

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

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MAY 1.7 Cost

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Helene Opperman CALABRIAN INTERNATIONAL CORP. 15,600 J. F. KENNEDY BLVD, SUITE 570 HOUSTON, TX 77032

Subject:

Label Amendment Submission of 03/03/94 in Response to PR Notice 93-7

EPA Reg. No. 39295-8

CALCO COPPER SULFATE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief Registration Support Branch

Registration Division (7505W)

Attachment

MAY 1 7 1994

Under the Federal Insecticide, Fundicide, and Hodenticide Act an amended, for the pesticide registered under EPA Reg. No. 3 9295-8

PRECAUTIONARY STATEMENTS HAZAROS TO HUMANS (& DOMESTIC ANIMALS)

PRECAUTIONARY STATEMENTS:
Hazard to Humans & Domestic Animals.
Corresive, irritant, Fatal of Swallowed.
Do not get in eyes, on skin. or on clothing. Do not breathe dust or spray mist.

PERSONAL PROTECTIVE ECHIPMENT: Applicators and Other Handlors Must Wear: A. Chemical-Resistant Protective Suit.

- Waterproof Gloves. Chemical-Resistant Footwear Plus Socks.
- Protective Eye Wear. Chemical-Resistant Head Gear for Overhead
- exposure, and Dust/Miss Filtering Respirator (MSHA/NIOSH) Approval Number Prefix TC 21C)

USER SAFETY RECOMMENDATIONS:

- Users Should

 Wash hands before eating, drinking, chewing gum, using tobacco, or using the
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothes.

ENVIRORMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuan oceans, or public water unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For cuidance contact your State Water Board or Regional Office of the EPA. Drift and runoff from treatment of terrestrial sites may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwater. Direct application of cooper suifate 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 from decaying vegetation.
Allow 1 to 2 weeks between treatment for oxygen levels to recover. Trout and other species of fish may be lailed at application rates recommended. on this label, especially in soft or acid waters. However, fish toxicity generally decrease when the hardness of water increases. Consult your State Fish and Game Agency before applying this product to public waters. Permits may be required before treating such waters.

STORAGE AND DISPOSAL

itions: Do not contaminate water, food or feed by storage or disposal. Open burning and diamoing is pronibited. Do not reuse empty

container Sterage: Keep pesticide in original container. Do not put concentrate in food or drink container Pessiciée Dispessi: Pesticide, soray mixture, insale that cannot be used in accordance with label instructions must be disposed of according to Frueral, State or Local procedur's under the Resource Conservation and Recovery Act Cantainer Dispesal: Rinse container liner with

eater and add nosate to use solution or completely empty bag by shaking and tapping edges and bottom to loosen chiging particles. Empty residue into auc; crition equipment. Dispose of polywoven n accordance with Federal. State, or Local ionities for approved procedures accordi the Resource Conservation and Recovery Act

BRAND NAME Calco Copper Sulfate

ACTIVE INGREDIENTS: 99.0% Copper Sulfate Pentahydrate 1.0% **INERT INGREDIENTS:** 100% 25.0% Copper As Metallic, Not Less Than

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).

STATEMENT OF PRACTICAL TREATMENT CALCO COPPER SULFATE

IF SWALLOWED: Give 2-4 glasses of water or milk and remove by gastric cleansing.

Get medical attention immediately. Never give anything by mouth to an unconscious person.

IF INHALED:

Remove from exposure to fresh air immediately. Crive artificial Respiration if breathing has stopped. Oxygen may be given by qualified personnel if breathing is difficult. Keep affected person warm and quiet. Get medical attention

immediately. IF ON SKIN:

Wash affected area with soap or mild detergent and large amounts of water. Get medical attention

immediately.

IF IN EYES: Flush eyes immediately with large amounts of water. Get medical

attention

Manufactured for Calabrian International Corporation 265 Davidson Ave., Somerset, New Jersey 08873 EPA Est. No.: 39295-PE-001 EPA Registration No., 39295-8

NET CONTENTS, 50 LBS Net Weight

DIRECTIONS FOR USE

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

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 of 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 Protective Equipment (PPE). The requirements in this box only apply to uses of this product that are covered by The Worker Protection Standard.

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 (Reg's, specific to your state or tribe, consult the agency responsible for pesticide regulation.

Do not enter or allow workers to enter into treated areas during The Restricted Entry Interval (REI) of 24 hours.

PPE required for early entry to 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:

- Chem:cal-Resistant Protective Suit.
- Waterproof Gloves,
- Chemical-Resistant Footwear Plus Socks.
- Protective Eye Wear, and
- Chemical-Resistant Head Gear for Overhead Exposure.

CALCO COPPER SULFATE ALGAECIDE GENERAL INSTRUCTIONS.

There are many factors to consider in controlling argae in impounded water, lakes, ponds, reservoirs, and fooded rice fields. These include water temperature and flareness type of vegetation to be controlled, and the water flow A small amount of Copper Surface can effectively controlled agine. In water provided the aligae growth is treated early in the development. If large amounts of aligae are present, larger quantities of Copper Sulfate will be required. In moving water systems, control of aligae is more difficult than in a body of stagnant water. In this situation, curtail the flow of water before treatment and hold dormant for approximately, three days after treatment of until the vegetation has begun to die. Copper Sulfate works effectively th water temperatures above 60°F and in low hardness water. Mix Copper Suitate in a glass or plastic container if a metal container is used, make certain it is either painted, copper fined, or enameted since Copper Suitate causes a chemical reaction with a galvanized container. and the copper plates out on the container. To minimize the possibility of fish kell that could be caused by the loss of oxygen in the water from the deed algae treat up to 1/3 or 1/2 of the water area at a time and wait and proceed outwards. Consult State fish and game agencies before applying. If treated we is to be used as a source of porable water the meta-lic copper residual must not exceed 1 PPM (4 PPM Copper Suitate Pentahydrate).

SPECIFIC INSTRUCTIONS:

Calculations for the Amount of Water Impounded and for the Amount of Copper Sulfate to be Used.

- 1. Obtain surface areas by measuring of regular shaped ponds or mapping of irregular ponds or by reference to previously recorded engin
- 2. Calculate average depth by sounding in a regular pattern and taking the m
- 3. Multiply surface area in feet by average depth and feet to obtain cubic feet of w
- 4. Multiply surface area in acres by everage depth and feet to obtain total acre-lest of water volum
- me the number of acre feet of water to be treated. An acre foot of water is equal to one acre of water one foot deep which equals 32%,000 gallons or 2,720,000 pounds. Multiply volume in cubic feet by \$2.44 to obtain listed pounds of water or multiply volume in acre feet by 2,720,000
- to obtain pouries or wells.

 C. Netermine the Copper Suitate Pensahydrase needed to achieve the recommended concentration, murapy are weight or many in the concentration of Copper Suitate. Since recommended concentrations are narrously given in nexts per million (ppm) it will first be necessary concentration of Copper Suitate. Since recommended concentrations are narrously given in nexts per million (ppm) it will first be necessary concentration of Copper Suitate. Since recommended concentrations are narrously given in nexts per million (ppm) it will first be necessary concentration of Copper Suitate. Since recommended concentrations are narrously given in nexts per million (ppm) it will first be necessary. to convert the value in parts per million to decimal equivalent. For example, 2 gpm in the same as 0,00002 when used in this calculation. Therefore, to calculate the amount of Copper Sultate Portahydrate to treat 1 acre-tool of water with 2 ppm Copper Sulfate the calculation would be as follows:

 0,000002 x 2,720,000 = \$.44 fbs. Capper Sulfate Portahydrate

Please note that the rate of application of Coppur Sulfate in suit water should not exceed 2 ppm.

For Algae Control in Impaunded water, leses, ponds, and reservoirs:
Determine the amount of CALCO Copper Sulfate to be added and dissolve the crystals in water and apray over the area to be treated. Apply the mixture as a uniform surface spray using a boal or a pressure spraying device. Where the situation permits, Copper Sulfate may be applied under the water by boat by dragging burfap bags containing medium to large crystals of Capper Sulfate. Begin treatment along the shcretine and proceed outward and make certain even distribution is achieved by travelling in parallel lines about 20-100 feet apart.

For control of Tadpole Shrimp in flooded rice fields:
Apply CALCO Copper Sullate at a rate of 10-15 pound per acre by mixing with 500 perts of water and applying as a uniform surface spray using boat and pressurized spraying device. Use at first indication after the field has been flooded to a depth of 6-8 inches.

Calculation of water flow in ditches, streams and irrigation systems:
The amount of water flow in cubic feet per second is found by means of a weir or other measuring device. Determine the amount of CALCO Copper Sulfate required for treating disches or streams and use a continuous application method, selecting proper equipment, to add the Copper Sulfate.

For Algae control in irrigation systems:
Use a continuous leader application method by applying 0.1 to 0.2 pounds of CALCO Copper Sulfate per cubic foot per second per http://
Continuous addition when water is first turned into the system and continue throughout the irrigation season.

For leafy and sage poind weed control in irrigation systems:
Use a continuous leader application system by applying 0.25-0.50 pounds of CALCO Copper Sulfate per cubic fool per second per hour. It is best to apply the Copper Sulfate crystats when the water is first turned into the system or datch to be treated and to continue throughout the impaction season.

To Control Algor in Irrigation conveyance systems using the stug application method:

Apply copper sulfate at a rate of 0.25 lb, per CFS flow. Place chemical in burlap bag in an area of turbulent flow and repeat every 10 to 14 days in warm weether. An application is usually required every 5 to 30 miles depending upon alkalonity and algae concentration in the water.

SEWER TREATMENT-ROOT DESTROYER:

CALCO Copper Sulfate is an effective root destroyer, For a partial storpage, add a minimum of two pounds of CALCO Copper Sulfate to the sever or drawn and flush loward the blockage with five gallions of water. Repeal every six months to prevent growth of new roots. For a complete stoppinge of sever or drawn, remove the blockage physically and repeal the preceding procedure.

WOOD TREATMENT (Green, peeled posts and fungus decay, rot):
Prepare a solution 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, buttened down first in the Copper Sulfate solution for three days, then buttlend down in the Sodium Chromate solution for two days, and finally, turn the posts upside down in the Sodium Chromate solution for two days, and finally, turn the posts upside down in the Sodium Chromate solution.

BOADEAUX MIXTURE GENERAL INSTRUCTIONS:

A Sordeeux formulation consists of three numbers such as 10-10-100. The first figure (10) represents the number of pounds of Copper Sulfate Pentahydrate; the second figure (10) represents the pounds of hydrated time, and, the third figure (100) represents the number of gallons of water to use. Use as a full coverage spray to runoff. Prepare a Bordeeux mixture first with a tank of water, 1/2 full. With an apitator running, mix CALCO Copper Sulfate through a copper, bronze, plastic, or stainless steel acreen. Add water so the tank is 3/4 full and milk in the hydrated lime through the screen. Finish filling the tank with the balance of water.

Shot Hole Fungus on Almonda, Peaches, Apricots, Nectarines: Prepare & 10-10-100 Bordeaux and apply as a dormant spray in late fall or early spring.

Brown Rot Blossom blight on Almonda, Apricots, Cherries, Peaches, Nectarines, Plums, Prun Prepare a 10-10-100 Bordeaux and apply when the buds begin to swell.

Leaf Spots on Sour Chemies:

Prepare a 10-10-100 Bordeaux and apply as a full coverage spray after petal fall or as recommended by the State exic asion se-

Prepare a 3-4½-100 Bordeaux where there is no history of Copper rejury or a 3-2-4-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-gailtons of water) Bordeaux. Spray 6 gallons on skirt of tree 3-4 feet high end 2-4 gallons on frunk and ground under tree. M P historinalis is present, use 10-15 gallons to completely cover each tree. Apply in November or December just begins are after first rain. In severe brown rot season, apply second application

Septeria Fruit and Lasf Spot, Central California and Brown Rot and Zinc and Copper Deficiencies on Lemons, Oranges, and Grapefruit: Prepare a 3-2-5-100 Bordeaux and use 10-25 gailons to completely cover each tree. Apply in October, November, or December before or just after the first rain.

Prepare a 10-10-100 Bordeaux plus one half gallon summer oil emulsion. Apply in early prebloom 10-20% pis illate (not when catkin blooms are showing) before or after rain. Use only if Bordeaux mixture has been shown to be non-phytotoxic in your area

HOTICE TO BUYERS:

or makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of and/or handling of this material when such use and/or handling is contrary to label instructions.



CALABRIAN INTERNATIONAL CORPORATION 265 DAVIDSON AVE , SOMERSET, NEW JERSEY 08873

