

PM 21 4581-373 1.47



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 4581-373	2. EPA Product Manager C. Welch	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) MICROTHIDL <sup>®</sup> Special	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Elf Atochem North America, Inc. Agrichemicals Division, 21st Floor 2000 Market Street, Philadelphia, PA 19103-3222 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
 Notification of: *addition of high temperature warning statement*  
 This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 C.F.R. 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rebecca A. Clemmer	Title Mgr. Product Registration	Telephone No. (Include Area Code)
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		C. Date Application Received  (Stamped)
2. Signature Rebecca A. Clemmer	3. Title Mgr. Product Registration	
4. Typed Name Rebecca A. Clemmer	5. Date 9-5-95	

elf atochem



2045  
WPS

# MICROTHIOL<sup>®</sup> 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

NET CONTENTS \_\_\_\_\_

Sold By

**ELF ATOCHEM NORTH AMERICA, INC.  
AGCHEM DIVISION**

2000 Market Street, Philadelphia, PA 19103

**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.

Do not apply this product through any type of irrigation system.  
**OBSERVE SPECIFIC INSTRUCTIONS FOR USE IN CALIFORNIA.**

**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

**APPLICATION INSTRUCTIONS**

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

**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 or as needed.
Broccoli, Brussels sprouts, Cabbage, Cauliflower	Powdery Mildew Red Spider Mite	3-10	Begin in early leaf stage. Repeat every 10 to 14 days or as needed.
Carrots	Powdery Mildew Petrobia Mite	3-10	Apply at early leaf stage and repeat every 14 days or 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 every 14 days or as needed.
Lettuce (Head and Leaf)	Powdery Mildew Rust Red Spider Mite	5-6	Apply at early leaf stage and repeat every 14 days or as needed. Thorough coverage is required.
Onions, Garlic, Dry Onions, Dry Shallots	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 or as needed.
Peppers	Powdery Mildew Broad Mite* Red Spider Mite	3-10	Apply at early leaf stage and repeat every 14 days or as needed.
Rutabagas	Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat every 14 days or as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days or as needed.
Squash	Powdery Mildew	5-10	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.
Tomatoes	Two Spotted Mite* 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 or as needed. California Only: Apply 5 lbs per acre at early leaf stage and repeat every 14 days or as needed.

\*NOT FOR THIS USE IN CALIFORNIA

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.

Concentrate 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, such as when temperature is high. If Atochem does not recommend application if temperature will exceed 90° F within the three days following spraying, due to the risk of crop injury. Crops grown in greenhouses may be much more sensitive to sulfur injury, so the lowest labeled rate (or below labeled rates) should be tried initially. 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 d'Anjou pears.

Do not use within two weeks of an oil spray treatment, except for Dormant, Delayed Dormant, or Postharvest applications with a suitable oil. For citrus, do not apply within 21 days of an oil spray. Spreader/stickers are not required for use with MICROTHIOL. If spreader/stickers are used with MICROTHIOL, foliar injury may be enhanced under high temperatures. 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.

307

NEW

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 Bister Mite Two Spotted Mite* Red Spider Mite	10-20	Apply at prebloom and petal fall. Apply with cover sprays throughout the season. Do not apply to d'Anjou pears.
Apples, Pears (Dormant, Delayed Dormant, or Postharvest)	Pear Psylla Bister Mite Two Spotted Mite* Red Spider Mite	10-20	Apply with a suitable spray oil postharvest and during the dormant periods of bud development. Do not apply to sensitive varieties of pears except at these stages.
Avocados	Brown Mite	10-20	Apply as needed.
Citrus	Broad Mite* Citrus Rust Mite* Flat Mite Silver Mite Bud Mite* Red Spider Mite Six-spotted Mite* Thrips* Yuma Spider Mite*	10-15	Apply as needed. Do not apply within 21 days of an oil spray.
Figs	Mites, including Fig Mite, Eriophyid Mites	5	Apply at a minimum of 100 gallons per acre. Begin applications in April, and continue on a 3-4 week schedule through June.
Grapes	Powdery Mildew Bud Mite Bister Mite Red Spider Mite Phomopsis	3-10	Apply throughout the season at 7 to 14-day intervals or as needed. Thorough coverage is required. 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.
Melons	Powdery Mildew	5-10	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.
Pecans NOT FOR USE IN CALIFORNIA	Powdery Mildew Sooty Mold Two-Spotted Mite Red Spider Mite Eriophyid Mites (including Pecan and Hickory)	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.
Pistachios	Mites	10-20	Begin applications in June-July. Make additional applications as necessary. When temperatures exceed 95°F, lower rates and more frequent applications are advised in order to avoid crop injury.
Pomegranates	Mites	3-10	Begin applications in May or June. Make additional applications on a 3-4 week schedule, or as necessary. Use higher rates if past mite damage has been high. If temperatures exceed 95°F, lower rates and more frequent applications are advised in order to avoid crop injury.
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, Macadamias*	Pacific 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.

\*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	3-10	Apply when symptoms first appear and repeat applications as necessary.
Cotton	Atlantic Mite* Two Spotted Mite* Red Spider Mite	5-10	Apply throughout the season as necessary. California Only: Apply a maximum of 5 lbs per acre as necessary.
Peanuts	Powdery Mildew Leaf Spot Two Spotted Mite Red Spider Mite Rust*	5-8	Apply at early leaf stage and repeat applications as necessary.
Soybeans	Leaf Spot Powdery Mildew	10-15	Apply at early leaf stage and repeat at 14 day intervals or as needed.
Sugar Beets	Powdery Mildew Red Spider Mite	5-10	Apply as soon as symptoms appear and repeat every 2 to 3 weeks or as needed.

\*NOT FOR THIS USE IN CALIFORNIA

5075

**SMALL FRUITS AND BERRIES**

CROP	PEST	RATE LBS/A	DIRECTIONS
Blackberries, Boysenberries, Dewberries, Loganberries, Blueberries, Gooseberries, Huckleberries, Currants	Powdery Mildew	6-15	Begin application before blossoms open and continue at 10 day intervals or as needed.
Raspberries	Powdery Mildew	6-15	Apply each week from first bloom to fruit set. Repeat as the weather requires.
Strawberries	Powdery Mildew Two Spotted Mite* Red Spider Mite	5-10	Begin application at early leaf stage and repeat as needed. Do not use on sulfur-sensitive varieties.

\*NOT FOR THIS USE IN CALIFORNIA

**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.
Hops NOT FOR USE IN CALIFORNIA	Red Spider Mite	2-6	Begin applications at early leaf stage, and repeat as needed.
Ornamentals, Roses	Powdery Mildew Leaf Spot Two Spotted Mite*	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.

\*NOT FOR THIS USE IN CALIFORNIA

**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**

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.

Elf Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Elf Atochem.