PM22 1278-5



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

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APR 25 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

ALICE WALKER

AGENT FOR: PHELPS DODGE REFINING CORP.

47 COUNTRY CLUB DRIVE

SENATOBIA, MS. 38668

Subject:

Label Amendment Submission of 10/23/93 Response to PR Notice 93-7

EPA Reg. No. 1278-5

PHELPS DODGE TRIANGLE BRAND COPPER SULFATE PENTAHY

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.

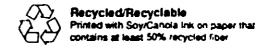
WHAT THIS ACCEPTANCE MEANS:

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.



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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. 20460-000

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

Alice Walker

Agent for: Phelps Dodge Refining Corporation

Comments for: EPA REG. NO. 1278-5

Phelps Dodge Triangle Brand Copper Sulfate Pentary

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Add the following User Safety Recommendation to the label: "Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

The statement "Notify workers of the application by warning them orally and by posting warning signs at the entrance to treated areas." is not required for your product. You may remove it.

Delete the crossed out statements on your proposed label. They are redundant statements or phrases.

PHELPS DODGE REFINING CORPORATION

TRIANGLE BRAND COPPER SULFATE INSTANT POWDER

Not for medicinal use

ACTIVE INGREDIENT:	
Copper sulfate pentahydrate*	99.0%
INERT INGREDIENTS:	
TOTAL	

^{*}Metallic copper equivalent 25.2%

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

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

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

Information for Right-to-Know States:

Copper sulfate pentahydrate: sulfuric acid, copper (2+) salt (1:1)/ CAS Reg. No. 7758-98-7; Water/CAS Reg. No. 7732-18-5

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. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

IF ON SKIN: Remove contaminated clothes and shoes; immediately wash skin with soap and plenty of water and get medical attention.

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

EPA Reg. No. 1278-5

Manufactured by Phelps Dodge Refining Corporation El Paso, Texas 79998 ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 25 1994

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No. EPA Est No. 1278-TX-1

Net Weight 50 Lbs/22.68 Kg.

PRECAUTIONARY STATEMENTS DANGER HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes severe eye and skin irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing mist or dust and contact with skin, eyes, or clothing. Causes substantial but temporary eye injury. May cause skin sensitization reactions in certain individuals. Protective clothing, including goggles, should be worn. Wash hands, arms, and face thoroughly with soap and warm water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes plus socks, protective eyewear, and dust/mist filtering respirator (MSHA/NIOSH approval number TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with 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 clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent 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 to avoid depletion of oxygen levels due to decaying vegetation. Allow one to two 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 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

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Store unused product in original container only in a cool, dry area out of reach of children and animals. If container or bag is damaged, place the container or bag in a plastic bag. Shovel any spills into plastic bags and seal with tape.

DISPOSAL

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of 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. Open dumping is prohibited.

CONTAINER DISPOSAL: Do not reuse empty container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Place the pesticide into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. 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. 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, forest, 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.

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.

When used for household sewer treatment, keep children and pets away from treated area until material has been flushed down drain.

REENTRY STATEMENT

Do not enter treated area without protective clothing until sprays have dried or dusts have settled. 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. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture-for further information. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: DANGER: Area treated with Phelps Dodge Refining Corporation Triangle Brand Copper Sulfate Pentahydrate on (date of application). Do not enter without appropriate protective clothing until sprays have dried or dusts have settled. In case of accidental exposure, see the Statement of Practical Treatment on this label:

SEWER TREATMENT FOR ROOT AND FUNGUS CONTROL

Phelps Dodge Refining Corporation Triangle Brand Copper Sulfate Instant Powder is effective in keeping sewer lines free of roots.

FOR PARTIAL STOPPAGE: Add 1/2 pound of Phelps Dodge Refining Triangle Brand Copper Sulfate Instant Powder to sewer or drain and flush toward blockage with 5 gallons of water. Repeat at 6 month intervals to prevent growth of new roots.

FOR COMPLETE STOPPAGE: Physically remove the root blockage and repeat as above.

MIXING BORDEAUX MIXTURES

Phelps Dodge Refining Corporation Triangle Brand Copper Sulfate Instant Powder may be used as an ingredient in Bordeaux Mixture sprays as a fungicide to control some plant diseases. If a Bordeaux Mix is stated as 10-10-100, the first figure indicates the number of pounds of Copper Sulfate Instant Powder; the second is the number of pounds of Hydrated Spray Lime, and the third figure indicates the number of gallons of water to be used per acre.

To prepare a Bordeaux Mixture, fill the tank 1/4 full with water while the agitator is running. Wash the Phelps Dodge Refining Corporation Triangle Brand Copper Sulfate Instant Powder into the tank through a copper, bronze, stainless steel or plastic screen. Fill the tank 3/4 full

with more water and wash the hydrated spray lime through the screen and then fill the tank. Agitate for several minutes to insure thorough mixing.

CHEMIGATION

Refer to supplemental labeling for use directions for chemigation. Do not apply this product through any irrigation system unless supplemental labeling on chemigation is followed. Supplemental labeling is entitled:

Supplemental Labeling for Copper Sulfate Pentahydrate EPA Reg. No. 1278-5 EPA Est. No. 1278-TX-1 Chemigation

USING BORDEAUX MIXTURES WITH VARIOUS CROPS

ALMONDS, APRICOTS, PEACHES, NECTARINES: For Shot Hole Fungus, prepare a 10-10-100 Bordeaux Mixture and apply as a domaint spray in late fall or early spring.

ALMONDS, APRICOTS, CHERRIES, PEACHES, NECTARINES, PLUMS, PRUNES: For Brown Rot Blossom Blight, prepare a 10-10-100 Bordeaux Mixture and apply when buds begin to swell.

SOUR CHERRIES: For Leaf Spot, prepare a 10-10-100 Bordeaux Mixture and apply as a full coverage spray after petal fall or as recommended by State Extension Service.

LEMONS, ORANGES, GRAPEFRUIT: For Phytophthora Brown Rot, prepare a 3-4-5-100 Bordeaux Mixture where there is no history of copper injury, or a 3-2-6-100 (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) Bordeaux Mixture. Spray 6 gallons on skirt of tree 3 to 4 feet high, and 2 to 4 gallons on trunk and ground under the tree. If Phytophthora hibernalis is present, use 10 to 25 gallons to completely cover each tree. Apply in November or December just before or after first rain. In severe Brown Rot season, apply second application in January or February.

LEMONS, ORANGES, GRAPEFRUIT: For Septoria Fruit and Leaf Spot (central California), Brown Rot, zinc and copper deficiencies, prepare a 3-2-6-100 Bordeaux Mixture (Zinc Sulfate-Copper Sulfate-Hydrated Lime-Gallons of Water) and use 10 to 15 gallons to cover completely each tree. Apply in October, November or December just before or after first rain.

WALNUTS: For Walnut Blight, apply 15 pounds Copper Sulfate with 10 pounds of Hydrated Lime in 100 gallons of water plus 1/2 gallon summer oil emulsion. Apply in early pre-bloom and at 10% to 20% pistillate (not when catkin blooms are showing) just before or after rain. Use only if Bordeaux Mixture has been proven to be non-phytotoxic in your area.

OLIVES: For Peacock Spot and Olive Knot, prepare a 10-10-100 Bordeaux Mixture and apply in autumn before heavy winter rains to prevent Peacock Spot. In areas of less than 10 inches rainfall, use a 5-10-100 Bordeaux Mixture. To help protect against Olive Knot apply a 10-10-100 Bordeaux Mixture before heavy rains and again in the spring. Injury may occur in areas of less than 10 inches of rainfall.

LILIES: For Botrytis Blight, prepare a 10-10-100 Bordeaux Mixture and apply at beginning of emergence. Repeat at 7 to 10 day intervals. Apply more often during frequent rainfalls or when severe disease conditions occur.

NOTICE TO BUYER

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

DOT Hazard Class RQ, Environmentally Hazardous Substances, Solid, n.o.s., (Cupric Sulfate), UN 3077 SUPPLEMENTAL LABELING COPPER SULFATE PENTAHYDRATE EPA REGISTRATION NO. 1278-5 EPA ESTABLISMENT NO. 1278-1X-1

Special Use Direction for Chemigation Applications.

Apply this product only through synkikler systems including center pivot, lateral move, end tow, side (wheel) toll, solid set, or hand move. Do not apply this product through any other type of krigation system. Do not use this product in sprinkler systems connected directly to public water systems. Grop Injury, lack of effectiveness, or Hegal postlokle residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an inigation system (bicluding green house systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arlse.

the system must contain a tunctional check valve, vacuum relief valve, and low pressure drain appropriately located on the infgation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solehold-operated valve located on the Intake side of the kijection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the hilgation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The hrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a motorkig pump, such as poskive displacement injections pump (e.g., displusgm pump) defectively designed and constructed of materials that are compatible with pesticides and expable of being fitted with a system interlock. Donest apply when wind speed favors difft beyond the area lutended for treatment.

To mix this product for application, add it to the supply tank containing sufficient water to maintain a pumpable fluid for your equipment with continuous agitation. Combined agitation is required in the pes-

ticide supply tank when this product is present until it is completely empty.

If other known compatible pesticides or products are tank-mixed, add this product and other wettable powders first to the water, followed by flowables, liquids, and last emulsiliable products. In lateral move, end low, aide (wheel) roll, solid set, or hand move inject products in the last 15 to 30 mintites of each set allowing sufficient thre for all of the required pesticide to be applied by all aprinkler beads. In continuous moving system, inject this product-water inlature continuously applying the labeled rate per acre for that crop. In continuous moving systems, best disease control results when water applications are low, but do not exceed one kich per acre.

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EL PASO, TEXAS 79998