

FEB 18 1992

Ms. Rebecca A. Clemenner
Registration Specialist
Agrichemicals Division
Atochem North America, Inc.
3 Parkway, Room 619
Philadelphia, PA 19102

Dear Ms. Clemenner:

Subject: MICROTHIOL SPECIAL
EPA Reg. No. 4581-373
Application for Pesticide Amendment of 08/12/91.

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

Submit five (5) copies of final printed labeling to the Agency.

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

Sincerely yours,

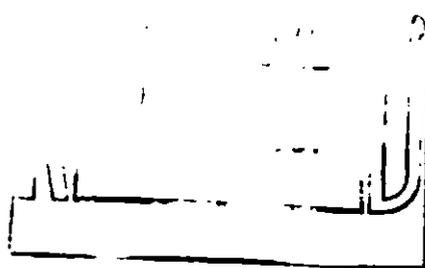
Susan T. Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

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PROPOSED LABEL



MICROTHIOL[®] SPECIAL

Micronized Wettable Sulfur

ACTIVE INGREDIENT:	
Sulfur	80.0%
INERT INGREDIENTS	20.0%
TOTAL	100.0%

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.

EPA Reg. No. 4581-373

EPA Est. No. 44420-FR-1

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NET CONTENTS 30 LBS/13.6 KG

Sold by
ATOCHEM NORTH AMERICA, INC.—AGCHEM DIVISION

with CO...
Philadelphia, PA 19102

FILE NO. 1002

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OK-AD

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its label.
Do not apply this product through any type of irrigator system.
OBSERVE SPECIFIC INSTRUCTIONS FOR USE IN CALIFORNIA.

REENTRY STATEMENT

Do not enter treated areas without protective clothing within 24 hours after application. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long legged trousers, shoes and socks. Because certain states require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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, such warnings shall be given in a language customarily understood by the workers. Oral warnings must be given when there is reason to believe that written warnings cannot be understood by the workers. Written warnings must include the following information: "CAUTION. Area treated with MICROTHIOL SPECIAL on (date of application). Do not enter without protective clothing within 24 hours after application. Protective clothing means, at least, a hat or other head covering, a long-sleeved shirt and long legged trousers, shoes and socks."

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 climactic 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.

Sulfur may burn foliage when temperature is high. Do not apply at such times. Do not use sulfur with oil or within two weeks of an oil application unless in a dormant, delayed dormant, or postharvest application. 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.

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CROP	PEST	RATE LBS/A	DIRECTIONS
Beets	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 Petroleum 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 IMCROTHIOZ 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.
Lettuces (Head and Leaf) NOT FOR USE IN CALIFORNIA	Powdery Mildew Rust Red Spider Mite	5-8	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 85° F. Do not use on sulfur sensitive varieties.
Onions, Garlic	Powdery Mildew Petroleum Mite	3-10	Apply when disease first appears and repeat as needed. California Only: Apply 8 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.
Potatoes	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	Rust 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.

*NOT FOR THIS USE IN CALIFORNIA

FRUIT AND NUT CROPS

CROP	PEST	RATE LBS/A	DIRECTIONS
Almonds	Brown Rot Leaf Spot Silver Mite Rat 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 10-20 Apply at prebloom and petal fall.
Scab Apply with cover sprays throughout the season. Do not apply to sensitive varieties of pears except in the dormant or delayed dormant stage.
Blister Mite
Red Spider Mite
Pear Psylla[®]

Avocadoes	Brown Mite	10-20	Apply as needed.
Citrus	Rat Mite Silver Mite Rust Mite Rust Mite Broad Mite* Red Mite* Red Spider Mite Star-spotted Mite* Thrips* Yema Spider Mite*	10-15	Apply as needed. California only: Apply 10-20 lbs per acre. Citrus Rust Mite [®]
Grapes	Powdery Mildew Rat Mite Silver 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.
Mangoes	Powdery Mildew	10-20	Begin application before bloom. Repeat at bloom, after fruit set, and 3 weeks later or as necessary.
Stone Fruits: Peaches, Plums, Cherries, Nectarines, Pruins	Powdery Mildew Brown Rot Leaf Spot Silver Mite Rat 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, Macadamias*	Pink Mite Almond Mite Two-spotted Mite Red Spider Mite Broad Mite*	10-20	Apply throughout the season as needed. Note: Some varieties of walnuts 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.

Pecans
NOT FOR USE IN CALIFORNIA
Powdery Mildew 5-10 Apply throughout the season, as needed. Note: some varieties of pecans are sensitive to sulfur sprays under certain conditions. Do not apply unless varieties are known to be tolerant of sulfur.
Sooty Mold
Two-Spotted Mite
Red Spider Mite

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FIELD CROPS*

CROP	PEST	RATE LBS/A	DIRECTIONS
Artichokes 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 Nemat*	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.

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SMALL FRUITS AND BERRIES

CROP	PEST	RATE LBS/A	DIRECTIONS
Blackberries, Boyseberries, Dewberries, Loganberries, Rhubarb, 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
Pepper NOT FOR USE IN CALIFORNIA	Powdery Mildew	4-8	Apply when plant is 5-6" tall or when disease appears. Repeat twice, at 30-day intervals. Do not apply within 30 days of harvest.
Onion sets, Rue	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. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

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 contaminate water by disposal of equipment washwater. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas.

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

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. ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL 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 CUSTOMER'S LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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