

Reg # 63603-1

PM-21

10/4

File



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

MAY 17 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Linda C. Waston
PESTICIDE REGULATORY SERVICES
AGENT FOR SMITH & ARDUSSI, INC.
VALDOSTA, GA 31602

Subject: Label Amendment Submission of 10/20/93 in Response to PR Notice 93-7
EPA Reg. No. 63603-1
SUL-PREME 52 FLOWABLE 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. 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:

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.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

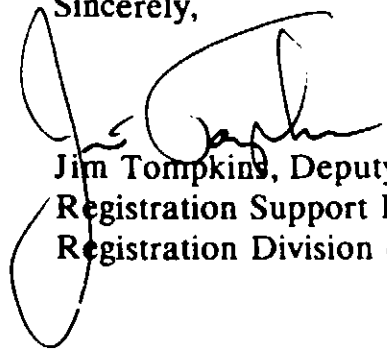
Submit the final printed labeling via the U.S. Postal Service to:

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,



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

Attachment

HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION

Harmful if swallowed. Avoid breathing spray mist. May cause irritation of nose, throat or skin. Avoid contact with eyes, skin and clothing. Do not contaminate feed or foodstuffs.

PERSONAL PROTECTIVE EQUIPMENT

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

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.

ENGINEERING CONTROLS STATEMENTS

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

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

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.

STORAGE AND DISPOSAL

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

STORAGE: Store unused product in original container only in cool, dry area out of reach of children and animals. Do not store over 120°F.

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: Triple rinse (or equivalent). Then offer for recycling, reconditioning, or purchase 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

SMITH & ARDUSSI, INC. warrants that this product in its unopened package 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, concerning the use of this product other than indicated on the label. The 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

SUL-PREME® 52

Flowable Sulfur

For Aerial or Ground Application

ACTIVE INGREDIENT:

Sulfur 52.0%

INERT INGREDIENTS: 48.0%

TOTAL 100.0%

Contains 6 lbs of Sulfur per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

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

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

IF IN EYES: Wash eyes with plenty of clear water for at least 15 minutes. Call a physician if irritation persists.

See side panel for additional precautionary statements

SUL-PREME IS A REGISTERED TRADEMARK OF SMITH & ARDUSSI, INC.

E.P.A. Reg. No. 53603-1

E.P.A. Est. No. 53603-WA-001

SMITH & ARDUSSI, INC.

SEATTLE, WA 98119

NET CONTENTS: 5 Gallons (19 Litres)

WEIGHT PER GALLON: 11.5 LBS./GAL.

ACCEPTED

with COMMENTS
In EPA Letter Dated

MAY 17 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

63603-1

PRODUCT INFO

SUL-PREME 52 FLOWABLE SULFUR may be applied as a ground or aerial Agricultural Experiment Station or Extension treatments from this label to best fit local

USE ONLY ON CROPS LISTED AND ON EXCEPT ON COTTON. Do not apply when to exceed 90°F. Do not use sulfur with (for citrus 21 days). Do not combine with

NOTE: Sulfur will cause severe fruit and Do not apply or allow to drift to apply cranberries, cucurbits (cucumber, cantaloupe, squash, pumpkins), walnuts or other foliage and fruit during periods of high climate conditions.

SUL-PREME 52 FLOWABLE SULFUR can be mixed with fertilizer or water.

DO NOT STOP AGITATION WITH SULFUR. IS HIGHLY CORROSIVE. AND EQUIPMENT SHOULD BE WASHED THOROUGHLY AFTER EACH DAY'S SPRAYING.

CHEMIGATION

Apply this product only through sprayer-booms, center pivots, or other systems that move, and tow, side (wheel) roll, travel, or other irrigation systems. Do not apply this product to irrigation systems. Crop injury, lack of residue in the crop can result from non-uniform application. If you have questions about calibration, contact Service specialists, equipment manufacturer, or knowledgeable of the chemigation system or under the supervision of the responsible person. Down and make necessary adjustments. DO NOT STOP AGITATION WITH SULFUR. IS HIGHLY CORROSIVE AND EQUIPMENT SHOULD BE WASHED THOROUGHLY.

For center pivots, apply during one full rotation. For portable or solid set systems, apply during irrigation systems. DO NOT OPERATE EQUIPMENT UNTIL DEPOSIT HAS THICKENED.

Public water system means a system for the supply of water for human consumption if such connections or regularly serves an average of at least 50 days out of the year. Do not connect chemigation systems used for pesticide application to public water systems unless the pesticide label-prescribed safety precautions are in place. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone device (RPZD) or other functional equivalent in the water supply line to prevent pesticide introduction.

As an option to the RPZD, the water from the reservoir tank prior to the complete physical break (air gap) between the top or overflow rim of the reservoir and the diameter of the fill pipe. For non-public water systems, the system must contain a functional, reduced-pressure zone device (RPZD) or other functional equivalent in the water supply line to prevent pesticide introduction. The system must contain a functional interlock to prevent fluid from being introduced when the irrigation system is either automatic or manual. In cases where there is no water pump, the system must contain a functional interlock to the point where pesticide distribution is required. Systems must use a metering pump or injection pump (e.g., diaphragm pump) and not a pump that is compatible with pesticides. Do not apply to the area intended for treatment.

BEST AVAILABLE

RECOMMENDATIONS

FRUIT TREE CROPS:

Unless otherwise specified for specific crops, dosage rates are given as pints of SUL-PREME 52 FLOWABLE SULFUR per 100 gallons water for use in a thorough coverage spray. The total amount of SUL-PREME 52 FLOWABLE SULFUR per acre should be 2 to 4 gallons depending on the size of the trees. Because of variations in the types of spray equipment used, a range of low and high rates is listed. For high volume sprayers (output 800 to 1000 gallons spray per acre) use the low rate; for low volume sprayers (output 20 to 300 gallons spray per acre) use the high rate.

APPLE, PEAR:

Scab:
Pre-bloom through calyx sprays 1 1/2 to 3 1/2 pints
Cover Sprays 3/4 to 2 pints
Powdery Mildew:
Pre-bloom through calyx sprays 3 pints
Cover Sprays 2 pints

CHERRY, PLUM, PRUNE:

Brown Rot, Leafspot:
Pink and Bloom Sprays 1 1/2 to 3 1/2 pints
Petal fall, shuck & cover sprays 2/3 to 3/4 pints

CITRUS:

Rust Mite, Clover Mite, Thrips-Begin application at the first sign of infestation. Apply 1 to 2 gallons per acre in sufficient water for thorough coverage. Repeat if necessary. Do not apply within 21 days of an oil application.

MANGOES: For control of powdery mildew, apply 4 gals per acre before flowering and continue at intervals of 20 days.

PEACH, NECTARINE:

Powdery Mildew, Brown Rot, Scab:
Pink and Bloom Sprays 1 1/2 to 3 1/2 pints
Petal Fall, shuck and cover sprays 2/3 to 1 3/4 pints
Application to mature nectaries may cause discoloration.

SOFT FRUIT:

Unless otherwise specified for specific crops, dosage rates are given as pints or gallons of SUL-PREME FLOWABLE SULFUR per acre. This product should be applied by ground equipment, or aircraft in sufficient water to provide thorough coverage.

BLACKBERRIES, BOYSENBERRIES, DEWBERRIES, LOGANBERRIES, BLUEBERRIES, GOOSEBERRIES, HUCKLEBERRIES, AND CURRANTS: For control of powdery mildew. Apply 2 1/2 gallons per acre before blossom and continue at 10 day intervals as necessary.

RASPBERRIES: For control of powdery mildew, apply 2 1/2 gallons per acre each week from first bloom to fruit set.

STRAWBERRIES: For control of powdery mildew, use 2 pints. Apply at first sign of infection and repeat at 3 week intervals. For strawberries that will be canned discontinue application of sulfur well before harvest in accordance with local canners' recommendations.

FIELD AND VINE CROPS:

Unless otherwise specified for specific crops, dosage rates are given as pints of SUL-PREME 52 FLOWABLE SULFUR per acre. This product should be applied by ground equipment, or aircraft in sufficient water to provide thorough coverage.

BEANS (dry, colored, green, snap, lima): Powdery mildew, Rust: Use 4 to 8 pints of SUL-PREME 52 FLOWABLE SULFUR per acre in sufficient water for thorough coverage. Begin application at the first sign of disease. Repeat at 7 to 14 day intervals to keep new growth protected.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE, MUSTARD GREENS, RUTABAGAS, PEPPERS, TURNIPS: Powdery mildew and red spider mite, apply 7 pints per acre at early leaf stage and repeat every 14 days as necessary.

CARROTS: Powdery mildew and Petrosia mite, apply 13 pints per acre at early leaf stage and repeat every 14 days as necessary.

CEREALS: Corn, wheat, barley, oats, rye, sorghum: Red spider mite, two spotted mite, Pacific mite and Atlantic mite, apply 2 1/2 gallons per acre when mites first appear and continue as necessary

RECOMMENDATIONS

COTTON: Atlantic Mite. 2 pints for early season control and up to 1 gallon for mid to late season control.

GRAPES: Powdery Mildew. Use 1 to 2 pints per 100 gallons water, maximum of 8 pints SUL-PREME 52 FLOWABLE SULFUR per acre in spring and summer. Make first application when shoots are 6 to 8 inches long, second when shoots are 12 to 15 inches long, and third at about bloom stage. The timing, rate and number of applications will vary with local conditions. Consult State Agricultural Extension Service or State Agricultural Experiment Stations in your region for specific information. Follow the USE PRECAUTIONS given on this label.

ONIONS AND GARLIC: Powdery mildew and Petrosia mite. Apply 1 gallon per acre when disease first appears and repeat as necessary.

PEANUTS: For rust use 2 to 4 pints per acre of SUL-PREME 52 FLOWABLE SULFUR in enough water for good coverage. Begin 40 to 60 days after planting. Use 7 to 14 day intervals as long as needed to control rust.

PEAS: Sulfur deficiency. Use 1-2 quarts per acre starting at late bud to early bloom stage. Repeat in 10-14 days.

POTATOES: Powdery Mildew. Use 3 to 4 pints in 8 gallons water per acre by air. Apply at the first sign of infection and repeat at 3 week intervals.

PEPPERMINT AND SPEARMINT: Powdery mildew and Mites: Apply 2 quarts per acre in sufficient water to insure thorough coverage of plants when first sign of infection appears. Apply first spray when plants 4 to 5 leaves followed by additional sprays at 3 week intervals, until bud stage or 4 weeks before harvest.

After harvest, apply when infection appears or when plants have 4 to 5 leaves and repeat at 3 week intervals as often as necessary to cover new growth or until growth ceases in the fall.

Before applying on a crop to be harvested for oil, authorization should be obtained from the buyer of the oil.

Use a minimum of 10 gallons per acre of spray solution, whether applied by aerial or ground spray equipment.

SOYBEANS: Leaf spot and Powdery mildew, apply 2 gallons per acre at early leaf stage and repeat every 14 days as necessary.

SUGAR BEETS: For control of powdery mildew apply the recommended rate in 10 gallons of water per acre by air at first sign of infection. Use 4-8 pints per acre in the Northwest, West and Midwest. 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.

TOMATOES: Tomato Russet Mite, use 1/2 to 1 gallon per acre depending upon size of plants. Use full coverage sprays.

Sprinkler Irrigation Water - Use 1-2 gallons per acre by injecting into sprinkler system at or near the irrigation pump. For center pivot systems, apply during one full revolution of the system. For portable or solid set systems, apply during the final 15 minutes of the irrigation period. Do not operate irrigation systems containing: 1) anti-siphon and check valves which will prevent water source contamination and overflow of the slurry tank. 2) interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

ORNAMENTALS: For control of powdery mildew of Alder, Azalea, Bittersweet, Boston Ivy, Buttonbush, Catalpa, Chrysanthemums, Dahlia, Delphinium, Dogwood, Honeysuckle, Horse Chestnut, Hydrangea, Lilac, Linden, Magnolia, Manmony Vine, Phlox, Rhododendron, Rose, Staghorn Sumac, Sweet Pea, Sycamore Trumpet Vine, Which-Hazel, Zinnia and for control of Rust of Aster, Carnation, Rose, Snapdragon, apply 7 pints to 100 gallons of water when disease first appears and repeat at 10 day intervals as required.

BEST AVAILABLE COPY