Sulfate can effectively control algae in water. However, if trustment 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 Sullate when water temperatures are low. The dose rates for Old Bridge Copper Sulfate are based on a water temperature of 60 F, or higher Larger quantities of Copper Sulfate will be required in hard der. 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 Instruent 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 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 killed.

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

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 the per cubic foot per second of water per treatment. Repeat at approximate two week intervals as required. Depending on water hardness, alkalinity and algae concentration, 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 exceeds approximately 150 ppm as CaCO₁.

TO CONTROL ALGAE IN IMPOUNDED WATER, LAXES, PONDS, AND RESERVOIRS:



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 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

TO CONTROL TADPOLE SHRIMP IN RICE FIELDS (Domestic and Wild): Application should be made to the flooded fields any time the pest appears from planting time until the seedlings are well rooted and have emerged through the water. Apply 5-10 pounds Copper Sulfate Pentahydrate crystals per acre. The use rate per acre should be determined by the water depth and flow. Use the tower rate at minimum flow and water depth and the higher rate when water depth and flow are maximum.

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 soil waters (less than 50 ppm methyl orange alkalinity) and the 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)	Vi to Vippm* Anabaena Anacystis Aphanizomonon Gloeotrichia Gomphosphaniia Polycystis Rivularia	Vi to 1 ppm* Cylindrospermum Oscillatoris Plectonema	1 to 1½ppm* Nostec Phormidium	1¼ to 2 ppm* Calcithrix Symptoca
Chlorophyceae (Green)	Closterium Hydrodictyon Spirogyra Ulothrix	Botryococcus Cladophora Coelastrum Draparnaldia Enteromorpha Gloeocystis	Chlorella Crucigenta Desmidium Golenkinia Oocystis Palmella	Ankistrodesmus Chara Nitella Scenedesmus

A. Calculate water volume as follows:

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- Obtain surface area by measuring regular shaped ponds or mapping irregular ponds or by use of previously recorded data or maps
- Calculate everage depth by sounding in a regular pattern and taking the mean of these readings or by use of previously recorded data.
- Multiply surface area in square feet by average depth in feet to obtain cubic feet of water volume, or
- Multiply tiurface area in acres by average depth in feet to obtain total acre feet of water volume.
- L 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 to 0.000001 as a decimal atus. 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 lbs Copper Sulfate Pentahydrate.
- D. To calculate water flow in ditches, streams and irrigation systems: A wair or other measuring device should be used to determine the amount of water in cubic feet per second.

Treatment of algae can result in oxygen loss from decomposition of dead algae. This loss can cause fish suffication. Therefore, to minimize this hazard, Ireal ½ to ½ of the water area in a single operation and wait 7 to 14 days between treatments. Begin breatments along the shore and proceed outwards in bands to allow lish to move into unfreeded 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

TO CONTROL ALGAE AND THE POTOMOGETON POND WEEDS, LEAFY AND SAGO, IN IRRIGATION SYSTEMS: Once the amount of Copper Sulfate required for Irreating disches or streams has been calculated, use a continuous application method, selecting proper equipment to supply Copper Sulfate granular crystats as follows.

FOR ALGAE CONTROL—Begin continuous addition of granular Copper Sulfate when water is first turned into the system and continue throughout the irrigation system, apply-

ing 0.1 to 0.2 pounds per cubic foot per second per day.

**RLEAFY AND SAGO POND WEED CONTROL—Use the sarile continuous feeder, ying 16 to 24 pounds Copper Sulfate Pentahydrate per cubic foot per second per way. NOTE: For best control of leafy and sago pond wend, it is assential to begin Copper Sulfate additions when water is first turned into the system or ditch to be treated and to continue through the tirtigation system. Copper Sulfate becomes less effective as the alkalinity increases its effectiveness is significantly reduced when the bicarbonate alkalinity exceeds 150 ppm. Should Copper Sulfate fall to control pond weeds satisfactorify, it may be necessary to treat the ditch with either a suitable approved herbicide or use a mechanical means to remove excess growth. In either case, resume Copper Sulfate addition as soon as possible.

	əşəreyyra Ufolhrix	Oraparnaldia Enterpretipha Gloeocystis Microspora Tribonema Zygnema	Gesmidium Gofenkina Oocystis Palmella Pithophora Staurastrum Tetraedron	Niiglia Scenedesmus
Diatomaceae (Diatoms)	Asterionella Fragilaria Melorisa Navicula	Gomphonema Nitzschla Stephanodiscus Synedra Tabellaria	Achnanthes Cymbelia Neidium	
Protozoa (Flageliates	Dinobryon Synura Uroglena Volvox	Ceratium Cryptomonas Euglena Glenodinium Mallomonas	Chlamydomonas Hawmatococcus Peridinium	

1/4 - 1/2 ppm= 67 - 13 lbs/acre ft 11/4 - 1 ppm= 1.3 - 2.6 lbs/acre ft. 11 - 11/2 ppm= 2.6 - 39 lbs/acre ft.

*11/2 - 2 ppm = 39 - 532 lbs/acre ft

CONDITIONS OF SALE LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions for use of this product reflert the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as wealther conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Old Bridge or the seller. All such risks shall be assumed by the purchaser and user

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 inherent risks referred to above. Old Bridge makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, and no such warranties shall be implied by the law

The exclusive remedy against Old Bridge for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against Monterey Chemical Company exceed the price of the product which causes the alleged loss, damage, Injury, or other claim. Old Bridge shall not be liable and any and all claims against Old Bridge are waived, for special, indirect, inclidental, or consequential damages or expenses, of any nature, including, but not limited to, loss of profits or income, and crop or property loss or damage, whether or not based on Olb Bridge's negligence, breach of wairanty, strict liability in lort or any other cause of action.

Old Bridge and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies which may only be varied by agreement in writing signed by a duly authorized representative of Old Bridge.

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



Manufactured by

OLD BRIDGE CHEMICALS, INC.

P.O. Box 194 Old Bridge, New Jersey 08857

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 to spray this solution over the body of water. A small pump mounted in the boat can easily be used for this purpose. Fine crystals may be broadcast directly on the water surface from a properly equipped boat. Old Bridge Copper Sulfate Ag Crystals, Feed Grade or Powder 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 Ag Crystals and Granular grades are also designed to be used as a dry application from airplanes using 6 pounds per acre. See Where the situation permits, Copper Solfate may be applied under the water by dragging burlap bags containing Copper Sulfate. The crystals are placed in burlap bags and dragged through the water by means of a Begin treatment along the shoeline and proceed outward until one-third to one-half of the total area has been treated. Care should be taken that the course of the boat is such as to cause even distribution of the chemical. In large lakes, it is customary for the boat to travel in parallel lines about 20 to 100 feet apart. Continue dragging the burlap bags over the treated area until the minimum dosage is achieved and all crystals have been dissolved. Old Bridge Copper Sulfate Large Crystals or Small Crystals should be used for this method since they dissolve slowly and evenly.

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OLD BRIDGE CHEMICALS

ACCETTED WINDS

GOFF SMALL GRY

ACTIVE INGREDIENT

COPPER SULFATE PENTAHYDRATE

INERT INGREDIENTS:

COPPER AS METALLIC NOT LESS THAN

99.0%

1.0%

25.2%

DANGER/PELIGRO PRECAUCION AL USUARIO: Si Usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If attailowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give enything by mouth to an unconscious person.

Maglashed in ayes, named area and in a service. stached in eyes: Immediately flush eyes with plenty of water for at least 15 minutes

If sallied on skin: Remove contaminated clothes and shoes and immediately wash skin with soop and plenty of water, See a physician.

PRECAUTIONARY STATEMENTS

Hazarda to Humana & Domestic Animais

Danger: Causes severe eye and akin irritation. Harmful if absorbed through the skin or inheled. May cause akin syntaltization reactions in certain individuals. Avoid contact with the aidn, eyes or clothing. Avoid breathing dust. Protective clothing, including gaggies, should be worn. Wast thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This posticide is toxic to fish and aquatic organisms. Do not apply directly to water second an 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 one-half of lake of pand at one time in order to avoid depiction of daygen 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, especially in soft or acid waters. However, fish toxicity generally decreases when the hardness of water increases. Do not contaminate water by cleaning of equiprnent 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.

ENDANGERED SPECIES RESTRICTIONS

It is a violation of Federal laws to use any posticide in a manner that results in the death of an endangered species or adverse modification of their habitat.

The use of this product may pose a hazard to certain Federally designated endangered species known to occur in specific areas within the following counties:

STATE	Species	(Bullelin No.)	COUNTY
CALIFORNIA	Solano Grass	(EPA/ES-85-13)	Solano
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ALABAMA	Stackwater Darter	(EPA/ES-85-05)	Lauderdale Limestone Madison
VIRGINIA	Freshwater Mussels	(EPA/ES-85-06)	Grayson Smyth Scott Lee Washington

Before using this product in the above counties you must obtain the EPA Bulletin specific to your area. This Bulletin identifies areas within these counties where the use of this posticide is prohibited, unless specified otherwise. The EPA Bulletin is available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, or the appropriate Regional Office of the U.S. Fish and Wildlife Service. THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE



D.O.T. HAZARD CLASS ORM-E NA 9109 RQ 10/4.54

EPA Reg. No. 46923-4 EPA EST. NO. 46923-NJ-01

OLD BRIDGE CHEMICALS, INC.

Old Bridge, New Jersey 08857

NET WT. 50 LBS. (22.7 Kilos)

- For Use

O OLD BRIDGE CHEMICALS, INC.

ACCEPTET

THE REPORT OF THE PARTY OF THE

G G GRADE FEED GRADE (mesh: -35)

ACTIVE INGREDIENT: 99.0% COPPER SULFATE PENTAHYDRATE 1.0% **INERT INGREDIENTS:** COPPER AS METALLIC NOT LESS THAN 25.2%

DANGER/PELIGRO PRECAUCION AL USUARIO: Si Usted no lee ingles, no use este producto hasta que le etiqueta hava sido explicado ampliamente.

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D.O.T. HAZARD CLASS ORM-E NA 9109 RQ 10/4.54

EPA Reg. No. 46923-4 EPA EST. NO. 46923-NJ-01

OLD BRINGE CHEMICALS, INC.

P.O Box 194 Old Bridge, New Jersey 68857

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

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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. Showel any spills into plastic bag and seal with tape. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal: Completely empty finer by shaking and tapping sides and bottom to loosen chaging particles. Empty residue into application same ment. The indispose of liner in a sandary landfill or by incineration if allowed by State and local authorities.

GENERAL INSTRUCTIONS

MEDITROL ALGAE IN IMPOUNDED WATER, LAKES, PONDS, AND RESERVOISS.

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

When using Old Bridge Copper St. "ale Printahydrate 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. Afgae can be controlled more easily and effectively if treatment with Copper Sulfate is made soon after plant growth has started Under auch circumstances, small amounts of Copper Sulfate can effectively control algae in water However, it treatment is delayed until large amounts of aligne are present, larger quantities of Copper Suffets 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 Old Bridge 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, curtail the flow of water before freatment 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 enameted are permissible. Galvanized containers are to be avoided. It is usually trest 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:
 - 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 medings of by use of predictely recorded data.

COPPER SULFATE REGUINED FOR TREATMENT OF DIFFERENT GENERA OF ALGAE: The general of aligne lighted below and commonly found in waters of the United States. Use the lower recommended rate in soft waters (less than 50 ppm methy) orange alikatinity; and the higher connected rate in soft water (above 50 ppm alikatinity). Always consult State Fish and Game Agency before applying this product to municipal waters.

ORGANISM Cyanontryceas (Blue Green)	Vi to Vippm' Anabagna Anacystis Aphanizemenon Gloedrichia Gomphosphaeria Polycystis Rivularia	Vs to 1 ppm* Cylindrospermum Oscillatoris Plectonema	I to 1's ppm* Nostoc Phermidium	1½ to 2 ppm* Galothrix Symploca
Chlorophycene (Green)	Closterium Hydrodictyon Spirogyra Ulothrix	Brityococcus Cladophora Coolastrum Draparnaldia Enteromorpha Glorocystis Microspora Tribonema Zygnuma	Chlorella Crucigenia Desmidium Golerikinia Cxxyslis Palmella Pithophiora Stautastrum Telraedron	Ankistrodesmus Chara Nitelia Scenedesmus
Diatomaceae (Diatoms)	Asterionella Fragilaria Melorisa Navicula	Gomphonema Nitzschia Stephanodiscus Synedra Tabellaria	Achnanthes Cymbella Nexfium	
Protozoa (Flagellates	Diriobryon Synura Uroglena Volyox	Cerallum Cryptomonas Euglena Glemodinium Mationionas	Chlemydomonas Hawmalucoccus Peridinium	Eudorina Pandorina

4 - Vsppm= 67 - 13 lbe/acre ft **Vs - Ippm= 13 - 26 lbe/acre ft **1 - IVsppm= 26 - 39 lbe/acre ft **Vs - 2 ppm= 38 - 532 lbs/acre ft *

SEWER TREATMENT-ROOT DESTROYER

- A. For Partial Stoppage—Add vs pound of Copper Sulfate to sewer or drain and flush toward blockage with 5 gallons of water. Repeat at 5 month intervals to prevent growth of new roots.
- B. For Complete Stoppage—Physically remove the root blockage and repeat as above.

WOOD TREATMENT (green, peeled posts)—fungus decay rot.

Prepare a soluting of 180 pounds of sodium chromate in each 26 gallons of water to be used and a separate second solution of 180 pounds of Copper Sulfate in each 24 gallons of water to be used; soak the peeled, green posts, butt and down first in the copper sulfate solution for 3 days, then bull and down in sodium chromate solution for 2 days, and finally, turn the posts upside down in the sodium chromate solution for 1 additional

BORDEAUX MIXTURE

HOW TO UNDERSTAND BORDEAUX FORMULATIONS:

If the Bordeaux Mixture instructions read 10-t0-100, the first figure means the number of pounds of Copper Sulfate Pentahydrate. The second figure means the pounds of hydrated spray time, and the third figure, the gallons of water to be used. Use as a full coverage spray to runof!

HOW TO PREPARE A BORDEAUX MIXTURE:

day. Remove and rinse posts with clear water.

To prepare a Bordmaux Mixture, fill a tank with water, one-quarter full. Then with an agitator running, mix Old Bridge Copper Sulfate through a copper, bronze, stantess 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 with the stantest of the screen.

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water volume

R. 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 feel by 2,720,000 to obtain total counds of water

C. Calculate amount of Copper Sulfate Penlahydrate to add: To calculate the weight of Copper Sulfate Penjahydrate needed to achieve the desired concentration, multiply the weight of water in bounds by the recommended concentration. Since the recommended concern rations are given in parts per million (nom), first convert the value to a decimal equivale 4. A value of 1 ppm is equivalent to 0,000001 as a decimal value. Thus the amount of Copper Sulfale Pentahydrate required to treat 1 acre-tool (2.720,000 pounds) of water with 1 ppm of Copper Sulfate Pentahydrate would be: 0000001 x 2,720,000 = 2.72 lbs Copper Sulfato Pentahydrate

To calculate water flow in ditches, streams and trrigation systems:

A west or other measuring device should be used to determine the amount of water in cubic feet per second.

Treatment of algae can result in oxygen loss from decomposition of dead algae. This loss can cause fish sufficiation. Therefore, to minimize this hazard, treat Vi to 95 of the water area in a single operation and wait 7 to 14 days between treatments. Begin treatments along the shore and proceed outwards in bands to allow lish to move into

HOTE: 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 Pentallydrate)

SPECIFIC INSTRUCTIONS

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



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 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

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 rice fields. Copper Sulfate should be applied at a rate of 10 to 15 pounds per acre by mixing with +0 qafs, of water and applying as a uniform surface spray using boat, plane or other professional means and pressurized spray device. This product is 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 field has been flooded to a depth of 6 to 8 inches. Old Bridge Copper Suffate Pentahydrale is especially made for maximum. solubility in this volume of water.

Almonds, Apricots, Peaches, Nectarines: 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, Nectarines, Plums, Prunes: Brown Rot Blossom Blight - Prepare a 10-10-100 Bordeaux Mixture and apply viten buds begin to swelf.

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.

Lemons, Oranges, Grapefruit: Phytophthora Brown Rot - Prepare a 3-41/2-100 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 P. hibernalis 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 season, apply second application in January or February.

Lemons, Oranges, Grapefrult: Septoria Fruit and Leaf Spot (Central California), Brown Rot, Zinc and Copper deficiencies - Prepare a 3-2-6-100 Bordeaux Mixture (Zinc Sulfate-Copper Sullate-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.

Walnuts: Walnut Blight - Apply 15 pounds Copper Sulfate with 10 pounds of Hydrated Lime in 100 gallons of water plus 1/2 gallon summer oil emulsion. Apply in early pre-bloom 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-phylotoxic in your area.

CONDITIONS OF SALE LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Old Bridge or the seller. All such risks shall be assumed by the purchaser and user.

Old Bridge warrants that this product conforms to the chemical description on the label and is reasonably lit for the purpose referred to in the directions for use subject to the inherent risks referred to above. Old Bridge makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. and no such warranties shall be implied by the few.

The exclusive remedy against Old Bridge for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other hecovery of any kind against Monterey Chemical Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Old Bridge shall not be kable and any and all claims against Old Bridge are waived, for special, indirect, incidental, or consequential damages or expenses, of any nature, including, but not limited to, loss of profits or income, and crop or property loss or damage, whether or not based on Olb Bridge's negligence, breach of warranty, strict liability in fort or any other cause of action.

Qld Bridge and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies which may only be varied by agreement in writing signed by a duly authorized representative

> EPA Reg. No. 46923-4 EPA Est. No. 48923-NJ-01



Manufactured by

OLD BRIDGE CHEMICALS, INC.

P.O. Box 194 Old Bridge, New Jersey 08857 IN CONTROL BEGAR IN THEODYDED WATER, DAKES, PONDS AND RESERVOIRS:

There are several methods by which to apply Old Bridge Copper Sulface 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. Fine crystals may be broadcast directly on the water surface from a properly equipped boat. Old Bridge Copper Sulfate Ag Crystals. Feed Grade or Powder 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 Ag Crystals and Granular grades are also designed to be used as a dry application from airplanes using 6 pounds per acre, Where the situation permits, Copper Sulfate may be applied under the water by dragging burlap bags containing Copper Sulfate. The crystals are placed in burlap bags and dragged through the water by means of a Begin treatment along the shoeline and proceed outward until one-third to one-half of the total area has been treated. Care should be taken that the course of the boat is such as to cause even distribution of the chemical. In large lakes, it is customary for the boat to travel in parallel lines about 20 to 100 feet apart. Continue dragging the burlap bags over the treated area until the minimum dosage is achieved and all crystals have been dissolved. Old Bridge Copper Sulfate Large Crystals or Small Crystals should be used for this method since they dissolve slowly and evenly.

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DANGER/PELIGRO PRECAUCION AL USUARIO: Si Usted no lee ingles, no use este producto hasta que le etiqueta trava sido explicado ampliamente. hava sido explicado ampliamente.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If sweltowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If splashed in eyes: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

if spliled on skin: Remove contaminated clothes and shoes and immediately wash skin with soap and plenty of water. See a physician.

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 sensilization reactions in certain individuals. Avoid contact with the skin, eyes or clothing. Avoid breathing dust. Protective clothing, including goggles, should be worn. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This posticide is toxic to lish and aquatic organisms. Do not apply directly to water except as directed under the specific instructions section. Orift and runoff from treated areas may the hazardous to lish and aquatic organisms in adjacent aquatic sites. Direct application of copper sulfate to water may cause a significant reduction in populations of aquatic rivertebrates, plants and fish. Do not treat more than one half of take 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, or pecially in soft or acid waters. However, fish toxicity generally decreases when the handness of water increases. Do not contaminate water by cleaning of equipment or disc., sal of wastes, Consult your State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

ENDANGERED SPECIES RESTRICTIONS

It is a violation of Federal laws to use any pesticide in a manner that results in the death of an endangered species or adverse modification of their habitat.

The use of this product may pose a hazard to certain Federally designated endangered species known to occur in specific areas within the following counties:

STATE	Species	(Bulletin No.)	COUNTY
CALIFORNIA	Solano Grass	(EPA/ES-85-13)	Solano
TENNESSEE	Slackwater Darter	(EPA/ES-85-04)	Lawrence Wayne Hancock
	Freshwater Mussels	(EPA/ES-85-07)	Calborne Hawkins Sullivan
ALABAMA	Slackwater Darter	(EPA/ES-85-05)	Lauderdale Limestone Madison
VIRGINIA	Freshwater Mussels	(EPA/ES-85-06)	Grayson Smyth Scoll Lee Washing'on

Before using this product in the above counties you must obtain the EPA Bulletin specific to your area. This Bulletin identifies areas within these counties where the use of this pesticide is prohibited, unless specified otherwise. The EPA Bulletin is available from either your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, or the appropriate Regional Office chille U.S. Fish and Wildlife Service. THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE



D.O.T. HAZARD CLASS ORM-E

NA 9109 RQ 10/4.54 EPA Reg. No. 46923-4 EPA EST. NO.

46923-NJ-01

OLD BRIDGE CHEMICALS, INC.

P.O. Box 194 Old Bridge, New Jersey 08857

NET WT. 50 LBS. (22,7 Kilos)

(See Back Panel for Orections For Use)

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D.O.T. HAZARD CLASS ORM-E NA 9109 RQ 10/4.54

EPA Reg. No. 46923-4 EPA EST. NO. 46923-NJ-01

OLD BRIDGE CHEMICALS, INC.

P.O. Box 194 Old Bridge, New Jersey 08857

O OLD BRIDGE CHEMICALS, INC.

TACCEPTE OF OUT OF WOVE 4 1980 OF

COPPER POWDER

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ACTIVE INGREDIENT:

COPPER SULFATE PENTAHYDRATE

99.0%

INERT INGREDIENTS:

1.0%

COPPER AS METALLIC NOT LESS THAN

25.2%

DANGER/PELIGRO

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