

JAN 7 1994

Southern California Chemical Co. Inc.  
c/o Linda Watson  
Pesticide Regulatory Services  
3703 Sedgefield Drive  
Valdosta, GA 31602

Gentlemen:

Subject: Revised Labeling  
Copper Sulfate Liquid  
EPA Registration No. 11435-3  
Your Submission Dated December 15, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. In the Storage and Disposal Section add the heading:

Pesticide Disposal

Refer to PR Notice 83-3.

b. Since this product is in Toxicity Category I - DANGER, the Statement of Practical Treatment must appear on the front panel.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely yours,



by Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

# COPPER SULFATE LIQUID DANGER-PELIGRO KEEP OUT OF REACH OF CHILDREN

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).

APPLY THIS PRODUCT ONLY AS SPECIFIED ON THE LABEL

## ACTIVE INGREDIENT

Copper Expressed as Metallic* . . . . .	6.0%
INERT INGREDIENTS . . . . .	94.0%
<b>TOTAL</b>	<b>100.0%</b>

\* From Copper Sulfate Pentahydrate

Weight — 9.83 lb/gal

Contains 0.59 lb. metallic copper/gal. or 70.7 g/liter  
EPA Reg. No. 11435-3 EPA Est. No. 35896-IL-1

## DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

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 on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry 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: Coveralls, waterproof gloves, shoes plus socks and protective eyewear.

1. **STATIC or MINIMAL FLOW SITUATIONS** (Reservoirs, Lakes and Ponds): Accurately 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, 326,000 gallons, or 2,720,000 pounds of water.

For control of filamentous and planktonic algae, apply one gallon of LIQUID COPPER SULFATE per acre foot of water. This application rate will result in a copper concentration of 0.22 ppm in the treated water. Dilute the recommended amount with at least 20 parts of water and apply the mixture as a uniform surface spray. Break up floating algae mats prior to application. The most effective algae control is obtained under calm, sunny conditions.

For control of bottom-attached algae (Chara and Nitella), use 2 gallons per acre foot of water to be treated. Dilute the recommended amount of LIQUID COPPER SULFATE in 4 gallons of water and apply as a uniform surface spray.

2. **FLOWING WATER SITUATIONS** (Irrigation/Potable Water Conveyance Systems): accurately determine the flow rate of water in Cubic Feet per Second (C.F.S.) or Gallons per Minute (Gal./Min.). One C.F.S. equals 450 Gal./Min. Apply 0.8 fluid ounces of LIQUID COPPER SULFATE per minute per C.F.S. by a gravity feed or similar drip system and maintain this drip rate for 45 minutes. This drip rate will maintain a copper concentration of 1 ppm in the flowing water for 45 minutes.

Make the application at a point of turbulence in the canal for good dispersion of the chemical. The distance of control depends upon the density of algae growth. For this reason, the application should be made as soon as the algae starts interfering noticeably with the flow of water.

This material undiluted is corrosive to metal and should not be allowed to remain in contact with metal drip apparatus or spray equipment. Rinse spray equipment thoroughly after use.

### 3. RICE FIELDS

Algae in Rice Fields: Apply 4 1/2-6 1/2 gallons Copper Sulfate Liquid per acre to the water surface as a surface spray. Application should be made when the algae has formed on the soil surface but prior to rising to the water surface. Apply higher rate (6 1/2 gallons) in water of 6 inches or greater.

Tadpole Shrimp in Rice Fields: Apply 2 1/4-4 1/2 gallons of Copper Sulfate Liquid per acre to the flooded field at any time the pest appears between planting time and until the seedlings are rooted and have emerged through the water surface. The lower rate should be used when the water depth and flow rate are minimal and higher rate should be used when the water depth and flow are at a maximum.

### 4. WOOD TREATMENT

Green Peaked Posts: To prevent fungus decay and/or rot, prepare a solution of 18.0 pounds of sodium chromate in each 26 gallons of water to be used and a separate second solution of 7 1/2 gallons of Copper Sulfate Liquid in each 24 gallons of water to be used. Soak the peaked green posts, butt-end down first, in the copper sulfate solution for 3 days; then butt-end down in the sodium chromate solution for 2 days, and finally turn the posts upside down in the sodium chromate solution for 1 additional day. Remove and rinse the posts with clear water.

This product is suitable for use in the manufacture of wood preservative compounds including but not limited to CCA, ACA and ACZA compounds.

## NOTE

Areas treated with LIQUID COPPER SULFATE may be used for swimming or fishing immediately after treatment. Water from treated lakes or ponds may be used to irrigate turf, lawns, putting greens and ornamental plants.

Recommendations for use of this product are based upon tests believed to be reliable. Since aquatic field conditions vary widely, the user must determine the suitability of this product for his particular application.

Necessary approval and/or permits should be obtained in states where required.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

## STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

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 mucousal damage may contraindicate use of gastric lavage.)

## PRECAUTIONARY STATEMENTS

### DANGER-PELIGRO

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 spray mist.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

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

## USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

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

## 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 terrestrial sites 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 or pond at one time in order to avoid depletion of oxygen levels 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 toxicity generally decreases when the hardness of water increases. Do not contaminate water when disposing of equipment washwaters. 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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or residue 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 guidance. Store in a cool, dry place.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY STATEMENT

SOUTHERN CALIFORNIA CHEMICAL CO., INC. warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

Santa Fe Springs, CA 90670

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN 11 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act, the pesticide registered under EPA Reg. No. 11435-3

11435-3

BEST AVAILABLE COPY

# COPPER SULFATE PENTAHYDRATE

FOR MANUFACTURING PURPOSES AND  
NON-PESTICIDAL INDUSTRIAL USE

**KEEP OUT OF REACH OF CHILDREN  
DANGER-PELIGRO**

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

## ACTIVE INGREDIENTS

Copper Sulfate Pentahydrate . . . . . 99.5%  
(Copper as metallic . . . . . 25.2%)

INERT INGREDIENTS . . . . . 0.5%

TOTAL . . . . . 100.0%

EPA REG. NO: 35896-20

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER-PELIGRO

Corrosive—Causes irreversible eye damage. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes or inhale dust. Wear goggles or face shield and dust mask while handling, mixing or loading. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

(PRECAUCION AL USUARIO: Si usted no 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 white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. (NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.)

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

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

IF IN EYES: Flush with copious volumes of water. Get medical attention immediately.

### ENVIRONMENTAL HAZARDS

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.

## STORAGE AND DISPOSAL

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 guidance. Store in a cool, dry place.

CONTAINER DISPOSAL: Completely empty bag into application equipment and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

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

It is the responsibility of formulators using this product to register all pesticidal formulations made from it with the EPA. Before using this product, be sure to consult the technical literature which is available from the manufacturer.

FORMULATION OF PESTICIDES: This product is suitable for use in the manufacture of algacides, fungicides, mildewcides, herbicides, wood preservatives, including CCA, ACA, and ACZA compounds and tanning and preserving agents for leather and hides.

### INDUSTRIAL NON-PESTICIDE APPLICATIONS:

MANUFACTURING—For use as a sweetener in petroleum refinery sulfur-removal processes, a raw material supplying copper for chemical reagents and starting material for other copper salts, a froth flotation activator for zinc, lead and uranium ores, battery electrolyte, metal-marking inks and anti-rust compositions. Also use as a color stabilizer and mordant in textile dyeing and azo dye manufacturer; an ingredient in color paint pigment formulations, water resistant wood adhesives, any pyrotechnic compositions such as fire log coloring agent.

METAL TREATING—For use in wire plating, bright copper electroplating, tinting and coloring baths and in the manufacture of electronics.

COMMERCIAL PHOTOGRAPHY—For use in mordant baths to intensify negatives and as a toner for photography and photoengraving.

ANIMAL FEED AND FERTILIZER ADDITIVES—For use by qualified formulators as a trace component for correcting copper deficient animal feeds and as a micronutrient additive for fertilizers. Also used as a trace component for correcting copper deficient soils.

## WARRANTY STATEMENT

CP CHEMICALS, INC. warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonable to seller and buyer assumes all risk of any such use.

**BEST AVAILABLE COPY**