

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 11435-3	DATE OF ISSUANCE JAN 25 1990
	TERM OF ISSUANCE Conditional	
NAME OF PESTICIDE PRODUCT Copper Sulfate Liquid		

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Southern California Chemicals
~~Astrol Chemical PRODUCTS~~
~~c/o Pesticide Development Services~~
~~HWY 123 Bank Lakes~~
~~Lakeland, Georgia 31635~~
 Santa Fe Springs, CA

Wrong Co. Name &
 Address Used.
 J.J.M.
 6/26/90

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

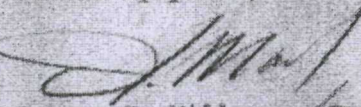
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.
 Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:


1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase, "EPA Registration No. 11435-3" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

Sincerely yours,

 Joanne I. Miller
 Product Manager (23)
 Fungicide-Herbicide Branch
 Registration Division (H7505C)

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL 	DATE 1/25/90
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FRONT LABEL

SOUTHERN CALIFORNIA CHEMICAL CO., INC.
Santa Fe Springs, California 90670

ACCEPTED
with COMMENTS
in EPA Letter Dated

COPPER SULFATE
LIQUID

Jan. 25, 1990

DANGER-PELIGRO

11435-3

KEEP OUT THE REACH OF CHILDREN!

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS
AND STATEMENT OF PRACTICAL TREATMENT

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

APPLY THIS PRODUCT ONLY AS SPECIFIED ON THE LABEL

ACTIVE INGREDIENT

Copper Expressed as Metallic*.....	6.0%
INERT INGREDIENTS.....	94.0%
TOTAL.....	100.0%

* From Copper Sulfate Pentahydrate

✓ Weight - 9.83 lb./gal.
✓ Contains 0.59 lb. metallic copper/gal.
or
70.7 g/liter

Net Contents: 30 Gallons

EPA Reg. No. 11435-

EPA Est. No. 11435-CA-1

DIRECTIONS FOR USE

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

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 reate 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 Peeled 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 peeled 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.

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, fairways, 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.

BACK LABEL

LIQUID COPPER SULFATE

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

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. Protective clothing, including goggles, should be worn. 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 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 mucosal damage may contraindicate use of gastric lavage.*)

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. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. 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 rinsate is a violation of Federal Law. If these wastes cannot be disposed of by sue 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.