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			Application				72.5			
1. Company/Proc	·				Product Manag		3. Pro	oposed Classification		
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	o <del>ut Name)</del> Copper Gulfata Crystalsd				PM# (PM 22)					
		icent <i>(Include ZIP Cod</i>			W. In accordance	e with	FIFRA Section 3(c)(3)			
Chem Ons	TIPES			( *	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling					
		92. 80350 33 1088-6519	•	to:						
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l acknowl	I certify it it the statements I have made on this form and all attachments thereto are true, accurate and complete, i acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or (Scamped)									
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8017 Pinemont #100 V Houston, Texas 77040-6519

Tel: (713) 896-9966 Fax: (713) 896-7540 www.chemone.com

February 3, 2003

Document Processing Desk – Attn: Cynthia Giles-Parker U. S. Environmental Protection Agency Office of Pesticide Programs (7504C) Ariel Rios Builidng 1200 Pennsylvania Avenue, N. W. Washington, D C 20460-0001

Subject: Chem One Ltd. Current (1/16/03) bag label- notification OOP ID # 286405- Copper Sulfate Crystals, EPA REG No. 56576-1

Dear Ms. Cynthia Giles-Parker:

Enclosed please find the bag label with the wording added for notification OPP ID # 286405, submitted January 16, 2003 regarding fertilizer statements.

Regards,

Sue Palmer-Koleman

Chem Info Analyst

(718-896-9966, ext 112)

cc: S. R. Siemer, Siemer and Assoc.



	FIRST AID
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.  Call a poison control center or doctor for treatment advice.
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth, if possible.  Call a poison control center or doctor for further treatment advice.
If in eyes;	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue to rinse eye.  Call a poison control center or doctor for treatment advice.
If swallowed	Call poison control center or doctor immediately for treatment advice, Have person sip a glass of water if able to swallow.  Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes:	Have the product container or label with you when calling a polson control center or doctor, or going for treatment.  In the event of a medical emergency, you may also contact the National Pesticide Information Center at 1-800-858-7378.

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## DANGER - PELIGRO

CORROSIVE: Causes eye damage and imitation to the skin and mucous membranes. Harmful or fatal if sy Taker If swallowed. Do not get in eyes, on skin or on clothclothing. Do not breathe dust or spray mist. May cause skin sensitization reactions to certain individuals

Applicators and other handlers must wear: Long-sleeved shift and long pants, chemical-resistant glove if you want more options, follow the instructions for category A on an EPA chemical resistance category not reuse them. Follow manufacturer's instructions for clearing/maintaining PPE. If no section instruction Ensourable Profite Educified and an acceptance of the production of the product are fished below selection characteristics and other absorbert materials that have been disnoched or heavily contaminated with this product are fished below selection chart. Discard dothing and other absorbert materials that have been disnoched or heavily contaminated with this product a concentrate. Do a for weshables, use detergent and hot water. Keep and wash PPE separately from other faundry.

### **USER SAFETY RECOMMENDATIONS:**

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the tollat. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wesh thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

This product is toute to fish. Direct application of Copper Sulfate to water mey cause a significant reduction in populations of appute inventebrate, plants and fish. Do not treat more than one-half of jake or pond at one time in order to avoid depletion of oxygen from decaying vegetation. Allow 1 to 2 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 local State Fish and Game Agency before applying this product to public waters. Permits may be required before applying this product to public waters. before treating such waters.

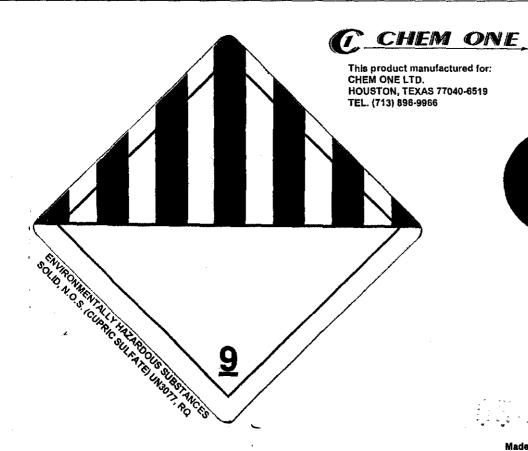
### STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, lood or feed by storage or disposed. Open burning and dumping brothibled. Do not re-use empty container
STOMACE: Keep presticted in original container. Do not put concentrate or dilutions of concentrate in food or drink containers.
PESTICIDE DISPOSAL: Pesticide wastes are acutely heareful. Improper disposed of excess pesticide, pray mixture, or rinksate 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 Weste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty beg in a samilary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### STORAGE AND DISPOSAL

STORAGE: Store in original container and place in a locked storage area.

DISPOSAL: If empty: Do not reuse this container. Do not rive unless required for recycling. Place in trash. If partly filled: Call your local solid waste agency (or 1-800-CLEANUP or equivalent organization) for disposal instructions. Utiless otherwise instructed, place in the tresh. Never pour unused product down the drain or on the ground.





Made in Mexico

FRA REQ 10: 56576-1

EPAEST, NO. MEX-001

CLUNENT INDUITABLE

(1)

DIRECTIONS FOR USE

It is a violation of Fedural Low to use this product in a manner inconsistent with its labeling, on out 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 requirements specific to your State or Titles, consult the agency responsible for posticide requirements or other persons, either directly or through drift. Only protected handlers may be in the area during application. For requirements specific to your State or Titles, consult the agency responsible for posticide requirements or other persons, either directly or through drift. Only protection is product only in accordance with its tobuling and with the Worker Protection Standard. Or of the state of the product of the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural posticides. It contains requirements for training to the statements or this label about pringral protective equipment (PPE and restricted-early interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not exist or allow worker early his breated areas during the restricted area for the protection standard and that involves contact with enything that has been treated, such as plants, solic or Judof, is: Cover.its, characel-resistant gloves made of any waterprometerial (such as polyvinyl chioride, nitrie rubber, or butyl rubber), shoes plus socks, and protective eyewear. ultural workers on farms, forests, museries, and greenhouses, and handlers of ining to the statements on this label about passival protective equipment (PPE).

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Applicators and other handlers who handle this posticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) sust wear: long-sleeved shirt, chemical-resistant gloves made of mity waterproof material (such as polyvingl chloride, nitrile rubber, or butyl rubber), shoes plus social, and protective syewers.

GENERAL INSTRUCTIONS FOR USE

GENERAL INSTRUCTIONS FOR USE
hardness, temperature of the water, the type and amount of vegetation to be controlled, and the amount of water flow are to be considered in using Copper Sulfate to control signe. Begin treatment soon after plant growth has started. If treatment is durab a large amount of signe is present, larger quantities of Copper Sulfate will be required to water the present of the water, the type and amount of vegetation to be considered in using Copper Sulfate when water temperatures are low or when the water conditions are find water. Larger quantities of sulfate will be required to water and control signe in water which is flowing than in a body of steppart water. If possible, curtait the flow of water before treatment and hold dommark for approximately three days after treatment or until the aligne hove to let. When preparing a Copper Sulfate solution in water, the mixing container should be made of plastic or spanting a copper lined neadle confainer. It is usually best to treat signe on a surnry day when the heavy made of source alignes are most likely to be floating on the surface where it can be sprayed directly. If there is some doubt about the concentration to apply, it is generally best to start with a lower concentration and to increase this concentration until the aligne

Remembous eiges are most likely to be floating on the surface whells at Can be sprayed offerory. If there is some doubt and concentration to apply, it is guitably one to float will a find the first will a find the floating of the surface whell a surface whell a floating of the surface whell and in 0 is 14 days in between treatments. Begin treatments along the shore and proceed outward in bands to allow fish to move into universed water. NOTE: If treated water is to be used as a source of potable water, the metallic copper residual must not exceed 1 ppin (4 ppin copper sulfate pentaltystrate).

CALCILATIONS OF ACTIVE IMPROVED AND FOR THE AMOUNT OF COPPER SULFATE TO BE USED: Calculate water volume as follows: (1) Obtain surface area by measuring of regular pattern and taking the mean of these readings or by reference to previously recorded engineering date or maps. (2) Calculate average depth by sounding in a regular pattern and taking the mean of these readings or by reference to previously obtained data. (3) Multiply surface area in each by average depth in first to obtain to obtain cubic test of well evidence where volume.

CALCULATION 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 lest by 2.20,000 to obtain pounds of water.

CALCULATION OF ACTIVE INGREDIENT TO BE ADDED: To calculate the amount of Copper Sulfate Pentaltydrate needed to actively the regular of water by the verigit of the water by the verigit of the water by an experimental concentration are recommended concentrations are roomating years in participants pure miletion page.

Select No. 10 of the page of

SEWER TREATMENT - ROOT DESTROYER?

ROOT CONTROL GENERAL INFORMATION: Plant roots can penetrate through small cracks and poorly sealed joints of sewer times. If not controlled, these small roots will continue to grow larger in number causing breakage, reduced flow, and eventually flow stoppage. Copper sulfate has been known to be an effective means to control roots in realizabilities.

COMMERCIAL, INFORMATION: SEWERS:

ROOT CONTROL IN SEWERS:

ROOT CONTROL IN SEWERS:

ROOT CONTROL IN SEWERS:

As a preventive measure, apply into each junction or terminal membre 2 pounds of Copper Sulfate Crystals every 8 to 12 months. At time of reduced flow (some water flow is essential), add copper sulfate. If flow has not completely stopped, but has a reduced flow due to root meases, add Copper Sulfate Crystals in the next membre above the reduced flow area. For complete stoppage, penetrate the meas with a rod to enable some flow before treatment.

ROOT CONTROL IN STORM DRAINS: Apply when water flow is light. If no water flow, as in dry weether, use a root to produce a flow. Apply 2 pounds copper Sulfate Crystals per dealin per year. It may be necessary to repeat treatments 3 to 4 times, at week intervals, it drains become nearly plugged.

SEWER PURPS AND FORCE MAINS: At the storage well inlet, piace a cloth beg containing 2 pounds of Copper Sulfate Crystals. Repeat as necessary.

RESIDENTIAL OR HOUSEHOLD SEWER SYSTEMS: When a reduced water low is first noticed, and root growth is through to be into the country of the control of the produced proper sulfate Crystals. It is important not to wait until a stoppage occurs because nome water flow is recessary to move the Copper Sulfate Crystals to the serie of not growth. Usually, within 3 to 4 weeks, after roots have accumulated sufficient copper sulfate and begin to decay and water flow with successary to the produced copper Sulfate Crystals to the decay of water flow should increase. As the roots regrow, follow up treatment with copper sulfate with country and produced to produce

Sen Francisco, Sam Maleo, Sam's Claris, Solamo, and Soverne for root control in severs.

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

FOR ALGAE CONTROL - Begin continuous addition application of granular crystable se follows:

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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 lbs. per cubic foot per second of water per treatment. Repeat in two-week intervals as required. Depending on water hardness, afkalinity 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 CaCO3.
TO CONTROL ALGAE IN RICCE [Domestic and Wild] FIELDS: Application should be made when aligne have formed on the soil surface in the flooded field. Applications are most effective when made prior to the atgae's leaving the soil surface and rising to the water surface. Apply 10-15 pounds Copper Sulfate Persanydrate to the water surface in water and make a surface spay. Apply higher rate in deeper water (8 inches or greater).
TO CONTROL TAPPOLE SHRIMPI IN RICE FIELDS: Application should be made to the Booded fields and the pest appears from planting lime until the sealings are water incoded and have emerged through the water. Apply 5-10 pounds Copper Sulfate Persanydrate or planting the water of the persangle of the surface persangle or sealings are water incoded and have emerged through the water. Apply 5-10 pounds Copper Sulfate Persanydrate or planting the water or planting through the water or planting through the water depth and flow are maximum.

STATE	SPECIES	BULLETIN No.	COUNTY	STATE	SPECIES	BULLETIN No.	COUNTY
CALIFORNIA	Solano grass	EPA/ES -85-13 S	iolano	ALABAMA	Slackwater darter	EPA/ES-65-05	Lauderdale Medison Limestone
TENNESSEE	Slackwater darter	EPA/ ES-85-04 H	ancock Lawrence Wayne	VIRGINIA	Freshwater mussels	EPA/ES-85-06	Grayson Lee Scott Smyth Washington
TENNESSEE	Freshwater mussels	EPA/ES-85-07 C	lalborne Hawkins Sullivan				
ENDANGERED SPECIES RESTRICTIONS: it is a violation of Federal Law to use any posticide in a manner that results in the death of an endangered species or adverse modification of their habitar. The use of this product may							

ENDANCERED SPECIES RESTRICT IDNS: It is a vocation of receisa Law to use any pesuation in a manner that results in this death of an endangered species of adverte modification of their health. The use of this product may prose a hazard to cartain Federally designated endangered pecies known to occur in specific to receive the product in the above counties you must obtain the EPA Butterin specific to your area. This Bulletin identifies areas within these counties where the use of this position is provided, unless specified otherwise. The EPA Butterin is available from sither your County Agricultural Extension Agent, the Endangered Species Specialist in your State Wildlife Agency Headquarters, of the appropriate Regional Office of the U.S. Fish and Wildlife Service. THIS BULLETIN MUST BE REVIEWED PRIOR TO PESTICIDE USE.

COPPER SULFATE. REDUIRED FOR TREATMENT OF DIFFERENT GENERA OF ALCAS: The genera of signs island below are commonly found in waters of the United States. Use the lower in

orange asymmy) and the myner concentration in hero waters (above or port alicavary). Always curiate state rish and Gama Agency before applying this product to municipal waters.								
ORGAN/SM	1/4 to 1/4 ppm = .87 - 1.3 lb/scre ft	1/2 to 1 ppm = 1.3 - 2.6 lb/acre ft	1 to 11/2 ppm = 2.6-3.9 lb/acre fi	1½ - 2 ppm = 3.9 - 6.32 lb/acre ft				
Cyanophyceae	Anabaena Gloeotrichia Rivutaria	Cylindrospermum	Nastoc	Calothrix				
(Blue-green)	Anacystis Gomphosphaeria	Oscillatoria	Phormidium	Symploca 1				
	Aphanizomenon Polycystis	Plectonema		1				
Chlorophycene	Closterium	Bolryecoccus Enteromorpha Zygnema	Chlorella Qocystls Tetraedron	Ankistrodearnus				
(Green)	Hydrodictyon	Cladophora Gloeocysiis	Crucigenia Palmella	Chara				
	Spirogyra	Costastrum Microspora	Desmidium Pithophora	Nitelia				
	tilatrix	Drapamaldia Tribonema	Golenkinia Staurastrum	Scenedesmus				
Diatomaceae	Asterionella	Gomphonema Tabellaria	Achnanthes					
(Diatoms)	Fragitaria	Nitzachie	Cymbelta	i I				
	Melosira	Stephanodiscus	Neidium					
	Neviculs	Synedra						
Prolozoa	Dinobryon Volvox	Ceratium Glenodinium	Chlamydomones Peridinium	Eudorina				
(Fisgellates)	Synura	Cryptomonas Matiomonas	Hawmatococcus	Pandorina				
	Uroglena	Euglena						

§-INFECTED FRESH WATER SNAIL5
ideas, reservoirs, and ponds, 5.32 -13.3 bis/acre-ft Copper Suffate Crystals (i.e., 2-5 pcm copper auflate), is usually suffile
diwater volume and application rate. Apply only along shoreline swimming areas and/or to infected snail bads on calm st
this lower dosage is not sufficient, up to 32 pcm copper suffat, i.e., 87 lbs/acre (\* 2 lbs/1000 at ft) bottom surface area to
yr, 10 to 14 days later. OD NOT make more than two applications as eason. Broadcast application surface area to
be water systems. This labeling must be in the possession of the user at the time of pesticide application. NOTE: in the 1Apply medium grade crystate by hand broadcast method of applications. This product in restricted use for
the surface area of the surface area of the surface area of the surface area. lermind wa led. If this i

# FOOT BATHS FOR CATTLE Foot baths of Copper Sulfate

instals can be used as an aid in the treatment of hoof not in cattle. Prior to treatment, a veterinarian should be consulted to confirm presence of hoof rot. Animals may be walked through a foot bath of 2% (add 2 lbs copper of the confirm presence of hoof rot. Animals may be walked through a foot bath of dean during treatment period. Do not allow so copper sulfate is highly took. Follow instructions under Storage and Disposal when solutions are discarded at and of treatment period.

Wisconsin State Copper Fertilizer Recommendations*	Pounds per Acre					
Crop "L.S. C = Loams, Sits, Clays	Sands Bdot*	Sands Band	L.S.C* Bact*	L, S, C <sup>4</sup> Band	Organic Bect	Organic Band
Lettuce, gnion, spirusch	10	2	12	3	13	4
Carrot, cauliflower, celery, alfalfa, clover, corn, pat, radish, sudan grass, wheat	4	1	8	2	12	3
Appropriate hardon beauty hard brospell migt pan poteto our souteen				_		2

Asparagus, barley, beans, beel, broccoll, mint, pea, potato, rye, soybean 0 0 0 0 0 2

\*Recommendations are for inorganic sources of copper. Copper cheletes can also be used at 1/6 of the rates recommended above. Do not apply copper unless a defice

Shington, Gregon, and California Fertilizer Use: Information received by the Washington State Dept. of Agriculture regarding the components in this product is available on the Exercise At DOGO DRC GON, information regarding the contents and levels of matels in this product is available at the Oregon Dept of Agriculture Internet sits: http://ode.gtate.or.us/fortilizer. NOTICE: CHEM ONE LTD. warrants that this product in its unopened package conforms to the chemical description on the label. THERE ARE NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF ITNESS FOR A PARTICULAR PURPOSE. This warranty does not extend to the hendling or use of this product contany to tabel instructions or under abnormal conditions or under conditions not reasonably forespeeable to salide and buyer assumed all risk of any such use.

CHEM ONE LTD.
8017 Pinemont Drive 8017 Pinemont Drive, Suite 100 HOUSTON, TEXAS 77040-6519 TEL: (713) 896-9966

ENVIRONMENTALLY HAZARDOUS SUBSTANCES SOLID, N.O.S. (CUPRIC SULFATE) UN3077, RQ

Current lapal, 03