

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

2010

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Timothy M. Formella Senior Registration Manager United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Microthiol Disperss EPA Reg. No. 70506-187 Your amendment dated July 24, 2009 EPA Decision Number 421611

Dear Mr. Formella:

The revised amended label referred to above, submitted October 23, 2009 in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

- 1. On page 1 decrease the size of the OMRI graphic to no larger than the size of the signal word "CAUTION".
- 2. On page 2 remove the parenthesis from the subheading HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
- 3. On page 3 move the sentence "Do not apply when wind speed favors drift beyond the area intended for treatment." to page 3 under the subheading **APPLICATION INSTRUCTIONS**.
- 4. On page 3 in the first line below the header **USE INSTRUCTIONS** change "Cerexagri" to "United Phosphorus"

You must submit documentation that verifies that this product is currently listed by the Organic Materials Review Institute (OMRI) for use in production of organic food and fiber annually when the listing with OMRI is renewed.

A copy of the completed EPA National Organic Program labeling Request Checklist dated 12/3/09 is enclosed for your records. One copy of the label stamped "Accepted with comments" is enclosed for your records. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

1. Waller

Mary L. Waller Product Manager (21) Fungicide Branch Registration Division (7505P)

Enclosure

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		GROUP	M2 FUN	GICIDE	]
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Have the product container for treatment. EPA Reg. No. 70506-187	or label with you when calling		ntrol center or doc		
Net Contents:			Batch/Lot #		
ACCEPYRD with COMMENTS In EPA Letter Dated	United Phosphorus, 630 Freedom Business Cent King of Prussia, PA	er, Suite 40	2		
FEB 2 2010 Under the Federal Insecticid Fundicide, and Rodenticide A as amended, for the pesticid registered under EFA Reg. No	et		Р	age 1	

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

# PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

long-sleeved shirt and long pants

• chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride

shoes plus socks

• personal protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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.

# **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 when wind speed favors drift beyond the area intended for treatment.

# AGRICULTURAL USE REQUIREMENTS

Page 2

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 shoes plus socks
- chemical resistant gloves made of any waterproof material protective eyewear

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

For non-agricultural turf and grass uses (golf courses, home lawns, and landscapes around buildings) do not enter or allow entry into treated area until sprays have dried.

#### **APPLICATION INSTRUCTIONS**

Apply through any type of handheld, knapsack, mechanical or pneumatic spraying equipment. MIXING: Pour the required amount of MICROTHIOL DISPERSS into the indicated amount of water while stirring. MICROTHIOL DISPERSS 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.

## **SPRAY COVERAGE**

Foliage must be completely covered on both the upper and lower leaf surfaces for effective control. Dense canopies can limit complete coverage. Adequate spray volume for thorough coverage is essential.

# COMPATIBILITY

MICROTHIOL DISPERSS is compatible with most Bordeaux mixtures, copper fungicides, liquid fertilizers, 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. United Phosphorus 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 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 DISPERSS. If spreader/stickers are used with MICROTHIOL DISPERSS, 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 may be applied. These amounts may be reduced if experience or local practice indicates that lesser amounts may be effective. Consult State Agriculture Experiment Station or State Extension Service specialist for rates recommended in your local area.

## NUTRIENT USE

Microthiol Disperss applications will provide sulfur needed to meet a plant's nutrient requirements and should be considered for use in total nutrient applications. Microthiol Disperss can be used as a micronutrient supplement when applied on the foliage or soil to the crops listed on this label. Consult your State Agricultural Experiment Station or Extension Specialist for advice in selecting treatments that best fit local conditions.

Crop	Pest	Rate Lbs/A	Directions
Artichokes (all varieties)	Leaf Spot	10-20	Begin when disease first appears and repeat at 7- to 10-day intervals or as needed.
Asparagus	Mites Rust	10-30	Apply after cutting, irrigate and cultivate before applying. Repeat at 7- to 10-day intervals, or as needed, through fern growth season.
Beans, Peas	Leaf Spot Powdery	3 - 10	Apply at early leaf stage and repeat at 10- to 14-day intervals or as needed.

# **VEGETABLE CROPS**

Rate Directions Lbs/A 3-10 Begin in early leaf stage. Repeat every 10 to 14 Mildew Red days or as needed. Spider Mite Septoria Leaf Petrobia Mite 3-10 Apply at early leaf stage and repeat every 7 to 10 days or as needed.

Celery	Powdery Mildew Red Spider Mite Rust	4-6	Apply at early leaf stage and repeat every 10 to 14 days or as needed.
Cowpeas	Rust	2-9	Begin applications soon after seedlings emerge. Repeat at 7- to 10-day intervals as needed throughout the season.
Cucumbers	Powdery Mildew	2-4	Apply when disease first appears and repeat as necessary. Do not apply more than 2 pounds MICROTHIOL DISPERSS per acre per application during periods of high temperatures.
Eggplant	Powdery Mildew	4-6	Apply when first true leaves appear. Repeat at weekly intervals or as needed.
Endive Escarole Swiss Chard Salsify	Powdery Mildew Red Spider Mite Rust	4-6	Apply at early leaf stage and repeat every 10 to 14 days or as needed.
Greens: Collards, Kale, Mustard, Beet, Turnip	Powdery Mildew Red Spider Mite Rust Septoria Leaf Spot	3-10	Apply at early leaf stage and repeat every 14 days or as needed
Lettuce	Powdery	5-10	Apply at early leaf stage and repeat every 14 days

Crop

Broccoli,

Brussels

sprouts,

Kohlrabi

Carrots

Cabbage, Cauliflower

Pest

Mildew Red Spider Mite Rust

Powdery

Spot

Powdery

Mildew

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Crop	Pest	Rate Lbs/A	Directions
(Head and Leaf)	Mildew Red Spider Mite Rust		or as needed. Thorough coverage is required.
Melons	Powdery Mildew	5-10	Apply when disease first appears and repeat as needed. Sulfur can injure plants, especially when temperature reaches 90° F. Do not use on sulfur sensitive varieties.
Okra	Leaf Spot Mites Powdery Mildew	3-10	Apply at early leaf stage and repeat every 14 days or as needed.
Onions, Garlic, Dry Onions Dry Shallots	Petrobia Mite Powdery Mildew	3-10	Apply when disease and/or mites first appear and repeat as needed.
Potatoes Sweet Potatoes	Leaf Spot Powdery Mildew Red Spider Mite	5-10	Apply at early leaf stage and repeat every 10 to 14 days or as needed.
Peppers	Broad Mite Leaf Spot Powdery Mildew Red Spider Mite	3-10	Apply at early leaf stage and repeat every 10 to 14 days or as needed.
Spinach	Powdery Mildew Rust	4-6	For use on spinach to be processed only. Do not use on fresh spinach as sulfur has been shown to have phytotoxic effects on certain varieties of spinach. Spray on a small area first to test for phytotoxicity before making a full application. Apply when disease first appears and repeat at 7- to 10-day intervals or as needed.
Squash (including Pumpkins, Summer and Winter Squash)	Powdery Mildew	5-10	Apply when disease first appears and repeat as needed. Sulfur can injure plants, especially when temperature reaches 90° F. Do not use on sulfur sensitive varieties.

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Crop	Pest	Rate Lbs/A	Directions
Table Beets	Powdery Mildew Red Spider Mite	3-5	Apply at first indication of problem with or without other pesticides. Repeat as necessary.
Tomatoes	Powdery Mildew Russet Mite Two-Spotted Mite	5-20	Begin application when symptoms first appear and repeat at 7- to 10-day intervals or as needed. Thorough coverage is required. For Russet Mite apply 10 to 20 pounds per acre.
Turnips Parsnips Horseradish Radishes Rutabagas	Powdery Mildew Red Spider Mite Rust Septoria Leaf Spot	3-10	Apply at early leaf stage and repeat every 10 to 14 days or as needed.

# FRUIT AND NUT CROPS

Crop	Pest	Rate Lbs/A	Directions
Almonds	Brown Rot Flat Mite Leaf Spot Powdery Mildew Red Spider Mite Rust Silver Mite	10-20	Apply at dormant through harvest, alone or in tank-mixes with other fungicides/miticides for disease protection, mite suppression, and resistance management. Repeat applications at 7- to 10-day intervals or as needed.
Apples, Pears	Powdery Mildew Scab Blister Mite Red Spider Mite Silver Mite Two-Spotted Mite	10-20	Apply at prebloom and petal fall. Apply with cover sprays throughout the season. Do not apply to d'Anjou pears or sensitive apple varieties (i.e. Ontario or Cox Orange).
Apples,	Blister Mite	10-20	Apply with a suitable spray oil postharvest and

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Сгор	Pest	Rate Lbs/A	Directions
Pears (Dormant, Delayed Dormant or Postharvest)	Pear Psylla Red Spider Mite Two-Spotted Mite		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.
Bananas	Mites	10-30	Apply as needed.
Citrus	Broad Mite Bud Mite Citrus Rust Mite Flat Mite Red Spider Mite Silver Mite Six-spotted Mite Thrips Yuma Spider Mite	10-20	Apply as needed. Do not apply within 21 days of an oil spray.
Dates	Banks Grass Mite	20	Apply in sufficient water to provide thorough coverage of the date clusters. Begin applications as mites or mite webbing are first observed. Repeat applications every 14 days or as necessary, until dates are mature and are no longer subject to mite feeding injury.
Figs	Mites, including Eriophyid Mites, Fig Mite	5	Apply at a minimum of 100 gallons per acre. Begin applications in the spring, and continue on a 3-4 week schedule or as necessary.
Grapes	Powdery Mildew Phomopsis Blister Mite Bud Mite Red Spider Mite	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, Labrusca type, and other sulfur sensitive grape cultivars 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.

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Сгор	Pest	Rate Lbs/A	Directions
Olives	Olive Mites	10-30	Apply as needed.
Рарауа	Mites	10-30	Apply when mites first appear and repeat as necessary to maintain control. Do not apply in combination with emulsifiable pesticide formulations as foliar injury may occur. Do not apply to low vigor or moisture stressed plants. Do not apply prior to or during periods of excessively high temperatures, periods of low rainfall or within two weeks of an oil spray.
Pecans	Leaf Spot Powdery Mildew Sooty Mold Eriophyid Mites (including Hickory and Pecan) Flat Mite Red Spider Mite Silver Mite Two-Spotted Mite	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.
Pineapple	Mites	10-30	Apply as needed.
Pistachios	Mites	10-20	Begin applications in June-July. Make additional applications as necessary. When temperatures exceed 90° F, lower rates and more frequent applications are advised in order to avoid crop injury.
Pomegranate	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 90° F, lower rates and more frequent applications are advised in order to avoid crop injury.
Quince	Brown Rot Powdery Mildew Scab	10-30	Begin applications at early leaf stage and repeat as necessary. Do not use on sulfur sensitive varieties.

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Crop Pest Directions Rate Lbs/A Stone Fruit: 10-20 Brown Rot Apply at dormant through harvest, alone or in tank-mixes with other fungicides/miticides for Peaches, Flat Mite Plums, Leaf Spot disease protection, mite suppression, and Cherries, Powdery resistance management. Repeat applications at 7-Nectarines, Mildew to 10-day intervals or as needed. Prunes Red Spider For Brown Rot of fruit, apply when fruit starts to Mite ripen. Rust Do not apply to apricots. Silver Mite Walnuts, Almond Mite 10-20 Apply throughout the season as needed. Note: Macadamias Some varieties of walnuts are sensitive to sulfur Broad Mite European Red sprays under certain conditions. Do not apply Mite unless varieties are known to be tolerant of sulfur. Pacific Mite Red Spider Mite Two-Spotted

#### FIELD CROPS

Mite

Crop	Pest	Rate Lbs/A	Directions
Alfalfa Including: Seed Alfalfa	Atlantic Mite Pacific Mite Red Spider Mite Lygus (suppression)	12-25	Apply throughout the season as necessary.
Cereals: Corn, Wheat, Barley, Oats, Rye, Sorghum	Atlantic Mite Banks Grass Mite Pacific Mite Powdery Mildew Red Spider Mite Two- spotted mite	8-15	Apply when mites or symptoms first appear and repeat applications as necessary.
Clover	Mites Powdery	2-9	Apply as needed.

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Сгор	Pest	Rate Lbs/A	Directions
	Mildew		
Cool Season Forage Grasses (including; Timothy, Orchard Grass, Fescues, Sudan Grass, Bermuda Grass, Bluegrass, and Bromegrass)	Mites (including Banks Grass Mite)	5-10	<ul> <li>Apply at first sign of mites. Continue applications at 7-day intervals, or as needed, until mites are below economic levels. The addition of adjuvants (spreaders, surfactants, etc.) can increase the chance of crop injury, and is not recommended.</li> <li>For aerial applications: Use the specified rate in a minimum of 3 gallons of water per acre.</li> <li>For ground applications: Use the specified rate in a minimum of 20 gallons of water per acre.</li> </ul>
Cotton	Atlantic Mite Red Spider Mite Two-Spotted Mite	5-10	Apply throughout the season as necessary.
Flax	Powdery Mildew	2-9	Apply at first sign of disease. Repeat at 7- to 10- day intervals or as necessary.
Peanuts	Leaf Spot Powdery Mildew Red Spider Mite Rust Two-Spotted Mite	5-8	Apply at early leaf stage and repeat applications as necessary.
Soybeans	Leaf Spot Powdery Mildew Rust	10-15	Apply at early leaf stage and repeat at 7- to 14-day intervals or as needed.
Sugar Beets	Powdery Mildew Red Spider Mite	5-10	Apply as soon as symptoms appear and repeat every 7 to 14 days or as needed.
Sugarcane	Mites	8-15	Apply when mite pressure is imminent and repeat applications as necessary.

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Сгор	Pest	Rate Lbs/A	Directions
Blackberry, Boysenberry Dewberry, Loganberry, Blueberry, Gooseberry, Huckleberry , Currant	Powdery Mildew	6-15	Begin application before blossoms open and continue at 10-day intervals or as needed.
Raspberries	Powdery Mildew Red Berry Mite	6-15	Apply each week from first bloom to fruit set. Repeat as the weather requires.
Strawberries	Powdery Mildew Red Spider Mite Two-Spotted Mite	5-10	Begin application at early leaf stage and repeat as needed. Do not use on sulfur-sensitive varieties.

# SMALL FRUITS AND BERRIES

# **MISCELLANEOUS CROPS**

Сгор	Pest	Rate Lbs/A	Directions
Spearmint, Peppermint	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	Red Spider Mite	2-6	Begin applications at early leaf stage, and repeat as needed.
Ornamentals, Roses	Leaf Spot Powdery Mildew 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.

# **OTHER ORNAMENTALS**

For the ornamentals listed below apply 3 to 10 pounds in 100 gallons of water. Begin when disease first appears and repeat at 5 to 10 day intervals as needed.

For Control of Powdery Mildew on: Alder, Asters, Azalea, Buttonbush, Catalpa, Carnations, Chrysanthemum, Cosmos, Crepe Myrtle, Dahlia, Daisy, Delphinium, Dogwood, Euonymus, Gladiolus, Golden Fleece, Hibiscus, Honeysuckle, Horse chestnut, Hydrangea, Lady's Mantle, Ligustrum, Lilac, Linden, Matrimony vine, Phlox, Poplar, Rhododendron, Sage, Silver vine, Smilax, Spirea, Stag horn sumac, Sunflowers, Sweet Peas, Sycamore, Trumpet vine, Verbena, Violets, Willow, Witch hazel, and Zinnia.

For Control of Red Spider Mites on: Arborvitae, Carnation, Cedars, Chrysanthemums, Clematis, Hydrangea, Rose, Snapdragon, and Sweetpeas.

For Control of Rust on: Aster, Carnation, Chrysanthemum, Rose, and Snapdragon.

For Control of Leaf Spot on: Calendula, Cherry Laurels, Clematis, Columbine, English Ivy, Foxglove, Hollyhock, Hydrangea, Petunia, Phlox, Sage, Smilax, and Snapdragon.

For Control of Botrytis Blight on: Hydrangea.

Crop	Pest	Rate Lbs/A	Directions
Commercial Turf including (but not limited to) golf courses, sod farms, and grass grown for seed	Powdery Mildew Rust	3-10	Begin applications at the very first sign of disease, or as a preventative when conditions favor disease. These are explosive diseases and are very difficult to control once fully established. Repeat applications as needed. Tank mixing with systemic fungicides will improve control and help in a resistance management program with these fungicides.
Bentgrass, Bluegrass, Ryegrass and Fescue	Suppression of Fusarium Patch Suppression of Take-all in Bentgrass	10-55	Apply monthly from September through May. Apply prior to outbreak of disease and use higher rate when conditions favor disease and temperatures are below 80° F. Use lower rates when temperatures are greater than 80° F. May cause Poa Annua decline.

#### TURF AND GRASS

## DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS

## GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move,

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end tow, side (wheel) roll, traveler, big gun, solid set, hand move; or drip (mini-micro sprinklers, strip tubing, trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

PRECAUTION: Corrosion of aluminum and carbon/galvanized steel irrigation sprinkler systems may be experienced with the use of sulfur fungicides. If the user elects to apply this product through such systems, it is essential that all application equipment containing this product be thoroughly flushed with clean water after each day's use. Continue to operate system with clean water until all product has cleared the last sprinkler head.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect chemigation system to any public water system. Public water system means a system for the provision of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

MICROTHIOL DISPERSS may be applied in conjunction with chemically neutral liquid fertilizers.

### SYSTEM REQUIREMENTS

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed,

solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

# **APPLICATION INSTRUCTIONS**

Observe the requirements in the System Requirements section.

Apply MICROTHIOL DISPERSS only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off.

Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension.

Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.

Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well/pivot/injection unit to prevent spray being applied to this area.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

# **SPRAY PREPARATION:**

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of MICROTHIOL DISPERSS in a mix tank. Fill the tank with  $\frac{1}{2}$  or  $\frac{3}{4}$  the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of MICROTHIOL DISPERSS and then the remaining volume of water.

## **Sprinkler Irrigation- Notes:**

Observe all System Requirements and Application Instructions above.

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of MICROTHIOL DISPERSS into the irrigation water line so as to deliver the desired rate per acre. The suspension of MICROTHIOL DISPERSS should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing. When treatment with MICROTHIOL DISPERSS has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

# STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a closed package in a cool, dry, secure 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:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container.** Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

# EMERGENCY TELEPHONE NUMBERS:

CHEMTREC: (800) 424-9300

MEDICAL: (866) 673-6671 Rocky Mountain Poison Control Center

# IMPORTANT INFORMATION READ BEFORE USING PRODUCT

# CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE**: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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