elf atochem



NOT FOR USE IN CALIFORNIA





Thiophanate-Methyl Fungicide 85% Water Dispersible Granule

ACTIVE INGREDIENT:

*Also known as dimethyl 4,4'-O-phenylenebis[3-thioallophanate]
*TOPSIN is a registered trademark of Nippon Soda Company, Ltd., and is licensed to Elf Atochem North America and is covered by one or more of the following U.S. Patents: 3,769,308; 3,856,847; 4,020,095; and 4,029,813.

CAUTION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

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

IF ON SKIN, immediately flush skin with plenty of water. Get medical attention if irritation persists.

EPA Reg. No. 4581-372

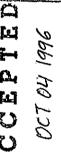
EPA Est. No. 4581-TX-1

NET CONTENTS:

SOLD BY

ELF ATOCHEM NORTH AMERICA, INC. AGCHEM DIVISION

2000 Market Street, Philadelphia, PA 19103



Under the Federal Insecticide.
Fungicide, and Redenticide Act, on amonded, for the pesticide registered under 458/37.



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN, OR INHALED. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or spray mist.

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. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

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.

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 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: After bag has been emptied, 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.

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; LABOH 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.

5-Z310S-05 G5 (3/96) WPS

Made and Printed in U.S.A.*

TOPSIN M 85WOG

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its

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

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:

coveralls

· waterproof gloves · shoes plus socks

Apply TOPSIN M with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Add required amount of TOPSIN M 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. Do not tank mix with highly alkaline pesticides, such as Bordeaux mixture or time 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.

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

IMPORTANT: If, after using TOPSIN M as recommended, treatment is not effective, a tolerant strain of fungi may be present. Consult your State Agricultural Experiment Station or your State Agricultural Extension Service for advice on the prompt use of some other suitable fungicide.

CROP	DISEASES	LES/AGRE	REMARKS
Aktionds	Brown Rot Blossom Blight (Weeklinte sp.)	1 2-1.5	Apply at early pink bud and early petal fall.
Apples ign- fulvesti	Appie Scab (Yerkurla sp.) Unter Rot (Glomerella sp.)	0.6-1,2	Apply at 5- to 10-day intervals from green up through pacel (all; continue at 7- to 14-day intervals in cover sprays.
	Flyspeck [Schizethyrium sp.) Powdery Midew (Federshawm sp.) Sooly Blotch [Gleedes sp.) Black Ret (Frysalecpera sp.)		MOTE: For constnet of apple diseases in the Southeastern States of Florida, Georgia, South Caroline, North Carolina and Alabames, uses 2.5-3.3 powerds 104/Salet M per acre.
H+3ns	Gray More (Botrylle sp.) White Mold (Scientifiel sp.)	1 2-1.6 OR Q 6-1.2	Apply once at 50% to 70% of full bloom. DR 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 post bloom.
			On not apply to stap or dry beans wither 14 days of harvest or to lima beans within 26 days of harvest.
Colerv	Early Blight (Cercospera sp.) Late Blight	04	Apply to the base of the plants on a 14- to 21-day schedule beginning about 2 weeks after transplanting.
	(Septoria sp.)		Apply as a foliar spray every 7 to 14 days beginning about 2 weeks after transplanking
		1	Do not apply within 7 days of francest,
	}	1	Do not make more than 4 applications per season.

CROP	DISEASES	LES/ACRE	NEMARKS
Cucurbds	Anthracnese	0 2-0 4	
(Cucumbers,	Gummy Stem Blight	for pround	Begin applications when plants begin to run or when disease livel appears, and repeat at 7 no 14 day intervals as needed
nicions,	Powsery Mildew	applications	For Target Spot luse 7-day intervals as needed
pumplués.	Target Spot	OR	
summer and walter squash)	(Cucumbers)	0.4 for acreal	
		applications	ļ.
Onions	Whate Rot	0 27-0 4	Apply FOPSIN M by spraying directly into the open furrow
	(Scieratium sp.)	1000 #	at the time of planting seed, sets or builts. Not for this use
		Di tow	through any type of arrigation systems.
Peanuts	Leaf Spot	0.4	Begin applications 35 days after planning or when disease limit
	(Cercespera spp.)	ļ	appears and repeat at 14- to 21-day intervals as needed. Use
			the 14-day interval under severe disease pressure
			Do not apply within 14 days of harvest
Pecans	Brown Spot [Cercespers sp]	04-03	Use the tugher rate for trees over 30 feet lait and for aeruli applications in Arkansas. Louissata, Mississappi,
	Bowny Spot	1	Okiahoma and Texas.
	(Mycesphaerella sp.)		Begin applications when first leaves are showing and repeat
	Powdery Mildew (Microsphaera sp.)		at 3- to 4-week intervals until shuck split. Do not spory after shuck solid
	Scab	i i	, and the state of
	(Fesiciadium so		1
Soybeans	Anthracrose	0 4-0 8	Apply from full bloom to when pads are "A" to "4" in length
	(Colletetrichem sp.)	,	Make a second approximent of the 21 days tater. Do not make
	Srown Spot (Septonia sp.)	Į į	the second application taler than 14 days after poor average W' in length or when beans form in the pod
	Frogrye Leaf Spot		Use the high rate under severe disease pressure
	(Cercespera sp.)	ŀ	
	Pod and Stem Blight (Diagonthe sp. and the		SOR PEED BELLE DURY Co.
	emperied stage,		FOR SEED BEAMS ONLY—For seed quality make a single application at the high rate when beams form in the peal
	Phomografs 50		Do not make more than 2 sophications per year.
	Purple Seed Stant (Cercespers 50,)		Do not graze or feed treated week or hay to livestock.
Stone Fruits	Brown Rot Blassom Blegter	12	Apply at early bloom (red bud)
(pre-	(Manifima sp.)	, ''	yays a zecoug soom lide onto
franvest)	Fruit Brown Rot		In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting
złosną#.—	(Dispublicated)	Ì	3 weeks before narvest. If needed under severe desease
		ļ ;	pressure, apply additional sprays at 10- to 14-day intervals between full bloom and final pre-harvest socrays
		į	
~~~	Brown Rot Blossom Blight	12 ***	Dr net apply within 1 stry of francest,
-Chernes	(Monitiela sp.)	12	Apply at early bloom (early poocors). Make a second application at but bloom,
	Fruit Brown Rot	ţ	In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting:
	(Menitials sg.)	į ,	3 weeks before harvest, If needed under severe disease
	{	ļ	pressure, apply assistional sprays at 10- to 14-day intervals
	ļ	[ .	between full ploom and final preharvest sprays
			Do not apply within 1 day of harvest.
	Cherry Leaf Spot (Caccamyces sp.)	0 9-1.2	Apply at petal fall or belone, when leaves Artit enfold, and at first, second and third cover at 10- to 14-day intervals and
	(Gecompose sp.)		one spray 14 to 21 days after harvest.
		Į	Do not apply within T day of harvest,
	Powdery Madew	12	Apply at early bloom (early popularit). Make a second
	(Pedesphaera Sp. and	l	аррісавоп ає імії віропі,
	Sphoerotheca sp )	PLUS	¥r∏\$
	Į.	0.9-1.2	Apply at sheck fall and first cover.
			Do not apply writer 1 day of harvest,
-Nectarines	Brown Rot Biossom Blight (Maniflair ss.)	12	Apply at early bloom (pink bud). Make a second application.
	Fruit Brown Rot	-	at full bloom of conditions favor disease development.
	(Manifinia sp.)		In addition, for Fruit Brown Rot, apply 1 or 2 sprays starting
			I weeks before harvest. If needed under severe disease
	ļ	,	pressure, apply additional sprays at 10- to 14-day intervals between full bloom and final preharvest sprays.
	}	\	
	9.00.000	<u> </u>	Do not apply within 1 day of harvest,
Peaches	Brown Rot Blassom Brojet (Monificial sp.)	1,2-1,9	Apply at early bloom (pink bud), Make a second application at full bloom it conditions (avor disease development).
	Fruit Brown Flot	1	- Commenter and
	(Manifiela 19.)		In addition, for fruit Brown Rot, apply E or 2 sprays starting
	1		3 weeks before hervest. If monded under severe disease
ı	1		pressure, apply additional sprays at 10- to 14-day intervals between full bloom and Snal preharvest sprays.
	Į i	ļ i	Do not apply within t day of harvest,
	Peach Scale	1 2-1.9	Apply at early bloom (great bud), Make a second application
	(Cladesperium sp.)	)	at full bloom of consenses tayor disease development
	<u> </u>	PULL	PLUE
	i	0.9-1.2	Apply at stuck split and at first cover sprays,
—Piums	Green Des Marie - 20 11	<del> </del>	Do not apply within I stay of harvest.
—Prims Loca	Brown Rot Blossom Blight  Manifinia gg	12	Apply at early bloom (green up). Make a second application at full blooms.
Prunes	Fruit Brown Rot	[	in addition, for F164 Brown Rot, apply 1 or 2 sprays starting
	(Monitimiz sp )	[	3 weeks beitlie narveid "If needed under severe disease
ı	[		pressure, apply additional sprays at United for feath intervals
	j	[	between hall bloom and local prebarvers sprayer e
	Otash Kaca	<del> </del>	Do not apply; websit it day of harvest.<
	Black Knet (Diseayon sp.)	12	Apply at pro-blober pyral fall, and at legit corporacing times cover aprairs at 10- to 14-day intervals.
	]	\	Do not apply within 'Cay or harvest.
	\ <del></del>	<del></del>	Apply at petal lail short, and at first, second, account
	Leaf Sont	1 17	
	Leaf Spot (Coccomyces sp.)	12	
!		12	cover sprays at 10- to 16-day intervals and 1 (27ay 1463 21 days after harver).

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#### TOPSIN M 85WOG

CROP	DISEASES	LBS/ACRE	REMARKS
Strawbernes	Fruit Rot (Botrylla sp.) Leaf Blight (Dendrophoma sp.) Leaf Scorct (Diplocarpon sp.)	2 6-0 8	Begin applications at early broom 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 within 1 day of harvest
Sugar Beets	Leaf Spot (Cercospera sp.)	0 3-0 4	Begin applications when disease lirst appears and repeat at 14- to 21-day intervals as needed.  Do not apply within 21 days of harvest.

CROP	DISEASES	L8S ACRE	REMARKS
Fall-Seeded Wheal (Idaho, Oregon & Washington only)	Preudecerzespareila sp (Foot Rot, Strawbrezker, Eye Spot)	0.8	Apply TOPSIN M at the rate indicated in a single application by air or ground after wheat is tillered but before stem etongation has begun Use sufficient water to obtain thorough coverage
		1	Do not make more than one apokeation per season
	1	ł .	Do not cut for hay within 90 days of application
	1		Do not allow livestock to graze in treated areas before narvest

### CHEMIGATION GENERAL INSTRUCTIONS

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. 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, quickclosing 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.

#### INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION

Observe the requirements in the System Requirements section above.

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

Apply TOPSIN M only through systems containing anti-syphon and check valve: 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 larger volume of a more dilute suspension per unit time.

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

Do not apply when wind speed favors drift, when system connections or fitting: 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 cente pivot system, block the nozzle set nearest the well/pivot/injection unit to preven spray being applied to this area.

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

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

TOPSIN M 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 an should be avoided.

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

SPRAY PREPARATION:

Remove scale, pesticide residues, and other foreign matter from the chemica tank and entire injector system. Flush with clean water.

Prepare a suspension of TOPSIN M in a mix tank. Fill the tank with ½ or ¾ the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of TOPSIN M and then the remaining volume of water.

APPLICATION INSTRUCTIONS:

Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes o water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of TOPSIN M into the irrigation water line so as to deliver the desired rate per acre. The suspension of TOPSIN M should be injected with positive displacement pump into the main line ahead of a right angle turn to insuradequate mixing.

NOTE: When treatment with TOPSIN M has been completed, do not irrigate th treated area for 24 to 48 hours to prevent washing the chemical off the crop.

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