



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

JAN 1 4 1994

Alice Walker, PH D
CONTINENTAL SULFUR COMPANY
7500 SAN FELIPE, SUITE 410
HOUSTON, TX 77063

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 07/30/93 In Response to PR Notice 93-7

EPA Reg. No. 55429-1

CSC WETTABLE OR DUSTING SULFUR

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) to of the final printed labeling:

- PRESENTING OF DESCRIPTION OF SELLING OF SELLING OF DESCRIPTION OF SELLING OF DESCRIPTION OF SELLING OF SELLING
- WITHIN one year from date of this acceptance.

Page 2

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. 20460-0001

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,

Im Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division

Alice Walker, Ph D CONTINENTAL SULFUR COMPANY 7500 SAN FELIPE, SUITE 410 HOUSTON TX 77063

Subject: Label Amendment Submission of 07/30/93 to Comply with WPS Labeling Requirements EPA Reg Nr. 55429-1 CSC WETTABLE OR DUSTING SULFUR

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

Remove the statement ". o 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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

CSC WETTABLE OR DUSTING SULF

FOR SPRAYING OR DUSTING FUNGICIDE - MITICIDE

For Use on Fruits and Berries, Citrus, Nuts, and Vegetables as Listed For Hops, Sugar Beets, Cotton. Seed Alfalfa, Peanuts, Potatoes, Avocados, Lawns, Roses, Flowers and Ornamental Plants

May be dusted or sprayed directly on crops as listed

FOR USE AS A SOIL AMENDMENT As a Soil "pH" Adjustment

ACTIVE INGREDIENT:

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with soap and water. Get medical attention if irritation p

IF IN EYES: Flush eyes with flowing water for at least 15 minutes. Get medicattention if irritation persists.

See side/back panel for additional "Precautionary Statements."

EPA Reg. No. 55429-1

EPA Est. No. 55429

Net V

50 Lbs

Manufactured by: CONTINENTAL SULFUR COMPANY 7500 San Felipe, Suite 605 Houston, Texas 77063

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 1 1994
Under the Federal Insecticide
Fundicide, and Redenticide Ac
as estended, for the postetic
registered under EPA Reg. No

PRECAUTIONARY STATEMENTS CAUTION HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be harmful if swallowed, inhaled, or absorbed through the skin. Avoid inhalation of vapors, spray or dust. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and 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, and shoes plus socks.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to any body of water. Do not apply when weather conditions favor drift from areas treated. Do not apply where run-off is likely to occur.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL. USE IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

RE-ENTRY AND WORKER SAFETY STATEMENT

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. Do not enter treated areas for 24 hours unless appropriate protective clothing is worn. Because certain states may require more restrictive re entry intervals for various crops treated with this product, consult your State Expartment of Agriculture for further information.

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Written or oral warnings must be given to workers who are expected to be in tareas or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered with specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Or warnings must be given if there is reason to believe that written warnings can understood by workers. Written warnings must include the following inform CAUTION: Area treated with CSC WETTABLE OR DUSTING SULFUR on (contented areas for 24 hours unless appropriate protective clothing is we case of accidental exposure refer to STATEMENTS OF PRACTICAL TREATMIT other Precautionary Statements on the label.

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 protection of agricultural workers on farms, forests, nurseries, and greenholand handlers of agricultural pesticides. It contains requirements for training decontamination, notification, and emergency assistance. It also contains sinstructions 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 Worker Protection Standard.

Do not apply this product in a way that will contact workers or other personeither directly or through drift. Only protected handlers may be in the area application.

Do not enter or allow worker entry into treated areas during the restricted e interval (REI) of 24 hours. Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, workers to enter the treated area if there will be no contact with anything the been treated.

PPE required for early entry to treated areas that is permitted under the Wo Protection Standard and that involves contact with anything that has been such as plants, soil, or water is coveralls, waterproof gloves, and shoes plus

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT wiscope of the Worker Protection Standard for agricultural pesticides (40 CFR 170). The WPS applies when this product is used to produce agricultural plarms, forests, nurseries, or greenhouses. Keep unprotected persons out of areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store product in its original labeled container in a cool, dry, locked place out of reach of children.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms on this label.

TO USE AS A SPRAY

HOW TO MIX - Select a suitable hand sprayer or power unit which uses a ground rig or aerial applicator. Measure the recommended amount for the specific spray problem separately into water and stir to make a thin "slurry" paste. Fill the spray tank 1/2 full and then add the sulfur "slurry" to the tank before other materials are added. When using a suitable "approved" wetting agent, add it to the tank last to avoid possible foaming. Keep spray mixture agitated while spraying. Mix only the amount of spray mended for the job.

TO USE AS A DUST

Choose a suitable Hand or Power Duster as needed, or select a Certified Ground or Aerial Applicator who uses specialized dusting equipment designed to deposit the dust on all plant surfaces. For best results apply when wind velocity is below 5 mph. Observe precautions concerning use on sulfur sensitive plants and temperatures at the time of application.

WHEN TO USE - Apply to crops as needed in season when mites or diseases first appear and when insect "buildup" and plant disease damage is imminent. Repeat as directed for continued control. Contact your State Agricultural Extension Service for crop spray or dusting schedules which give the proper timing for applications in your locality.

HOW MUCH SPRAY OR DUST TO USE

WHEN TO APPLY THE LOWER RECOMMENDED RATE

- 1. During periods of minimal to moderate disease or insect infestation.
- 2. For regular season Cover Sprays.
- 3. When temperatures are up in the 80's and low 90's.

WHEN TO APPLY THE HIGHER RECOMMENDED RATE

1. When mites or the diseases are damaging the crop and when weather concare favorable for their continued damage.

2. When temperatures are below and will not exceed 90° F within the following

after the application.

AS A SPRAY - The lower rates would be 2 or 3 lbs. of the 2 to 6 lbs/100 gallons recommendation. The higher rates would be 4 or 6 lbs/100 gallons.

AS A DUST - The lower rate would be 50 lbs. of the 50 to 80 lb. rate per acre. I higher rate would be 80 lbs.

AS A SPRAY OR DUST FOR FRUIT

APPLES AND PFARS: For POWDERY MILDEW, SCAB, BLISTER MITES, SI MITES & SPIDER MITES. AS A SPRAY use 4 to 6 lbs. per 100 gallons water for applications. Use 10 to 30 lbs. in 15 to 20 gallons water per acre for aerial applications. Apply Pre-Bloom and Petal Fall. Apply with cover sprays as needed through season. AS A DUST for SCAB use 30 to 35 lbs. per acre at "Green Tip" and aga "Pink Bud." Pink Bud treatments will also control POWDERY MILDEW. Do apply during or shortly before frost conditions. Do not apply to McIntosh, Go Delicious or Jonathan apples. Do not apply to D'Anjou or Comice pears.

ALMONDS, CHERRIES, PLUMS, PRUNES: For BRCWN ROT, POWDERY MILDEW, LEAF SPOTS, SILVER MITES, FLAT MITES, SPIDER MITES. AS A use 4 to 6 pounds per 100 gallons of water for ground applications. Use 10 to 3 15 to 20 gallons water per acre for aerial application. Apply at bloom or early prepeat as necessary, usually 10 to 14 day intervals or after periods of wet weath disease control. AS A DUST for BROWN ROT on Cherries use 40 to 50 lbs. per applied 2 to 3 weeks before harvest. FOR BROWN ROT and PRUNE ROT on and Prunes use 30 to 35 lbs. per acre 5 weeks before harvest. Repeat each 7 day weather prevails and disease threatens during the harvest period.

PEACHES, NECTARINES: For BROWN ROT, POWDERY MILDEW, SILVE & SPIDER MITES. AS A SPRAY use 4 to 6 pounds per 100 gallons of water fo applications. Use 10 to 30 lbs. in 15 to 20 gallons water per acre for aerial appli Apply at bloom or early petal fall. Repeat as necessary, usually 10 to 14 day in after periods of wet weather for disease control. AS A DUST for POWDERY use 50 lbs. per acre at petal fall, 2 weeks later and again at beginning of pit hard For RUST and POWDERY MILDEW use 50 lbs. after pit hardening. For SILV use 25 to 35 lbs. per acre after thinning. For BROWN ROT use 50 to 60 lbs./ac weeks pre-harvest and again 2 weeks later.

CITRUS: (GRAPEFRUIT, LEMONS, LIMES, ORANGES, TANGELOS, TANGERINES, CITRUS CITRON, KUMQUATS, and hybrids of these). For MITES, SILVER MITES, & SPIDER MITES. AS A SPRAY use 5 to 10 pounds programmer of gallons of water for ground applications. Use 10 to 30 lbs. in 15 to 20 gallons water for aerial application. For Florida CITRUS RUST MITE use 25 lbs. per 500 water equal to 40 to 50 lbs. sulfur per acre for ground applications. Use 40 to 50 lbs to 20 gallons water per acre for aerial application. Limit to one application season where supplemental rust mite control is needed between main sprays.

Otherwise, apply in any spray NOT CONTAINING OIL as needed for control during season or within 3 weeks of an oil spray as fruit burn may occur. Apply when mites are present in damaging numbers and repeat as needed or at 10 to 14 day intervals. See Re-Entry Statement.

CITRUS: AS A DUST for SIX SPOTTED MITE and CITRUS RUST MITE use 50 to 80 lbs. per acre. For CITRUS FLAT MITE use 80 to 100 lbs. per acre as needed. For YUMA MITE use 100 lbs. per acre. For CITRUS THRIP use 100 lbs. per acre in Mid March, Petal Fall and again 2 to 4 weeks later. Do not apply within 2 months of an oil spray. See Re-Entry-Statement.

OLIVES: For BUD MITES. AS A SPRAY use 2 pounds per 100 gallons of water. Apply athe first sign of mite build up and repeat for control as needed or at 10 to 14 day intervals.

AVOCADO: AS A SPRAY for BROWN MITES apply 2 to 6 lbs. per 100 gallons of water for ground applications. Use 10 to 30 lbs. in 15 to 20 gallons water per acre for aerial application. Apply at first sign of mite build up and repeat for control as needed or at 10 to 14 day intervals. See Re-Entry Statement.

FIG: AS A DUST for FIG RUST MITE use 40 lbs. per acre in spring and again in the early summer.

GRAPES: For POWDERY MILDEW, BUD MITES, BLISTER MITES, & SPIDER MITES. AS A SPRAY use 2 to 6 pounds per 100 gallons of water. Apply in late dormant or with 1.) "culworm spray;" 2.) in early shoot period; 3.) then through season at 14 day "cover spray" intervals or with or without pesticides. AS A DUST for POWDERY MILDEW use 15 to 20 lbs. per acre when shoots are 6, 12, & 18 inches long. Thereafter, repeat each 10 to 14 days to harvest. For RUST apply 15 to 20 lbs. per acre. Begin when new shoots are 6 inches long. Repeat before blossoms open and continue as necessary. NOTE: Concord and Labrusca type grapes may be injured by sulfur. Do not apply if temperatures during or shortly after treatment are expected to exceed 100° F. See Re-Entry Statements.

BLACKBERRY: (Rubis spp.) For RED BERRY MITE (Acalitus essigi) **AS A SPRAY** apply 3 to 5 pounds per 100 gallons of water. Start applications in early "bud swell" and repeat applications as necessary for mite control. **AS A DUST** use 15 to 20 lbs./acre and apply as for spray.

FOR BLACKBERRIES, BLUEBERRIES, RASPBERRIES, LOGANBERRIES, & CURRANTS (Rubis spp.): For POWDERY MILDEW (Sphaerotheca humuli): AS A SPRAY apply each week starting at first bloom color with 3 to 5 pounds per 100 gallons of water. Continue at 10 to 14 day intervals until fruit is set; then repeat as necessary and as weather conditions require. AS A DUST for POWDERY MILDEW use 15 to 20 lbs. per acre curing the pre-harvest season. See WHEN TO USE.

AS A SPRAY OR DUST FOR VEGETABLES

TOMATOES: AS A SPRAY for RUSSET MITES apply 3 to 5 pounds in sufficient water (15 gals. minimum for aerial application and 50 gallons minimum for ground rig) to treat an acre. Thorough coverage of upper and lower sides of leaves and fruit is required for effective control. Apply when mites are present in damaging numbers and repeat at 10 to 14 day intervals as needed. AS A DUST for control of RUSSET MITE use 30 to 40 lbs./acre. If crop is being grown with the aid of stakes or poles, apply 10 to 13 lbs. per acre per foot of average plant height. (Plants 4 ft. height = 40 to 52 lbs. per acre.)

BEANS, PEAS, BROCCOLI, CABBAGE, CAULIFLOWER, COLLARDS, KALE, AND PEPPERS for POWDERY MILDEW and on BEANS, PEAS AND PEPPERS for SPIDER MITES. AS A SPRAY use 3 to 5 pounds per acre in (15 to 50 gallons water) aerial or ground application respectively. Start in the early leaf stage. Repeat application every 10 to 14 days with or without pesticides or immediately after a rain. AS A DUST for POWDERY MILDEW & SPIDER MITES use 15 to 20 lbs./acre. Do not apply to varieties susceptible to sulfur injury. See WHEN TO USE :& RE-ENTRY STATEMENT.

CARROTS, ONIONS AND GARLIC: For control of PETROBIA MITE. AS A DUST use 25 to 30 lbs. per acre as needed for control. See WHEN TO USE.

MELONS: AS A DUST for POWDERY MILDEW use 15 to 20 lbs. per acre. For SPIDER MITES use 20 to 40 lbs./acre. Do not apply to varieties susceptible to sulfur injury. "Melon" foliage is extremely sensitive to sulfur burn. Observe use precautions and apply only when temperatures are well below 90° F. See paragraphs on WHEN TO USE and HOW MUCH SPRAY OR DUST TO USE.

POTATOES: AS A SPRAY for control of POWDERY MILDEW use 3 to 4 lbs. in sufficient water to cover 1 acre. Applying by aircraft use a minimum of 8 gallons of spray per acre. With ground equipment use a minimum of 10 gallons of spray per acre. Apply at first sign of infection and repeat at three week intervals.

AS A SPRAY OR DUST FOR FIELD CROPS

HOPS: AS A SPRAY for control of SPIDER MITES, use 2 to 6 pounds per 100 gallons of water. Start applications in the early leaf stage and repeat as needed or at 10 to 14 day intervals.

SUGAR BEETS: For POWDERY MILDEW & SPIDER MITES. AS A SPRAY apply 3 to 5 pounds per acre in 15 to 50 gallons of water by aircraft or ground rig respectively. Apply at first signs of insects or disease. Repeat applications should be made at 10 to 30 day intervals or as necessary throughout the season. Under most disease conditions only one or two applications will be needed. AS A DUST: For SPIDER MITES use 45 to 50 lbs. per acre. For POWDERY MILDEW use 25 to 50 lbs. per acre. For PUCCINIA RUST use 7-1/2 to 12-1/2 lbs. per acre. Apply at the first signs of disease. Repeat at 7 to 10 day intervals. This product may be applied by ground or air. Use the higher rate when applying by air. The use of this product in hot weather over 90° F may cause

foliage burn. See paragraphs on HOW MUCH TO USE AND RE-ENTRY STATEMENT.

COTTON AND SEED ALFALFA: AS A SPRAY for SPIDER MITES apply 3 to 5 pounds per acre in 20 to 50 gallons of water by aircraft or ground rig respectively. Apply when mites first appear to buildup on new growth and damage to plants is imminent. Thorough spray coverage must be made to the upper and lower portions of all foliage. AS A DUST on COTTON for the ATLANTIC MITE use 45 to 50 lbs. per acre when first observed in flower heads and before defoliation of more than the bottom leaves has occurred. Repeat as needed throughout seed-set. May cause some flower burn. Use low rate on immature plants.

PEANUTS: AS A SPRAY for POWDERY MILDEW, SPIDER MITES and LEAF SPOT diseases apply 3 to 5 pounds per acre in 15 to 50 gallons of water by aircraft or ground rig respectively. Start in the early leaf stage and repeat applications as necessary or at 10 to 14 day intervals.

ORNAMENTALS

AS A SPRAY use 2 to 6 pounds per 100 gallons of water and for use AS A DUST use 45 to 50 lbs. per acre for POWDERY MILDEW of Alder, Azalea, Buttonbush, Catalpa, Chrysanthemum, Dahlia, Delphinium, Honeysuckle, Horse Chestnut, Hydrangea, Lilac, Linden, Matrimony Vine, Phlox, Rhododendron, Rose, Staghorn Sumac, Sweetpea, Sycamore, Trumpet Vine, Witch-Hazel, Zinnia, RUSTS spp. of Aster, Carnation, Chrysanthemum, Rose, and Snapdragon. Make full coverage applications on both sides of leaves. Begin before disease appears. Repeat at 7 to 10 day intervals. See WHEN TO USE. Apply to plant foliage, stems and flowers to leave a "barely visible" dust residue. Do not over apply during full sun nor during times when temperatures exceed 90° F.

CHIGGER CONTROL IN LAWNS

For control of Chiggers in Lawns and Ornamental and Recreation Turf areas AS A SPRAY mix 4 to 5 lbs. per 30 gallons of water to cover 5,000 sq. ft. of area. Spray all grass and weed foliage 24 hours before unexpected use. Keep children and pets out of sprayed area 24 hours or until spray has dried. AS A DUST apply 1 lb. per 1000 sq. ft. of area, 24 hours before expected use. Repeat as needed for season control. (Ref: Metcalf & Flint 1951 p. 990.)

USE AS A SOIL AMENDMENT FOR PH ADJUSTMENT

After checking with your local Cooperative Agricultural Extension Service, your soil requirements should be obtained from a soil sample analysis. Many soils will respond to an application of Sulfur to decrease the pH (Acidity). If soils are known to respond to this treatment and Sulfur is recommended to amend the acidity, apply 1 to 2 lbs. of this product per 100 sq. ft. of soil surface. Do not apply more than 2 lbs. per 100 sq. ft. at one time. If more is needed, split the applications by applying the second increment in 6 to 8 weeks. For best results on small garden areas rake or till the Sulfur into the top 4 to 6 inches of soil.

HOW MUCH TO USE ON SOIL			
pH of soil	Pounds of Sulfur per 100 sq. ft. of soil to Change pH to 5.2		
	Sandy Soil	Loam Soil	Muck or Peat
7.0	2	3	6
6.5	1	2	5

For (pH) treatment of individual plants 4 to 5 feet in height, use 1 level tablespoonful per plant every 2 months. Do not apply sulfur during extremely hot (95° F) and humid days.

6.0

IMPORTANT

In order to obtain effective mite and disease control, both the upper and lower sides of plant foliage and fruit must be thoroughly covered with spray solution. Poor spray coverage will result in poor mite and disease control. When growing crops for "processing," consult the processor before applying sulfur. Do not use on any crop unless sulfur has been shown to be safe for that crop in your locality. Sulfur may burn foliage when temperatures exceed 90° F. Sulfur will cause severe fruit and leaf injury to sensitive plants. Do not use on or allow product to drift onto Apricots, D'Anjou or Comice Pears, Cranberries, Cucurbits (Cucumbers, Squash and some varieties of Melons), Filberts, Spinach, Tung Trees, Walnuts and other sensitive plants. Do not apply within 14 days of oil spray for all crops except CITRUS. FOR CITRUS do not apply within 21 days of an oil spray.