



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

JAN 26 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Judy Oldham
HELENA CHEMICAL CO.
6075 POPULAR AVE - SUITE 500
MEMPHIS, TN 38119

Subject: Label Amendment Submission of 08/04/93 in Response to PR Notice 93-7
EPA Reg. No. 5905-437
HELENA LIQUID SULFUR SIX

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.



Recycled/Recyclable
Printed with Soy-Cansis Ink on paper that
contains at least 80% recycled fiber

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Judy Oldham
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6075 POPULAR AVE - SUITE 500
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Subject: Label Amendment Submission of 08/04/93
to Comply with WPS Labeling Requirements
EPA Reg Nr. 5905-437
HELENA LIQUID SULFUR SIX

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

Insert the following statement above the Agricultural Use Requirements box: "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." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

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ACCEPTED
with COMMENTS
in EPA Letter Dated
JAN 26 1994

EPA approved label 2/15/89
Revised for WPS 8/5/93

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5905-437

LIQUID SULFUR SIX

ACTIVE INGREDIENT:

Sulfur 52.00%

INERT INGREDIENTS: 48.00%

TOTAL 100.00%

This product contains 6 lbs. of Sulfur per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Additional Precautionary Statements And Directions for Use Inside Label.

EPA REG. NO.: 5905-437
EPA EST. NO.

NET CONTENTS:

**MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Give one or two glasses of water and induce vomiting by sticking finger or blunt object down throat.

IF ON SKIN: Wash thoroughly with soap and water.

IF IN EYES: Wash eyes with plenty of clear water for at least 15 minutes.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Waterproof gloves

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 apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from heat, sparks, or flame. Do not smoke while applying this product.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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

STORAGE AND DISPOSAL

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

Product may be stored and if frozen may generally be restored after thawing and mixing. Repeated freezing-thawing cycles may impair utility.

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 or 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

Liquid Sulfur Six is a flowable sulfur formulation that can be mixed with liquid fertilizers or water and applied by ground or air application. Consult your state or local extension specialist for additional treatment information.

Sulfur may cause injury if used improperly or under unfavorable weather conditions. During periods of high temperature Sulfur may burn foliage. Do not make Sulfur applications at such times.

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, cantaloupes, melons, squash), filberts, spinach, tung trees, walnuts or other sensitive trees.

**DO NOT USE WITHIN FOUR (4) WEEKS OF AN OIL SPRAYING
SULFUR IS HIGHLY CORROSIVE, AND EQUIPMENT SHOULD BE
CLEANED THOROUGHLY AFTER EACH DAY'S SPRAYING.**

DIRECTIONS FOR MIXING

BEFORE USING, STIR UNTIL SMOOTH

Pour recommended amount in partially filled spray tank. Keep agitator running during filling and spraying operation. **DO NOT ALLOW MIXTURE TO STAND.** Failure to maintain agitation will cause **Liquid Sulfur Six** to settle and may necessitate manual stirring to redisperse.

RECOMMENDATIONS:

**WHEN GROWING CROPS FOR PROCESSING,
CONSULT THE PROCESSOR BEFORE APPLYING SULFUR.**

Unless otherwise specified for specific crops, dosage rates are given as pints of **Liquid Sulfur Six** per 100 gallons water for use in a thorough coverage spray. The total amount of **Liquid Sulfur Six** per acre should be 2 to 4 gallons depending on the size of 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.

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

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

ALMOND CHERRY, PLUM AND PRUNE:

Brown Rot, Leafspot

Pink and Bloom Sprays 1-1/2 to 3-1/2 pints

Petal fall, shuck & cover sprays 2/3 to 1-3/4 pints

AVOCADOS:

Brown Mite: Use 3-5 pints. Apply in a minimum of 8 gallons of water by air.

BEANS, PEAS, COLE CROPS, PEPPERS:

Powdery Mildew, Red Spider Spp. - Use 3-4 pints in 8 gallons of water by air. Apply at first sign of infection and repeat at 3 week intervals.

CITRUS: Oranges, Lime, Grapefruit, Lemons, Tangelos, and Tangerines:

To control Rust Mites, Clover Mite - Use 3/4 to 4-1/2 pints. Apply spray November thru May.

Thrips (Early spring treatment for the reduction of Thrips population) - Apply 1 to 2 gallons per acre in sufficient water for thorough coverage. Make application after spring flush has made 3 to 4 inch growth. Repeat if necessary. Do not apply within 21 days of an oil application.

PEACH, NECTARINE:

To control Powdery Mildew, Brown Rot, Scabs - Use 1-1/2 to 3-1/2 pints per 100 gallons of water applied at pink and bloom. Use 2/3 to 2-3/4 pints per 100 gallons of water at petal fall, shuck split, shuck fall and at 10 to 14 day intervals as long as necessary. For Brown Rot of fruit, apply when fruit starts to ripen. Application to mature nectarines may cause discoloration.

FIELD AND VINE CROPS:

Unless otherwise specified for specific crops, dosage rates are given as pints of Liquid Sulfur Six per acre. This product should be applied by ground equipment or aircraft in sufficient water to provide thorough coverage.

COTTON:

Atlantic Mite - 2 pints for early season control and up to 1 gallon for mid to late season control. Do not apply when temperature exceeds 90°F.

GRAPES:

Powdery Mildew Control - Use 1-2 pints per 100 gallons of water, maximum of 8 pints Liquid Sulfur Six in spring and summer. Applications in California, use 2-3 quarts per acre in enough water for thorough coverage or per 100 gallons of water in spring and summer applications. Make the first application when shoots are 6-8 inches long, the second when shoots are 12-15 inches long and the third at about bloom stage. Timing, rates, and number of applications vary with local conditions. Consult your state Agricultural Extension Service for specific recommendations.

PEANUTS:

For Rust - Use 2 to 4 pints per acre of Liquid Sulfur Six in enough water for good coverage. Apply when disease threatens. Repeat at 7 to 10 day intervals as necessary.

POTATOES:

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

SUGAR BEETS:

Powdery Mildew Control - Apply 2-4 quarts, depending on disease pressure, for 2-4 applications at 2 week intervals when disease symptoms first appear. For aerial application, use sufficient water to obtain adequate coverage.

STRAWBERRIES:

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.

TOMATOES:

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

**CONDITIONS OF SALE - LIMITED WARRANTY
AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena (The Company) or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and users accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.