

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO. 63603-1	DATE OF ISSUANCE MAR 08 1993
	TERM OF ISSUANCE CONDITIONAL	
	NAME OF PESTICIDE PRODUCT SUL-PREME 52 FLOWABLE SULFUR	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Smith & Ardussi, Inc.
 201 Elliott Avenue West, Suite 205
 Seattle Washington 98119

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
 - Add the phrase "EPA Registration No. 63603-1."
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Benjamin C. Champalis for Susan T. Lewis</i>	DATE MAR 08 1993
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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Ben C. Chambliss
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

) Enclosures

)

ACCEPTED
MARCH 8, 1993
EPA REG. NO. 63603-1

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.

EPA Reg. No. 63603-
EPA Est. No. 63603-WA-001

SMITH & ARDUSSI, INC.
Seattle, WA 98119

NET CONTENTS: 5 Gallons (19 Litres)
WEIGHT PER GALLON: 11.5 lbs./gal.

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.

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.

RE-ENTRY STATEMENT

Do not enter into treated area until at least 24 hours after the completion of application to the area unless wearing the protective clothing listed below. During early re-entry into treated areas (less than 24 hours after the completion of application) to perform hand labor tasks, wear long pants (or coveralls), long sleeved shirt, shoes, socks, chemical/water resistant gloves, goggles or face shield. Pesticide Handlers: During mixing, loading and application of this product, wear long pants (or coveralls), long sleeved shirt, shoes, socks, chemical/water resistant gloves and goggles or face shield.

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.

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.

CAUTION: Area treated with SUL-PREME 52 FLOWABLE SULFUR on _____
Do not enter without appropriate protective clothing for 24 hours following application. In case of accidental exposure, see the Statement of Practical Treatment on this label.

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.

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.

PRODUCT INFORMATION

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SUL-PREME 52 FLOWABLE SULFUR is a flowable sulfur formulation that may be applied as a ground or aerial application. Consult your State Agricultural Experiment Station or Extension Specialist for advice in selecting treatments from this label to best fit local conditions.

USE ONLY ON CROPS LISTED AND ONLY AS SPECIFIED ON THIS LABEL, EXCEPT ON COTTON, do not apply when temperatures exceed or are likely to exceed 90°F. Do not use sulfur with oil or within 14 days of an oil spray (for citrus 21 days). Do not combine with emulsifiable liquids.

NOTE: Sulfur will cause severe fruit and leaf injury to sulfur-sensitive crops. Do not apply or allow to drift to apricots, d'Anjou and Comice pears, cranberries, cucurbits (cucumber, cantelopes, melons, squash), filberts, spinach, tung trees, walnuts or other sensitive plants. Sulfur may burn foliage and fruit during periods of high temperatures and under certain climate conditions.

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

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

CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide 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. 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 arise.

DO NOT STOP AGITATION WITH SULFUR IN SUPPLY TANK. SULFUR IS HIGHLY CORROSIVE AND EQUIPMENT SHOULD BE CLEANED THOROUGHLY.

For center pivots, apply during one full revolution of the system.

For portable or solid set systems, apply during the final 15 minutes of irrigation systems. DO NOT OPERATE IRRIGATION SYSTEM AFTER APPLICATION UNTIL DEPOSIT HAS THOROUGHLY DRIED.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 serviced connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction.

As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. For non-public water sprinkler chemigation systems, the system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation 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, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation 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, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

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 50 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 calyz sprays.....1½ to 3½ pints
- Cover Sprays.....¾ 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..... 1½ to 3½ pints
- Petal fall, shuck & cover sprays..... 2/3 to ¾ 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.

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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 1/4 to 3 1/4 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 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, MILDARD 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.

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 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: 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 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 on 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, 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.