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Calco Copper Sulfate

**50 LBS. NET WEIGHT** 

# SE AND STORAGE BY SERVICE PERSONNEL

CHILDREN

**ACTIVE INGREDIENT:** Copper Sulfate Pentahydrate INERT INGREDIENTS:

99.0% 1.0%

Total

100.0%

Copper as metallic, not less than

25.0%

DANGER! HAZARD TO HUMANS AND DOMESTIC ANIMALS. CORROSIVE. IRRITANT. FATAL IF SWALLOWED.

This product can cause severe eye and skin irritation. Harmful if absorbed through the skin or inhaled. Some individuals may experience an allergic reaction. Do not get in eyes, on skin, or on clothing. Do not breathe dust or spray mist. Wear protective pervious) clothing, goggles or face shield, and rubber gloves when handling. Wash thoroughly with soap and water after ling. Remove contaminated clothing and wash before reuse.

# STATEMENT OF PRACTICAL TREATMENT:

In case of eye contact, hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. Skin contact: Wash with plenty of soap and water. Get medical attention if irritation persists. If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with ringer, or, if available by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

# **ENVIRONMENTAL HAZARD:**

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, 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 guidance contact your State Water Board or Regional Office of the EPA. Drift and rumbff from treatment of terrestrial sites may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not containing if evaler when disposing of equipment washwater. 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 or pond at one time in order to avoid depletion of navgen from decaying vegetation. Allow 1 to 2 weeks between treatment 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 tokicity generally decreases the hardness of water increases. Consult your State Fish and Game Agency before applying this product to public waters. Perants may be required before treating such waters.

# Manufactured for Calabrian International Corporation

265 Davidson Ave. Somerset, New Jersey 08873 EPA Est. No.: 39295-PE-001 EPA registration No.: 39295-8



DIRECTIONS FOR USE: Federal Law to use this product in a manner inconsistent with its lebeling.

# STORAGE AND DISPOSAL

# Prohibitions:

Do not contaminate water, food or feed by storage or disposal. Open burning and dumping is prohibited. Do not re-use empty container.

# Storage:

Keep pesticide in original container. Do not put concentrate in food or drink container.

# Pesticide Disposal:

Pesticide, spray mixture, or rineste that cannot be used in accordance with labcl instructions must be disposited according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

## Container Disposal:

Rinse container liner with water and add rins ate to use solution or completely empty back, what is a print tapping sides and bottom to toosen clinging particles. Empty residue into application equipment. Dispose of polywoven bags in accordance with Endoral, State or Local authorities for approved procedures according to the Resource Conservation and Recovery Act.

#### CALCO COPPER SIN FATE ALGAECIDE GENERAL INSTRUCTIONS:

There are many factors to consider in controlling algae in impounded water, takes, ponds, reservoirs, and flooded rice fields. These include water temperature and hardness, type of vegetation to be controlled, and the water flow. A small amount of Copper Suffate can effectively control alose in water provided the algae growth is treated early in the development. If large amounts of algae are present, larger quantities of Copper Sulfate will be required. In moving water systems, control of algae 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 or until the vegetation has begun to die. Copper Sulfate works effectively in water temperatures above 60°F and in low hardness water. Mix Copper Sultate in a glass or plastic container. If a metal container is used, make certain it is either painted, copper lined, or enameled since Copper Sulfate causes a chemical reaction with a galvanized container and the copper platte out on the container. To minimize the possibility of fish kill that could be caused by the loss of oxygen in the water from the dead algae treat up to 1/3 or 1/2 of the water area at a time and wait and proceed outwards. Consult State lish and game agencies before applying. 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:

- ntions for the Amount of Water Impounded and for the Amount of Copper Sulfate to be Used. mine water volume as follows:
- dbtain surface areas by measuring of regular shaped, bonds or mapping of irregular ponds or by reference to previously recorded engineering data or maps.
- Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by reference to previously obtained data.
- Multiply surface area in feet by average depth and feet to obtain cubic feet of water volume.
- Multiply surface area in acres by average depth and feet to obtain total acre-feet of water volume.
- 8. Determine 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 325,000 gallons or 2,720,000 pounds. Multiply volume in cubic feet by 62 44 to obtain total pounds of water or multiply volume in acre feet by 2,720,000 to obtain pounds of water.
- C. Determine the Copper Sulfate Pentaltydrate needed to achieve the recommended concentration, multiply the weight of water by the recommended concentration of Copper Sulfate. Since recommended concentrations are normally given in parts per million (ppm) it will first be necessary to convert the value in parts per million to decimal equivalent. For example, 2 ppm is the same as 0.000002 when used in this calculation. Therefore, to calculate the amount of Copper Sulfate Pentahydrate to treat 1 acre-foot of water with 2 ppm Copper Sulphate the calculation would be as follows: 0.000002 x 2,720.000 = 5.44 lbs. Copper Sulfate Pentahydrate

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

#### For Algae Control in Impounded wawr, lakes, ponds, and reservoirs:

Determine the amount of CALCO Copper Sulfate to be added and dissolve the crystals in water and spray over the area to be treated. Apply the mixture as a uniform surface spray using a boat or a pressure spraying device. Where the situation permits, Copper Suffate may be applied under the water by boat by dragging burlap bags containing medium to large crystals of Copp. r Sulfate. Begin treatment along the shoreline and proceed outward and make certain even distribution is achieved by traveling in parallel lines about 20-100 feet apart.

### For control of Tadpole Shrimp in flooded rice fields:

Apply CALCO Copper Sulfate at a rate of 10-15 pound per acre by mixing with 500 parts of water and applying as a uniform surface spray using Ind pressurized spraying device. Use at first indication after the field has been flooded to a depth of 6-8 inches.

#### ation of water flow in disches, atreems 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 ditches or streams and use a continuous application method, selecting proper equipment, to add the Copper Sulfate crystals as follows:

### For Algae control in irrigation systems:

Use a continuous feeder application method by applying 0.1 to 0.2 pounds of CALCO Copper Sulfate per cubic foot per second per hour. Begin continuous addition when water is first turned into the system and continue throughout the irrigation season.

#### For leafy and sage pend weed control in impartion systems:

Use a continuous feeder application system by applying 0.25-0.50 pounds of CALCO Copper Sulfate per cubic foot per second per hour. It is best to apply the Copper Sulfate crystals when the water is first turned into the system or disch to be treated and to continue throughout the irrigation season.

# To Control Algae in irrigation convayance systems using the slug application method:

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

## SEWER TREATMENT-ROUT DESTROYER:

CALCO Copper Suffate is an effective root destroyer. For a partial stoppage, add a minimum of two pounds of CALCO Copper Suffate to the sewer or drain and flush toward the blockage with five gallons of water. Repeat every six months to prevent growth of new roots. For a complete stoppage of sewer or drain, remove the blockage physically and repeat the preceeding procedure

# WOOD TREATMENT (Green, peeled posts and fungue decay, roi):

Prepare a solution of 18.0 pounds of Sodium Chromate in each 26 gallons of water to be used and a separate second solution of 18.0 pounds of Copper Sulfate in each 24 gallons of water to be used, soak the peeled green posts, buttlend 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 one additional day. Remove and rinse post with clear water

### SORDEAUX MIXTURE GENERAL INSTRUCTIONS:

A Bordeaux formulation consists of three numbers such as 10-10-100. The first figure (19) represents the number of pounds of Copper Surlage Pentahudralis: the second figure (10) represents the pounds of hydreted figure (stig.) the third is use (100) represents the riumher of patients of water Justic Use sea full dissertings spray to rill not Prepare a Bordeaux mixture file is to be tank of water, 1/2 full. With arring full or running, mix CALCO Copper Sulfate through a copper, bronza, plastic, or stainless steel screen. Add water so the tank is 3/4 full and mix in the hydrated lime through the access. Finish filling the balance of water.

Shot Hele Fungue on Almenes, Peachee, Apricons, Rectum Prepare a 10-10-100 Bordeaux and apply as a dorment spray in late fall or early spring.

Brown Rot Blossom blight on Almonds, Apricots, Cherries, Peaches, Nectorines, Plums, Prunes:

Prepare a 10-10-100 Bordeaux and apply when the buds begin to swell.

Lest Spote on Sour Cherries:

Prepare a 10-10-100 Bordeaux and apply as a full coverage spray after petal fall or as recommended by the State extension service.

Phytophthore Brewn Ret on Lamens, Oranges, Grapetrult:
Prepare s 3-4/s-100 Bordesux where there is no history of Copper injury or a 3-2-6-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-gallone of water) Bordeeux. Spray 8 gallons on skirt of tree 3-4 feet high and 2-4 gallons on trunk and ground under tree. If P. hibernalis is present, use 10-15 gallons to completely cover each tree. Apply in November or Docember just beofre or after first rain, in severe brown rot season, apply second apulication in January or February.

Septoris Fruit and Leaf Spot, Central California and Brown Ret and Zinc and Copper Deficiencies on Lamons, Oranges, and Grapefruit: r/repare a 3-2-6-100 Bordeaux and use 10-25 gallons to completely cover each tree. Apply in October, November, or December before or just after

Weinut Blight on Weinuts:

Propers a 10-10-100 Bardeaux plus one half gallon summar oil emulsion. Apply in early problem 10-20% pistillate (not when calkin blooms are showing) before or after rein. Use only if Bordeaux mixture has been shown to be non-phyticloxic in your area.

NOTICE TO BUYERS:

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



CALABRIAN INTERNATIONAL CORPORATION 205 DAVIDSON AVE., SOMERGET, NEW JERGEY COURS

