



PM&I 5905-518 RE SA/078

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

MAY 06 1994

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 04/25/93 in Response to PR Notice 93-7
EPA Reg. No. 5905-518
LIME-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) 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

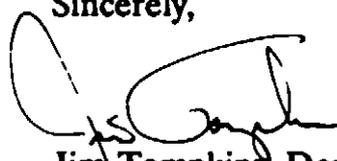
Submit the final printed labeling via the U.S. Postal Service to:

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

HELENA CHEMICAL CO.
5905-518 04/25/93
LIME-SULFUR
Original Submission

The footwear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Shoes plus socks." The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The footwear requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Shoes plus socks." The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

2/25/98

LIME-SULFUR

ACTIVE INGREDIENT:	BY WEIGHT
Calcium Polysulfide	29.0%
INERT INGREDIENTS:	<u>71.0%</u>
TOTAL	100.0%

ACCEPTED
with COMMENTS
in EPA Letter Dated
MAY 06 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
5905-518

KEEP OUT OF REACH OF CHILDREN

CAUTION

HARMFUL IF SWALLOWED. DO NOT SWALLOW OR INHALE.

STATEMENT OF PRACTICAL TREATMENT (First Aid):

IF SWALLOWED: Administer water freely and induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Professional medical assistance should be secured immediately.

IF ON SKIN: ~~Rinse off material and~~ wash skin with soap and water. Get medical attention if irritation persists.

IF IN EYES: Wash with plenty of water for at least 15 minutes. Get medical attention.

IF INHALED: Remove to fresh air. **IF NOT BREATHING:** Give artificial respiration, preferably mouth to mouth. Get medical attention. Never give anything by mouth to an unconscious person.

SEE ADDITIONAL PRECAUTIONS ON SIDE PANEL

EPA REG. NO. : 5905-518

NET CONTENTS: _____ GALLONS

EPA EST. NO.:

MANUFACTURED FOR:
HELENA CHEMICAL COMPANY
MEMPHIS, TN 38119

5978

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

CAUTION

Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-Sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective Eyewear
- Chemical-resistant headgear for overhead exposure

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.

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 apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated.

PHYSICAL OR CHEMICAL HAZARDS

MAY GIVE OFF HIGHLY TOXIC AND EXTREMELY FLAMMABLE HYDROGEN SULFIDE GAS IF MIXED WITH ACIDS.

CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

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 48 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
- Chemical-resistant footwear plus socks
- Protective Eyewear
- Chemical-resistant headgear for overhead exposure

Do not apply or allow to drift into sulfur sensitive crops or varieties. Do not apply during periods of extreme heat.

Do not apply within 10-14 days of an oil spray. Do not during freezing weather.

LIME-SULFUR is not compatible with Bordeaux mixture, Captan, fixed copper compounds, Folpet, and many insecticides.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

STORAGE: Store in cool, dry area.

DISPOSAL: Triple rinse drums and bulk containers. Offer drums for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

ALMONDS: *Powdery Mildew, Shothole* - Apply 8 gallons per 100 gallons of water. Apply every 2 weeks between November 15 and December 15. Dormant application only.

APPLES: *Blotch* - Apply 1 gallon per 50 gallons of water. Apply in pre-bloom and petal fall stages and 10 days later. *Leaf Spot* - Apply 7-1/2 to 10 gallons per 100 gallons of water in delayed dormant stage or 1/2 gallon per 100 gallons of water in growing season. *Powdery Mildew* - Apply 2-1/2 gallons per 100 gallons of water. Apply in pre-pink, pink and calyx stages. *Scab* - Apply 1-1/2 to 2 gallons per 100 gallons of water in delayed dormant, pre-pink, and pink stage. **Caution:** Use on Delicious apples may result in injury. No time limitation.

BLACKBERRIES: *Anthraco*se, *Powdery Mildew*, *Rust* - Apply 6-12 gallons per 100 gallons of water. Apply in dormant or delayed dormant (green bud) stage. Use 1/2 gallon per 100 gallons of water when fruit canes are 8 to 12 inches long and before blossoms have opened. *Overwintering Fungus Spores*, *Cane Blight* - Apply 9-1/2 quarts per 100 gallons of water. Apply in dormant stage.

CHERRIES (Sweet): *Powdery Mildew*, *Rust* - Apply 7-1/2 gallons per 100 gallons of water. Apply in delayed dormant stage.

CHERRIES (Tart): *Brown Rot Blossom Blight*, *Leaf Spot*, *Scab* - Apply 1-1/2 gallons per 100 gallons of water. Apply in pre-bloom, early bloom and full bloom stages. *Brown Rot (fruit)*, *Leaf Spot*, *Powdery Mildew* - Apply 1/2 gallon per 100 gallons of water. Apply 3 to 5 spray at weekly intervals just before harvest.

CURRENTS, GOOSEBERRIES: *Anthraco*se - Apply 2-1/2 gallons per 100 gallons of water. Apply at bud break stage, and 10 to 15 days later. Use 3 pints per 100 gallons of water at 10-day intervals after second spray, if necessary. *Powdery Mildew* - Apply 1-1/2 quarts per 100 gallons of water. Apply before and after bloom.

FRUIT TREES (Bearing): *Overwintering Fungus Spores* - Apply 3-1/2 gallons per 100 gallons of water. Apply in dormant stage.

FRUIT TREES (Non-bearing): *Blotch*, *Powdery Mildew*, *Scab* - Apply 2-1/2 quarts per 100 gallons of water. Apply at cluster bud and pre-bloom stages.

GRAPES: *Anthraco*se, *Powdery Mildew* - Apply 2 quarts per 100 gallons when shoots are 4 to 6 inches long.

NECTARINES: *Brown Rot*, *Leaf Spot*, *Shothole* - Apply 7 gallons per 100 gallons of water. Apply 3 to 5 sprays at weekly intervals before harvest. *Leaf Curl* - Apply 6 gallons per 100 gallons of water. Apply in early winter and late dormant period. *Powdery Mildew* - Apply 2 to 3 quarts per 100 gallons of water. Apply when disease appears.

PEACHES: *Brown Rot*, *Leaf Spot* - Apply 2 quarts per 100 gallons of water. Apply 3 to 5 sprays at weekly intervals before harvest. **Brown Rot Blossom Blight** - Apply 1 pint per 8 to 16 gallons of water. Apply in pre-bloom, early bloom and full bloom stages. **Leaf Curl, Scab, Shothole** - Apply 10 to 12 gallons per 100 gallons of water. Apply in dormant season. *Powdery Mildew* - Apply 7-1/2 gallons per 100 gallons of water. Apply at delayed dormant stage and 4 to 5 gallons per 100 gallons of water at green tip stage. Use 1-1/2 quarts per 100 gallons of water on summer foliage.

PLUMS: *Blotch*, *Powdery Mildew* - Apply 2 quarts per 100 gallons of water. Begin 3 to 5 weeks before harvest. Repeat weekly until picking. *Black Knot* - Apply 1/2 pint per 1 gallon of water. Apply in green tip stage. *Brown Rot (Fruit Rot)* - Apply 1 pint per 16 gallons of water. Apply 20, 10 and 2 days before harvest. *Leaf Curl* - Apply 10 to 12 gallons per 100 gallons of water. Apply in dormant stage.

PRUNES: *Black Knot* - Apply 1/2 pint per 1 gallon of water. Apply in green tip stage. *Brown Rot (Fruit*

Rot), Leaf Spot, Powdery Mildew - Apply 2 quarts per 100 gallons of water and begin 3 to 5 weeks before harvest. Apply at weekly intervals until picking.

QUINCE: *Scab* - Apply 1 gallon per 100 gallons of water. Apply at 10 day intervals during primary infestation period.

RASPBERRIES: *Anthracnose, Powdery Mildew* - Apply 1 pint per 1-1/2 gallons of water. Spray once when new canes are 8 to 12 inches long. *Cane Blight* - Apply 1 pint per 12 gallons of water. Apply at spring bud. Repeat in late fall dormant period. *Spur Blight* - Apply 10 to 12 gallons per 100 gallons of water. Apply in delayed dormant stage when buds begin to break and show silver.

ALFALFA, RED CLOVER: *Powdery Mildew* - Apply 1 gallon per 50 to 100 gallons of water per acre. Apply at early bud stage or at first sign of disease.

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 Chemical Company (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 user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability, and remedies.