

51036-328

06/14/2001

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 M St. S.W.  
Washington, D.C. 20460

EPA Reg. Number:

51036-328

Date of Issuance:

JUN 14 2001

## NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA as amended)

Term of Issuance:

Conditional

Name of Pesticide Product

Thiophanate Methyl 70W

Name and Address of Registrant (include ZIP Code)

Micro-Flo Company  
P.O. Box 772099  
Memphis, TN, 38117

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act

Registration in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you provide the following required information, make the listed label changes and comply with the specified conditions of registration:

1. Submit/cite all data required for the registration/reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Submit a corrosion characteristic study, OPPTS number 830.6320, by September 1, 2002.
3. Make the following label changes:
  - a. Revise the name of the active ingredient on the label's ACTIVE INGREDIENTS table to read: "dimethyl 4,4'-o-phenylenebis [3-thioallophanate]"
  - b. Add the phrase "EPA registration number 51036-328" to the label.
  - c. Add the sentence "Have the product container or label with you when calling a poison control center or doctor or going for treatment." at the end of the First Aid section.
4. Submit one copy of the revised final printed label for our records before you release your product for shipment.

Signature of Approving Official

*Mary L. Waller*  
Mary L. Waller, Product Manager 21

Date:

6/14/01

5. Submit the following certification within one year of the date of registration, and on an annual basis, thereafter, prior to the anniversary of the date of registration until March 2, 2005.
- a. This product shall be produced, as that term is defined by FIFRA § 2(w), in establishments that are registered with the United States Environmental Protection Agency (EPA).
  - b. For a period of five years to end on March 2, 2005, on or before March 1st of each year, the Chief Executive Officer (CEO) of Micro Flo, after making reasonable inquiry, shall provide the Product Manager 21 with an affidavit certifying, with respect to the preceding calendar year, that: (1) the source of the active ingredient used in EPA registration Number 51036-328 is the approved source listed on the Confidential Statement of formula (CSF); (2) Micro-Flo has not imported technical grade pesticide products for formulation into EPA Registration Number 51036-328; and (3) EPA Registration Number 51036-328 offered for sale in the United States was formulated from the technical grade pesticide product specified in the CSF. The affidavit shall also note any exceptions to the foregoing, and, to the extent not previously disclosed to the Agency, shall describe the facts and circumstances of each such exception. The affidavit must also contain the following certification statement: " I understand that it is a violation of 18 U.S.C. §1001 to knowingly and willfully make any materially false statement or representation to EPA. I further understand that Micro Flo may be subject to enforcement actions based on the statements in this affidavit." Any portion of the affidavit that is claimed as CBI should be clearly marked as such.
  - c. Until January 1, 2002, Micro Flo shall submit an application for amendment for any change in the source of active ingredient for EPA Registration Number 51036-328, and that amendment must be approved by the Agency both prior to changing sources and prior to the arrival of any shipment of such source into the United States; Micro Flo shall not change the source of the active ingredient by notification. The foregoing applies regardless of whether the change is to an unregistered or registered source of active ingredient. From January 1, 2002, through December 31, 2005, Micro Flo may change to a registered source of active ingredient by notification consistent with Agency policy and regulations provided that Micro Flo sends a letter to the Product Manager 21 for EPA Registration Number 51036-328 with the notification attached.

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6. If Micro Flo fails to satisfy any condition of registration, the registration will be subject to cancellation in accordance with FIFRA Section 6(e).

Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions, contact Lisa Jones of my staff at (703) 308-9424 or at [jones.lisa@epa.gov](mailto:jones.lisa@epa.gov)

Sincerely yours,



Product Manager (21)  
Fungicide Branch  
Registration Division (7505C)

Enclosure: Stamped copy of label

Editor's note: Draft label in response to Agency letter of 11/9/00

# THIOPHANATE METHYL 70W

## FUNGICIDE

### ACTIVE INGREDIENT:

Thiophanate-methyl (dimethyl[1,2-phenylene)-bis(iminocarbonothioyl)]bis(carbamate)]\*

70%  
INERT INGREDIENTS: 30%  
TOTAL 100%

\*Also known as dimethyl 4,4'-o-phenylenebis(thioallophanate)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
JUN 14 2001

KEEP OUT OF REACH OF CHILDREN

### CAUTION

### FIRST AID

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No. 51036-328

### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

See back panel for Precautionary Statements.

EPA Reg. No. 51036-GEI

EPA Est. No. 51036-GA-002

NET CONTENTS: 5 lbs.

Manufactured By:  
MICRO FLO COMPANY  
P.O. BOX 772099  
MEMPHIS, TN 38117

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

## CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust vapor or spray mist.

## EMERGENCY NUMBERS:

- Transportation or spill, call CHEMTREC 800-424-9300.
- Human health, call Poison Control Center at 800-900-4044.
- Animal health, call ASPCA at 800-345-4735.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

## PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. 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:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into 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.

## 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 12 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:

1. Coveralls
2. Waterproof gloves
3. Shoes plus socks

#### STORAGE AND DISPOSAL

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

**STORAGE INSTRUCTIONS:** Store in the original container in a dry area. 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 listed below.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL** following commercial use: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and Local authorities, by burning. If the bag is disposed of by burning, stay out of smoke.

## GENERAL INFORMATION

Apply THIOPHANATE METHYL 70W with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of THIOPHANATE METHYL 70W to partially filled tank agitated by mechanical or hydraulic means, and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Micro Flo does not recommend tank mixes with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules.

Use the LBS/ACRE rate for concentrate sprays (less than 400 gallons on apples, less than 300 gallons on stonefruit). Use the LBS/100 GAL rate for dilute ground applications. For aerial applications, use a minimum of 3 gallons/A for row crops, and a minimum of 10 gallons/A for tree crops. Higher spray volume will generally result in better coverage and better disease control.

Chemigation instructions follow. Do not apply through any irrigation system unless these instructions are followed.

DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS  
(NOT FOR THIS USE IN CALIFORNIA)

## GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, and tow, side (wheel) roll, traveler, big gun, solid set, or hand move, or drip (mini-micro sprinklers, strip tubing, trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

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.

## 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, which 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 above.

Apply THIOPHANATE METHYL 70W 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.

THIOPHANATE METHYL 70W may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

#### 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 THIOPHANATE METHYL 70W in a mix tank. Fill the tank with 2 or 4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of THIOPHANATE METHYL 70W 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 THIOPHANATE METHYL 70W into the irrigation water line so as to deliver the desired rate per acre. The suspension of THIOPHANATE METHYL 70W 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 THIOPHANATE METHYL 70W 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.

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# Drip (Mini-Micro Sprinklers, Strip Tubing, Trickle) Irrigation-Notes

Observe all System Requirements and Application Instructions above.

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
Almonds	Brown Rot Blossom Blight (Monilinia sp.) Scab (Cladosporium sp)	1-2		Apply at pink bud and petal fall.  Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non- benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
Apples (pre- harvest)	Apple Scab (Venturia sp.) Flyspeck (Zygophiala sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Gloeodes sp.) Black Rot (Botryosphaeria sp.) Brooks Fruit Rot (Mycosphaerella sp.)	1- 1½	1/4- 3/8	Apply at 5 to 10 day intervals from green tip through petal fall; continue at 7 to 14 day intervals in cover sprays. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non- benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
Beans	Gray Mold (Botrytis sp.) White Mold (Sclerotinia sp.) Anthracnose	1 ½ - 2 or 1-1 ½		Apply once at 50% to 70% of full bloom. Or Apply twice with the first application at 10% to 30% of full bloom and a second application at 4 to 7 days later or at peak bloom. Do not apply to snap or dry beans within 14 days of harvest, or to lima beans within 28 days of harvest.

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CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
Cucurbits (Cucumber, melons, pumpkins, summer and winter squash)	Anthrachnose (Colletotrichum sp.) Gummy Stem Blight (Didymella sp.) Powdery Mildew (Erysiphe sp.) Target Spot (Corynespora sp.)	$\frac{1}{4}$ - $\frac{1}{2}$ for ground applica- tions OR $\frac{1}{2}$ for aerial applica- tions		Begin applications when plants begin to run or when disease first appears, and repeat at 7 to 14 day intervals or as needed. For Target Spot, use at 7 day intervals as needed.
California Use only for Powdery Mildew control.	Belly Rots (Rhizoctonia/ Fusarium sp.)	1/2		For Belly Rots, apply in sufficient volume to allow runoff to the soil. Will not control Pythium sp.
Onions (In Furrow)	White Rot (Scierotium sp.)	1/3-1/2 lb/1000 ft. of row (12 inch row spacing OR 12-16 lbs. broad- cast		Apply THIOPHANATE METHYL 70W by spraying directly into the open furrow at the time of planting seed, sets or bulbs. Not for this use through any type of irrigation system.
Peanuts	Leaf Spot (Cercospora spp.) Rust (Puccinia) Limb Rot (Rhizoctonia) Ascochyta Web Biotch	1/2		Begin applications 35 days after planting or when disease first appears and repeat at 14 to 21 day intervals as needed. Use the 14 day interval under severe disease pressure. Pre-harvest interval: 14 days. THIOPHANATE METHYL 70W should not be used alone. Use only in combination with another non- benzimidazole fungicide such as PENNCOZEB® 75DF (mancozeb) at 1 $\frac{1}{2}$ lb per acre.
Pecans	Brown Spot (Cercospora sp.) Downy Spot (Mycosphaerella sp.) Liver Spot (Gnomonia sp.) Powdery Mildew (Microsphaera sp) Scab	$\frac{1}{2}$ - 1		Use the higher rate for trees over 30 feet tall and for aerial applications in Arkansas, Georgia, Louisiana, Mississippi, Oklahoma, and Texas. Begin applications when first leaves are showing and repeat at 3 to 4 week intervals until shuck split. Do not apply after shuck split.

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CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
	(Fusicladium sp.) Stem End Blight (Botryosphaeria sp.) Zonate Leaf Spot (Cristulariella sp.)			
Soybeans	Anthracnose (Colletotrichum sp.) Brown Spot (Septoria sp.) Frogeye Leaf Spot (Cercospora sp.) Pod and Stem (Diaporthe sp. and the imperfect stage, Phomopsis sp.) Purple Seed Stain (Cercospora sp.)	2 - 1		Apply from full bloom to when pods are 1/8" to 1/4" in length. Make a second application later than 14 days after pods average 1/4" in length or when beans form in the pod. Use the high rate under severe disease pressure. FOR SEED BEANS ONLY-For seed quality make a single application at the high rate when beans form in the pod. Do not make more than 2 applications per year. Do not graze or feed treated vines or hay to livestock.
	Sclerotinia	4-1		Make one application at early bloom (R-1 to R-2 stage) followed by a second application 7-14 days later if conditions are favorable for continued disease pressure. Use a minimum of 5 gallons by air. Do not make more than 2 applications per year. Do not graze or feed treated vines to livestock.
	Aerial Blight (suppression)	1		Make initial application when disease threatens and repeat 14- 21 days later if needed. Do not make more than 2 applications per year. Do not graze or feed treated vines to livestock.
Stone Fruits- Apricots	Brown Rot Blossom Blight (Monilinia sp.) Fruit Brown Rot (Monilinia sp)	1 1/2	1/2	Apply at early bloom (red bud). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays, starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
				pre-harvest sprays. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
Cherries	Brown Rot Blossom Blight (Monilinia sp.) Fruit Brown Rot (Monilinia sp.)	1 ½	½	Apply at early bloom (early popcorn). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10-14 day intervals between full bloom and final pre-harvest sprays. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
	Cherry Leaf Spot (Coccomyces sp.)	1 1/8 - 1 ½	3/8 - ½	Apply at petal fall or before, when leaves first unfold, and at first, second and third cover at 10 to 14 day intervals and one spray 14 to 21 days after harvest. Pre-harvest interval: 1 day See above for Resistance Management guidance.
	Powdery Mildew Podosphaera sp.) and (Sphaerotheca sp.)	1 ½  PLUS  1 1/8 - 1 ½	½  PLUS  3/8 - 1/2	Apply at early bloom (early popcorn). Make a second application at full bloom. PLUS Apply at shuck fall and first cover. Pre-harvest interval: 1 day. See above for Resistance Management guidance.
Nectarines	Brown Rot Blossom Blight (Monilinia sp.) Fruit Brown Rot	1 ½	½	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development.

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
	(Monilinia sp.)			In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
Peaches	Brown Rot Blossom Blight (Monilinia sp.)	1 1/2 - 2 1/4	1/2 - 3/4	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
	Fruit Brown Rot (Monilinia sp.)			
	Peach Scab (Cladosporium sp.)	1 1/2 - 2 1/4  PLUS  1 1/8 - 1 1/2	1/2 - 3/4  PLUS  3/8 - 1/2	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development. PLUS Apply at shuck split and at first cover sprays. Preharvest interval: 1 day. See above for Resistance Management, guidance.
Plums and Prunes	Brown Rot Blossom Blight (Monilinia sp.) Fruit Brown Rot (Monilinia sp.)	1 1/2	1/2	Apply at early bloom (green tip). Make a second application at full bloom. In addition, for Fruit Brown Rot, apply 1 or 2 sprays.

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
				starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
	Black Knot (Dibotryon sp.)	1 ½	½	Apply at pre-bloom, petal fall, and at first, second, and third cover sprays at 10 to 14 day intervals. Pre-harvest interval: 1 day. See above for Resistance Management guidance.
	Leaf Spot (Coccomyces sp.)	1 ½	½	Apply at petal fall, shuck, and at first, second and third cover sprays at 10 to 14 day intervals and 1 spray 14 to 21 days after harvest. Pre-harvest interval: 1 day. See above for Resistance Management guidance.
Straw- berries	Fruit Rot (Botrytis sp.) Leaf Blight (Dendrophoma sp.) Leaf Scorch (Diplocarpon sp.)	¾ - 1		Begin applications at early bloom and continue at 7 to 10 day intervals. Use the higher rate East of the Rocky Mountains and under conditions of severe disease pressure. Do not apply more than 2.8 lb. ai (4 lbs product) per acre per year. Pre-harvest interval: 1 day. Resistance Management: THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.
Sugar Beets	Leaf Spot (Carcospora sp.)	3/8 - ½		Begin applications when disease first appears and repeat at 14 to 21 day intervals as needed. Pre-harvest interval: 21 days. Resistance Management:

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
				THIOPHANATE METHYL 70W should not be used alone. Another non-benzimidazole fungicide should be used with THIOPHANATE METHYL 70W for disease resistance management.

NOTE: Dilute sprays are not to exceed maximum rate per acre.

FOR USE ON FALL-SEEDED WHEAT IN IDAHO,  
OREGON AND WASHINGTON ONLY

CROP	DISEASES	LBS/ ACRE	LBS/ 100 GAL	REMARKS
Fall-Seeded Wheat	Pseudocercospora sp. (Foot Rot, Strawbreaker, Eye Spot)	1 lb (0.7 lb. ai/A)		Apply THIOPHANATE METHYL 70W at the rate indicated in a single application by air or ground after wheat is tillered but before stem elongation has begun. Use Sufficient water to obtain thorough coverage. Do not make more than one application per season. Do not cut for hay within 90 days of application. Do not allow livestock to graze in treated areas before harvest.

NOTE: Dilute sprays are not to exceed maximum rate per acre.

### RESISTANCE MANAGEMENT

To avoid the development of tolerant or resistant strains of fungi, THIOPHANATE METHYL 70W should always be tank mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with THIOPHANATE METHYL 70W at each application. MICRO FLO DOES NOT RECOMMEND THE USE OF PRODUCTS CONTAINING BENOMYL OR THIABENDAZOLE IN COMBINATION OR IN ROTATION WITH THIOPHANATE METHYL 70W. If after using THIOPHANATE METHYL 70W as recommended, the treatment is not effective, a tolerant or resistant strain of fungi may be present.

Discontinue the use of THIOPHANATE METHYL 70W for at least one season. Do not use products containing benomyl or thiabendazole as substitutes for THIOPHANATE METHYL 70W, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, THIOPHANATE METHYL 70W can be useful for disease control, even if resistant strains are present.



## WARRANTY AND DISCLAIMER

Micro Flo 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. MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL MICRO FLO 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.

Micro Flo 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 Micro Flo.

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