



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

MAR 30 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Rebecca A. Clemmer
ELF ATOCHEM NORTH AMERICA INC.
AGRICHEMICALS DIVISION
2000 MARKET ST., 21ST FLOOR
PHILADELPHIA, PA 19103

Subject: Label Amendment Submission of 09/22/93 in Response to PR Notice 93-7
EPA Reg. No. 4581-373
MICROTHIOL SPECIAL

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

29-6

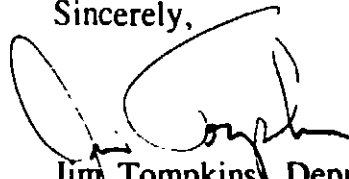
Submit the final printed labeling via the U.S. Postal Service to:

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

elf atochem

ATO

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR 30 1994

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

4581-373

MICROTHIOL® SPECIAL

MICRONIZED WETTABLE SULFUR

ACTIVE INGREDIENT:

Sulfur	80.0%
INERT INGREDIENTS	20.0%

TOTAL	100.0%
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EPA Reg. No. 4581-373

EPA Est. No. 44420-FR-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN, wash with soap and water.

IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF SWALLOWED, give one or two glasses of water and induce vomiting by sticking finger down throat. Never give anything by mouth to an unconscious person.

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, 40CFR 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.

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

OBSERVE SPECIFIC INSTRUCTIONS FOR USE IN CALIFORNIA.

APPLICATION INSTRUCTIONS

Apply through any type of handheld, knapsack, mechanical or pneumatic spraying equipment.

MIXING: Pour the required amount of MICROTHIOL SPECIAL into the indicated amount of water while stirring. MICROTHIOL SPECIAL disperses instantly.

Dilute Application:

Field: Specified rate in 20 to 60 gallons of water per acre.

Orchard: Specified rate in 100 to 800 gallons of water per acre.

Concentrated Application:

Field: Specified rate in 5 to 10 gallons of water per acre.

Orchard: Specified rate in 20 to 100 gallons of water per acre.

Aerial Application:

Field: Specified rate in 3 to 20 gallons of water per acre.

Orchard: Specified rate in 10 to 20 gallons of water per acre.

COMPATIBILITY

MICROTHIOL SPECIAL is completely compatible with Bordeaux mixture, copper fungicides, liquid fertilizers and all organic fungicides, insecticides, acaricides and herbicides.

USE INSTRUCTIONS

Some crops may be damaged by sulfur under certain climatic conditions. Do not use on any crop unless sulfur has been shown to be safe in your locality. Do not allow spray to drift onto sulfur-sensitive crops such as apricots, cranberries, spinach and Anjou pears. Sulfur may burn foliage when temperature is high. Do not apply at such times. Do not use within two weeks of an oil spray treatment. For citrus, do not apply within 21 days of an oil spray. When growing crops for processing, consult the processor before applying sulfur.

NOTE: The application rates specified for each crop are the maximum that should be applied. These amounts may be reduced if experience or local practice indicate that lesser amounts may be effective. Consult State Agriculture Experiment Station or State Extension Service specialist for rates recommended in your local area.

VEGETABLE CROPS

Crop	Pest	Rate Lbs/A	Directions
Beans	Leaf Spot Powdery Mildew	7	Apply at early leaf stage and repeat at 14-day intervals as necessary.
Broccoli, Brussels sprouts, Cabbage, Cauliflower	Powdery Mildew Red Spider Mite	3-10	Begin in early leaf stage. Repeat application every 10 to 14 days as necessary. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.
Carrots	Powdery Mildew Petrobia Mite	3-10	Apply at early leaf stage and repeat application every 14 days as needed.
Cucumbers	Powdery Mildew	2-4	Apply when disease first appears and repeat as necessary. Do not apply more than 2 pounds MICROTHIOL per acre per application during periods of high temperatures.
Greens: Collards, Kale, Mustard	Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat application every 14 days as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.
Lettuce (Head and Leaf) NOT FOR USE IN CALIFORNIA	Powdery Mildew Rust Red Spider Mite	5-6	Apply at early leaf stage and repeat every 14 days as needed. Thorough coverage is required.
Melons	Powdery Mildew	10-15	Apply when disease first appears and repeat as needed. Sulfur can injure plants, especially when temperature reaches 95° F. Do not use on sulfur sensitive varieties.
Onions, Garlic	Powdery Mildew Petrobia Mite	3-10	Apply when disease first appears and repeat as needed. California Only: Apply 6 lbs per acre when disease first appears and repeat as necessary.
Potatoes	Powdery Mildew Red Spider Mite	5	Apply at early leaf stage and repeat every 14 days as needed.
Peppers	Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat every 14 days as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.

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VEGETABLE CROPS

Crop	Pest	Rate Lbs/A	Directions
Rutabagas	Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat every 14 days as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.
Squash	Powdery Mildew	10-15	See use directions for melons, above.
Tomatoes	Russet Mite Powdery Mildew	5-10	Begin application when symptoms first appear. Thorough coverage is required.
Turnips	Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat every 14 days as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.

FRUIT AND NUT CROPS

Crop	Pest	Rate Lbs/A	Directions
Almonds	Brown Rot Leaf Spot Silver Mite Flat Mite Red Spider Mite	10-20	Apply at bloom or early petal fall. Repeat as necessary, usually 10 to 14 days or after a period of wet weather.
Apples, Pears	Powdery Mildew Scab Blister Mite Red Spider Mite	10-20	Apply at prebloom and petal fall. Apply with cover sprays throughout the season. Do not apply to Anjou pears.
Avocados	Brown Mite	10-20	Apply as needed.
Citrus	Flat Mite Silver Mite Rust Mite Broad Mite* Bud Mite* Red Spider Mite Six-spotted Mite* Thrips* Yuma Spider Mite*	10-20	Do not apply in any spray containing oil when temperatures reach 85-90° F or above.
Grapes	Powdery Mildew Bud Mite Blister Mite Red Spider Mite	5-10	Apply throughout the season at 14-day intervals as needed. Note: Use with caution on concord or labrusca type grapes as injury can occur after bloom.
Mangos	Powdery Mildew	10-30	Begin application before bloom. Repeat at bloom, after fruit set, and 3 weeks later or as necessary.
Stone Fruits: Peaches, Plums, Cherries, Nectarines, Prunes	Powdery Mildew Brown Rot Leaf Spot Silver Mite Flat Mite Red Spider Mite	10-20	Follow directions for almonds, above. For Brown Rot of fruit, apply when fruit starts to ripen. Do not apply to apricots.
Walnuts, Pecans,* Macadamias*	Pacific Mite Almond Mite Two spotted Mite Red Spider Mite Broad Mite*	10-30	Apply throughout the season as needed. Note: Some varieties of walnuts and pecans are sensitive to sulfur sprays under certain conditions. Do not apply unless varieties are known to be tolerant of sulfur. California Only: Apply a maximum of 20 lbs per acre as required.

* NOT FOR THIS USE IN CALIFORNIA.

FIELD CROPS

Crop	Pest	Rate Lbs/A	Directions
Alfalfa NOT FOR USE IN CALIFORNIA	Atlantic Mite Red Spider Mite	8-10	Apply throughout the season as necessary.
Cereals: Corn, Wheat, Barley, Oats, Rye, Sorghum	Red Spider Mite Two Spotted Mite Pacific Mite Atlantic Mite	8-10	Apply when symptoms first appear and repeat applications as necessary.
Cotton	Atlantic Mite* Red Spider Mite	5-10	Apply throughout the season as necessary. California Only: Apply a maximum of 5 lbs per acre as necessary. Not for use on Atlantic mite.
Peanuts	Powdery Mildew Leaf Spot Red Spider Mite Rust*	5-8	Apply at early leaf stage and repeat applications as necessary. California Only: Apply a maximum of 5 lbs per acre at early leaf stage and repeat every 14 days as necessary.
Soybeans	Leaf Spot Powdery Mildew	10-15	Apply at early leaf stage and repeat at 14-day intervals as necessary. California Only: Apply a maximum of 12.5 lbs per acre at early leaf stage and repeat every 14 days as necessary.
Sugar Beets	Powdery Mildew Red Spider Mite	5-10	Apply as soon as symptoms appear and repeat every 2 to 3 weeks as necessary.

* NOT FOR THIS USE IN CALIFORNIA

SMALL FRUITS AND BERRIES

Crop	Pest	Rate Lbs/A	Directions
Blackberries, Boyenberries, Dewberries, Loganberries, Blueberries, Gooseberries, Huckleberries, Currants	Powdery Mildew	6-15	Begin application before blossoms open and continue at 10-day intervals as necessary.
Raspberries	Powdery Mildew	6-15	Apply each week from first bloom to fruit set. Repeat as the weather requires.
Strawberries	Powdery Mildew Red Spider Mite	5-10	Begin application at early leaf stage and repeat as necessary. Do not use on sulfur-sensitive varieties.

MISCELLANEOUS CROPS

Crop	Pest	Rate Lbs/A	Directions
Spearmint, Peppermint NOT FOR USE IN CALIFORNIA	Powdery Mildew	4-6	Apply when mint is 5-6" tall or when disease appears. Repeat twice, at 30-day intervals. Do not apply within 30 days of harvest.
Ornamentals, Roses	Powdery Mildew Leaf Spot	3-10 by ground or 3-20 by air	Apply to ensure complete plant coverage. Begin when disease first appears and repeat at 5-10 day intervals. California Only: Apply a maximum of 5.6 lbs in 100 gals. of water when disease first appears and repeat at 10 day intervals as required.

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

May cause irritation of eyes. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and 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.

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

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

STORAGE INSTRUCTIONS: Store in a closed package in a cool, dry place. Do not store near flammable materials. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling sweep up spillage and dispose of in accordance with the Pesticide Disposal Instructions below.

PESTICIDE DISPOSAL INSTRUCTIONS: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL INSTRUCTIONS: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then dispose of bag in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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