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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

AUG 10 1994

Linda C. Watson  
Consultant/Regulatory Affairs  
Route One Box 143-A  
Banks Lake, Hwy 122  
Lakeland, Georgia 31635

Dear Ms. Watson:

Subject: Label Admendment - Clarification of Text  
Sul-Preme 52 Flowable Sulfur  
EPA Registration No. 63603-1  
Your Submission Dated January 18, 1994

The labeling referring to above, submitted in connection with registration under Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable.

Please submit five (5) copies of your final printed labeling before you release the product before 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,

*SR*  
Steve Robbins  
Acting Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

CONCURRENCES							
SYMBOL	7505C						
SURNAME	Robbins						
DATE	8-11-94						

2072

AMENDMENT

Sul-Preme 52 Flowable Sulfur

EPA Reg. No. 63603-1

PEAS: Powdery mildew. Apply 3 to 7 pints per acre at early leaf stage and repeat every 10 to 14 days as necessary. Sulfur deficiency. Use 1-2 quarts per acre starting at late bud to early bloom stage. Repeat in 10 to 14 days.

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

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

Pear Rust Mite:

Add 1 quart per 100 gallons to be applied with oil during either dormant or delayed dormant applications.

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

8-10-94

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

63603-1

PM 21 63603-1

**PRECAUTIONARY STATEMENTS  
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) or 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 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.

**SUL-PREME® 52**

**Flowable Sulfur**

**For Aerial or Ground Application**

ACTIVE INGREDIENT:		
Sulfur	52.0%	
INERT INGREDIENTS:	48.0%	
TOTAL	100.0%	

ACCEPTED

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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 63603-1  
E.P.A. Est No. 63603-WA-001

**SMITH & ARDUSSI, INC.**  
SEATTLE, WA 98119

NET CONTENTS: 5 Gallons (19 Litres)  
WEIGHT PER GALLON: 11.5 LBS./GAL.

**BEST COPY AVAILABLE**

**PRODUCT INFORMATION**

SUL-PREME 52 FLOWABLE SULFUR is to be applied as a ground or aerial application. For more information, contact your Experiment Station or Extension Specialist from this label to best fit local conditions.

**USE ONLY ON CROPS LISTED AND EXCEPT ON COTTON.** Do not apply when temperature exceeds 90°F. Do not use sulfur with citrus 21 days), unless applied with a plants. Do not combine with emulsifiable

**NOTE:** Sulfur will cause severe fruit drop. Do not apply or allow to drift to cranberries, cucurbits (cucumber, squash, spinach, lung trees, walnuts or other plants) and fruit during periods of high temperature.

SUL-PREME 52 FLOWABLE SULFUR is a fertilizer or water.

**DO NOT STOP AGITATION WITH SULFUR. HIGHLY CORROSIVE. AND EQUIPMENT AFTER EACH DAY'S SPRAYING.**

**CHEMIGATION**

Apply this product only through sprinkler end low, side (wheel) roll, traveler, big systems. Do not apply this product to a system. Crop injury, lack of effectiveness, crop can result from nonuniform distribution. For questions about calibration, you should consult specialists, equipment manufacturer, knowledgeable of the chemigation system under the supervision of the responsible person and make necessary adjustments should be required.

**DO NOT STOP AGITATION WITH SULFUR. HIGHLY CORROSIVE AND EQUIPMENT**

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

Public water system means a system of pipes, conduits, or other devices for the conveyance of water for human consumption if such system or regularly serves an average of at least 60 days out of the year. Do not use this product in greenhouses (used for pest control) unless the pesticide label-prescribed directions are in place. Chemigation systems contain a functional, reduced-pressure safety device (functional equivalent in the water supply system) to prevent pesticide introduction.

As an option to the RPZ, the water from the discharge into a reservoir tank prior to a 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 check valve or pressure drain appropriately located or source contamination from backflow preventer. The system must contain a functional, automatic, quick-closing device of fluid back toward the injection pump. The system must also contain a functional, normally closed check valve on the intake side of the injection pump to prevent fluid from being withdrawn from the system. The system is either automatically or manually controlled. The system must contain functional interlocking controls to prevent the injection pump when the water pump is not operating. When the water pump is not operating, the water pump must not operate. Pesticide distribution is adversely affected. Systems must use a metering pump, such as a diaphragm pump, or other pump (e.g., diaphragm pump) effective materials that are compatible with the system interlock. Do not apply when water is intended for treatment.

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## 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

Pear Rust Mite.

Add 1 quart per 100 gallons to be applied with oil during either dormant or delayed dormant applications.

### CHERRY, PLUM, PRUNE:

Brown Rot, Leaf spot.

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 gallons 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 nectarines may cause discoloration.

### SOFT FRUIT:

Unless otherwise specified for specific crops, dosage rates are given as pints or gallons 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.

**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 days 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 Petrobia 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 Petrobia 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:** Powdery mildew. Apply 3 to 7 pints per acre at early leaf stage and repeat every 10 to 14 days as necessary. Sulfur deficiency. Use 1-2 quarts per acre starting at late bud to early bloom stage. Repeat in 10 to 14 days.

**POTATOES:** Powdery Mildew and Suppression of Early Blight. Use 2-4 quarts 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 2-4 quarts per acre in sufficient water to insure thorough coverage of plants when first sign of infection appears. Apply first spray when plants have 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 system after application until deposit has thoroughly dried. Apply the product through 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, Matrimony Vine, Phlox, Rhododendron, Rose, Staghorn Sumac, Sweet Pea, Sycamore, Trumpet Vine, Witch-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.

## 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 use.

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