

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 11, 2025

SENT BY EMAIL

Tasha Lott tasha.lott@albaughllc.com
PRIME SOURCE, A DIVISION OF ALBAUGH LLC

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Add reference

statement for attached booklet.

Product Name: THIOPHANATE METHYL 4.5F SELECT

Admin Number: 89442-14 EPA Receipt Date: 08/31/2022 Action Case Number: 00481158

Dear Tasha Lott:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Elizabeth Andrews via email at andrews.elizabeth@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis, Senior Advisor FHB, RD Office of Pesticide Programs

NOTIFICATION

89442-14

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/11/2025

GROUP

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FUNGICIDE

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THIOPHANATE METHYL 4.5F SELECT ABN: TM 4.5F SELECT

[Optional marketing language: "Contains thiophanate-methyl, the active ingredient used in Topsin 4.5FL TM 4.5F Select is not manufactured or distributed by Cerexagri."]

ACTIVE INGREDIENT:

% BY WT.

Contains 4.5 pounds of thiophanate-methyl per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured For:

Prime Source, LLC P.O. Box 250 10025 Hwy. 264 Alternate Middlesex, NC 27557

EPA Reg. No. 89442-14

EPA Est. No.

NET CONTENTS: 1, 2.5 GALS.

	FIRST AID			
IF	Call a poison control center or doctor immediately for treatment advice.			
SWALLOWED:	Have person sip a glass of water if able to swallow.			
	Do not induce vomiting unless told to do so by a poison control center or doctor.			
	Do not give anything by mouth to an unconscious person.			
IF ON SKIN OR	Take off contaminated clothing.			
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.			
	Call a poison control center or doctor for treatment advice.			
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 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.			

Have the product label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at **1-800-858-7378** seven days a week, 6:30 a.m. to 4:30 p.m. Pacific Time (NPIC Website: www.npic.orst.edu). Outside of these times call your poison control center at **1-800-222-1222**.

[See [inside] booklet for [additional][complete] [First Aid,] [Precautionary Statements.] [Directions for Use] and [Storage and Disposal]]

089442-00014.20220830.DRAFT

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water, after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber (≥ 14 mils), neoprene rubber (≥ 14 mils) and polyethylene. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Handlers mixing, loading, and applying the product as a dip (including application of product in kaolinite clay to conifer seedling roots) must wear:

- · Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Chemical-resistant footwear plus socks
- A chemical-resistant apron

All other mixers, loaders, and applicators must wear:

- Long-sleeved shirt and long pants
- · Shoes plus socks
- · Chemical-resistant gloves
- · Chemical-resistant apron for mixers, loaders, and other handlers exposed to the concentrate

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.

ENGINEERING CONTROLS

When handlers use enclosed cabs 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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water.

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

Use this product 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 intervals. 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). The REI for each crop is listed in the directions for use associated with each crop.

Exemption: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated areas if there will be no contact with anything that has been treated

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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- · Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard (WPS) 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. Do not enter or allow others to enter until sprays have dried.

PRODUCT INFORMATION

Shake well before using.

Apply TM 4.5F Select with ground or aerial equipment using sufficient volume of spray to provide thorough coverage. Add required amount of TM 4.5F Select 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 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 instructions for application schedules.

Use the fl. oz./acre rate for concentrate sprayers (less than 400 gallons on apples, less than 300 gallons on stone fruit). Use the fl. oz./100 gals. rate for dilute ground application. For aerial applications use a minimum of 5 gals./acre for row crops; use a minimum of 10 gals./acre for tree crops. For ground applications use a minimum of 20 gals./acre for row crops and 30 gals./acre for tree crops. Higher spray volume will result in better coverage and better disease control.

Chemigation instructions follow the **RESISTANCE MANAGEMENT** section of this labeling. Do not apply through any irrigation system unless these instructions are followed.

In California, chemigation is only allowed for the following crops: beans, cucurbits (cantaloupe, casaba, cucumbers, melons, pumpkins, squash, and watermelons), peanuts, soybeans, strawberries, and sugar beets

When an adjuvant is to be used with this product, Prime Source, LLC suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

RESISTANCE MANAGEMENT

To avoid the development of tolerant or resistant strains of fungi, tank mix TM 4.5F Select with a fungicide of different chemistry and/or alternate a fungicide of different chemistry with TM 4.5F Select at each application. DO NOT USE PRODUCTS CONTAINING THIABENDAZOLE OR OTHER PRODUCTS CONTAINING THIOPHANATE METHYL IN COMBINATION OR IN ROTATION WITH TM 4.5F SELECT. If after using TM 4.5F Select as directed and the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of TM 4.5F Select for at least one season. Do not use products containing thiabendazole as substitutes for TM 4.5F Select, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, TM 4.5F Select can be useful for disease control even if resistant strains are present.

CHEMIGATION 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, 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 non-uniform distribution of treated water.

If you have questions about calibration, contact Cooperative 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 the 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 requirement:

- 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.

INSTRUCTIONS FOR SPRINKLER (OVERHEAD) IRRIGATION, DRIP (TRICKLE) IRRIGATION

Observe the requirements in the **SYSTEM REQUIREMENTS** section above. Do not apply when wind speed favors drift beyond the area intended for treatment.

Apply TM 4.5F Select 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 ensure simultaneous shut off.

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

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

Application of more than the specified quantities of irrigation water per acre can 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.

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 nozzles before turning off irrigation water.

Apply TM 4.5F Select in conjunction with chemically neutral liquid fertilizers. Avoid application in conjunction with highly alkaline fertilizers such as aqueous ammonia, as degradation of the pesticide could result in reduced performance.

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

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 TM 4.5F Select 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 TM 4.5F Select and then the remaining volume of water.

APPLICATION INSTRUCTIONS

Sprinkler Irrigation-Notes

Observe all SYSTEMS REQUIREMENTS and APPLICATION INSTRUCTIONS. Set sprinkler system to deliver 0.4 inches of water per acre. Volumes of water higher than this could reduce efficacy. Start sprinkler and then uniformly inject the suspension of TM 4.5F Select into the irrigation water line so as to deliver the desired rate per acre. Inject the suspension of TM 4.5F Select with a positive displacement pump into the main line ahead of a right angle to ensure adequate mixing.

NOTE: When treatment with TM 4.5F Select has been completed, do not irrigate the treated area for 24- to 48-hours to prevent washing the chemical off the crop.

Drip (Mini-Micro Sprinklers, Strip Tubing, Trickle) Irrigation-Notes
Observe all SYSTEM REQUIREMENTS and APPLICATION INSTRUCTIONS.

Pre-harvest Interval (PHI)

The required days between last application and harvest are given in the **REMARKS** section for each crop.

REI = Restricted-Entry Interval

APPLICATION RATES

		APPLICATION RA	AIES	
CROP	DISEASES	FL. OZ./ACRE/ APPLICATION	FL. OZ./ 100 GALS.	REMARKS
ALMONDS	Brown Rot Blossom Blight (Monilinia) Scab (Cladosporium sp.) Jacket Rot (Monilinia,	20 - 30		Apply at early pink bud and early petal fall. Apply at pink bud for Brown Rot control.
	Sclerotinia, Botrytis) Leaf Blight (Seimatosporium)			For all other applications TM 4.5F Select can be applied with a contact fungicide like Ziram 76F for broadspectrum control and resistance management.
	 Do not apply more th Do not apply more th The PHI is 1 day. The REI is 3 days. 			
APPLES	Apple Scab (Venturia) Black Pox* (Helminthosporium papulosum) Flyspeck (Zygophiala sp.) Powdery Mildew (Podosphaera sp.) Sooty Blotch (Gloeodes) Black Rot (Botryosphaeria obtusa) Brooks Fruit Spot (Mycosphaerella sp.) White Rot* (Botryosphaeria sp.) *Not registered for use • Do not apply more trapplications beginnir diseases. • The PHI is 1 day.	an 80 fl. oz. of pro		Apply at 5- to 10-day intervals from green tip through petal fall; continue at 7- to 14-day intervals as cover sprays. per year total including both pplications to control post-harvest
	 The REI is 2 days. 			
APPLES	Pre-Harvest use to cor			
(continued)	Storage Rot Blue Mold (Penicillium expansum) Gray Mold (Botrytis cinerea) Bulls-Eye Rot (Neofabraea spp.)	1	3.75 - 5	Apply as a pre-harvest spray within 2 weeks to 3 days of harvest. Application closer to harvest provides better efficacy. Application of a non-benzimidazole post-harvest fungicide such as Penbotec® or Schlor® will provide additional protection from post-harvest diseases.
	applications beginning diseases.	ng at petal fall and nidazole fungicide	pre-harvest a	e per year total including both applications to control post-harvest ect® post-harvest following a pre-

				Page 7 of 18
BEANS	Gray Mold (Botrytis)	30 - 40		For one application: Apply when
(Dry and	White Mold	6-		100% of plants have at least one
Succulent)	(Sclerotinia)	OR		open bloom or when conditions are
including:	Anthracnose	20 20		favorable for disease development.
Lima bean	(Colletotrichum)	20 - 30		0.0
Snap bean				OR
Kidney bean		Use a maximum		E ICI C MI C
Mung bean		of 80 fl. oz. of		For multiple applications: Make first
Navy bean		product per acre		application when 10% - 30% of
Pinto bean Wax bean		(2.8 lbs. a.i.) per		plants have at least one open bloom and follow with sequential
Broad bean		crop cycle, with a minimum 7-day		
Fava bean		spray interval.		applications on a 4- to 7-day interval
Asparagus	a Do not apply more		of product po	r 1/00r
bean	Do not apply more in the DELie 1 days for			
Blackeyed pea	The REI is 1 day fo			
Cowpea	The PHI is 14 days		is and iima be	eans.
Sweet lupine	PHI is 28 days for contact.	iry beans.		
White lupine	For California Only			
White Sweet	For California Only:PHI is 14 days for s	vuoculont haans		
lupine			haana	
Grain lupine	PHI is 28 days for contact.	iry beans and iima	beans.	
Chick pea				
Garbanzo bean				
CUCURBITS	Acremonium/	10		Apply in-furrow, on top of the seeds
Cantaloupe	Cephalosporium			at planting. Do not use less than 10
Casaba	Hypocotyl Rot			gallons of water per acre.
Cucumbers	Anthracnose*	10		Begin applications when plants
Melons	(Colletotrichum)			begin to run or when disease first
Pumpkins	Gummy Stem Blight*			appears and repeat at 7- to 14-day
Summer and	(Didymella)			intervals as needed.
Winter squash	Powdery Mildew			
Watermelons	(Erysiphe)			For Target Spot, use 7-day
	Target Spot*			intervals as needed.
	(Corynespora)	10		For Bolly Bata, apply in sufficient
	Belly Rots	10		For Belly Rots, apply in sufficient volume to allow runoff to the soil.
	(Rhizoctonia, Fusarium)			Will not control <i>Pythium</i> or
	i usanum)			Phytophthora.
	Suppression of Vine	10		Apply through buried drip irrigation
	Decline	10		(chemigation) to the root zone. For
	(Monosporascus)			disease suppression, apply at 14-
	Charcoal Rot			day intervals beginning at
	(Macrophomina)			emergence and continuing to
	(was opnormia)			harvest. Applications weekly or
				biweekly, beginning 4 - 6 weeks
				prior to harvest, will also offer
				suppression but may not be as
				effective as a season-long program.
	*Not registered for use	in California	1	program.
	3		et (2 lbs. a i) r	per acre per season from any
	combination of application		(2 100. a.i.) p	as o per occount from any
		•	mancozeb or	chlorothalonil for additional disease
	control and resistance			ss. salaisiii isi additisiidi disedse
			es under DID I	ECTIONS FOR USE
	Follow resistance management guidelines under DIRECTIONS FOR USE . The PHI is 1 day.			
	The PHI is 1 day. The REI is 1 day.			
GARLIC	Penicillium Clove Rot		20	Completely immerse garlic cloves in
(Clove treatment)	1 STROMINATE CIOVE INUL		20	suspension for at least five minutes.
(Sieve a caunoni)				caspondion for at loads live minutes.
	<u> </u>	l .		

				rage o UI 10
				Continuously agitate the solution tank by hydraulic or mechanical means.
				After treatment, remove cloves from solution and drain over sand. Dry cloves after treatment and prior to planting.
	 The PHI is 0 days. 			
ONIONS* GARLIC (IN-FURROW)	White Rot (Sclerotinia cepivorum)	40 broadcast		Apply TM 4.5F Select by spraying directly into the open furrow at the time of planting seed, sets, or bulbs.
	*Not registered for use	in California.		
	 Not for this use through 	gh any type of irrig	ation system.	
	Do not apply more thatThe PHI is 0 days.			
	The REI is 3 days.	40	I	5
PEANUTS	Early Leaf Spot (Cercospora) Late Leaf Spot (Cercosporidium) Rust (Puccinia) Limb Rot (Rhizoctonia) Web Blotch (Ascochyta)	10		Begin applications when disease first appears and repeat at 14-day intervals, as needed.
		ide such as manc ent guidelines und	ozeb at 1.5 lb: ler DIRECTIO	
PECANS	Brown Spot	20		Begin applications when first leaves
	(Cercospora) Downy Spot (Mycosphaerella) Liver Spot (Gnomonia) Powdery Mildew (Microsphaera) Scab (Fusicladium) Stem End Blight (Botryosphaeria sp.) Zonate Leaf Spot (Cristulariella sp.)			are showing and repeat at 3- to 4- week intervals until shuck split. Do not spray after shuck split.
	 Do not apply more the 	an 60 fl. oz./acre d	of TM 4.5F Se	lect per season.
	Follow resistance maThe PHI is 1 day.The REI is 3 days.	nagement guidelir	nes under DIR	ECTIONS FOR USE.
PISTACHIOS	Shoot Blight (Botrytis,	30 - 40		Apply at bloom.
PISTACHIOS	Botryosphaeria)	30 - 40		Apply at bloom. Apply in a minimum of 100 gallons per acre by ground or 20 gallons per acre by air. For aerial application, fly over every
				row or center.
	 Do not apply more the The PHI is 0 days. 	an 40 fl. oz./acre o	of TM 4.5F Se	
DOTATOES	The REI is 3 days. White reals	00 00		Males first and instinction in the first
POTATOES	White mold	20 - 30		Make first application just prior to

				Page 9 of 18
	Do not apply more The PHI is 21 days		of TM 4.5F Se	row closure to full bloom of the primary flower clusters, prior to petal drop, followed by a second application 14 days later, and at 14-day intervals if conditions for disease development are favorable. Thorough coverage of the flowers, stems and branches is essential for disease control. Apply prior to the development of disease for best results. May be tank mixed with other fungicides labeled for early and late blight control. Prime Source, LLC does not recommend aerial application for control of this disease on this crop.
	The PHI is 21 days The REI is 2 days.			
SOYBEANS	Anthracnose (Colletotrichum) Brown Spot (Septoria) Frog-eye Leaf Spot (Cercospora) Stem and Pod Blight (Diaporthe, Phomopsis)	10 - 20		Apply from full bloom when pods are 1/8 - 1/4 inch in length. Make a second application 14 to 21 days later. Do not make the second application later than 14 days after pods average 1/4 inch in length or when beans form in the pod. Use the high rate under severe disease pressure.
	Purple Seed Stain (Cercospora)	20		FOR SEED BEANS ONLY: For seed quality, make a single application at the high rate when beans form in the pod.
	White Mold (Sclerotinia)	15 - 20		Make one application at early bloom (R-1 to R-2 stage) followed by a second application 14 days later if conditions are favorable for continued disease pressure. Thorough coverage of the flowers, stems and branches is essential for disease control. Use a minimum of 5 gallons of water per acre by air.
	Aerial Blight (suppression)	20		Make initial application when disease threatens (before visual symptoms appear) and repeat 14 - 21 days later if needed. Applications later than 14 days after pods average 1/4 inch in length are
	Do not apply moreDo not make moreDo not graze or feeThe PHI is 21 days	than 2 applications d treated vines or h	per year.	prohibited. elect per year.
	The REI is 1 day.			

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	Black Knot (Dibotryon)	20 - 30 (use 30 in California)	6.7 - 10	10- to 14-day intervals between full bloom and final pre-harvest sprays. Apply at pre-bloom, petal fall, and at first, second, and third cover spray at 10- to 14-day intervals.
	Leaf Spot (Coccomyces)	20 - 30 (use 30 in California)	6.7 - 10	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.
	 Do not apply more the Follow resistance ma The PHI is 1 day. The REI is 2 days. 			
STRAW- BERRIES	Suppression only: Crown Rot* (Colletotrichum spp.)	15 - 20		Begin applications after establishment of the transplants and continue through first bloom at 10- to 14-day intervals. Use the higher rate if the fields have a history of Colletotrichum Crown Rot and/or conditions are favorable for development of the disease. Will not control Phytophthora species.
	Fruit Rot (Botrytis) Leaf Blight (Dendrophoma) Leaf Scorch (Diplocarpon) Powdery Mildew (Sphaerotheca)	15 - 20		Begin applications at early bloom and continue at 7- to 10-day intervals. Use higher rate under conditions of severe disease pressure.
	*Not registered for use • Do not apply more the • Follow resistance ma • The PHI is 1 day. • The REI is 1 day.	an 80 fl. oz. of this		
SUGARBEET	Cercospora Leaf Spot (Cercospora)	10 - 20 (use 10 in California)		Apply when conditions become favorable for disease development before the disease appears and follow with a non-benzimidazole fungicide within 14 days of application or as needed. Tank mix TM 4.5F Select with a protectant fungicide such as mancozeb or triphenyltin hydroxide when resistant strains of <i>Cercospora</i> are present in the field. For areas east of the Rocky Mountains: Do not make more than one application of TM 4.5F Select per season for <i>Cercospora</i> Leaf Spot.
	Powdery Mildew (<i>Erysiphe</i> spp.)	10 - 20 (use 10 in California)		Apply as soon as disease symptoms appear and follow with a nonbenzimidazole fungicide at a 14-day interval or as needed. TM 4.5F Select can be tank mixed with sulfur products such as Microthiol® Disperss® at 5 to 10 lbs./acre for

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	 Do not apply more th Follow resistance ma The PHI is 21 days. The REI is 1 day. 			. ,
TRITICALE AND FALL SEEDED WHEAT Idaho, Oregon, and Washington only	Foot Rot Strawbreaker Eye Spot (<i>Pseudocercosporell</i> a spp.)	20		Apply TM 4.5F Select 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 apply more th Do not cut for hay wi Do not allow livestoc The PHI is 90 days. The REI is 1 day. 	thin 90 days of app	olication.	

FOR USE ON CONIFERS (Not for use in California)

СКОР	DISEASES	MAXIMUM APPLICABLE RATE PER ACRE	RATE, MINIMUM GALLONAGE	REMARKS
CONIFERS Pine Austrian Red Scots Christmas Trees	Tip Blight (<i>Diplodia</i>)	60 fl. oz.	20 fl. oz. product per acre applied in spray solution at a rate of 100 gallons of spray per acre	Apply at bud break. Repeat 10 to 14 days later, just before needles emerge from sheath; repeat again 10 to 14 days after needle emergence.
Fir Douglas	Swiss Needle Cast (Phaecryptopus) Rhabdocline Needle Cast	100 fl. oz.	20 fl. oz. product per acre applied in spray solution at a rate of 50 gallons of spray per acre	Apply initially in early May. Repeat at 4-week intervals.

- Pine: Do not apply more than 60 fl. oz./acre of TM 4.5F Select per year.
- Fir: Do not apply more than 100 fl. oz./acre of TM 4.5F Select per year.
 Add a spreader-sticker to improve coverage.
- Use minimum gallonage with mist-blower types of sprayers and higher gallonage with conventional sprayers.
- Do not graze livestock in treated areas.
- The REI is 12 hours.

CONIFERS	Brown Needle Blight	 1.25 fl. oz. per 9.5	Wet seedling roots in clean
(Seedling	(Scirrhia)	oz. of dry kaolinite	water, then apply TM 4.5F
treatment)	,	clay for seedling	Select / kaolinite mixture to wet
Longleaf		roots	roots.
Loblolly	Fusarium and	 2 fl. oz. / 50 oz.	Thoroughly cover seedling roots
Longleaf	Rhizoctonia Root	kaolinite clay, plus	with TM 4.5F Select / kaolinite
Slash	Rot	enough water to	slurry.
		make a slurry	•

- Do not apply mixture to seedling foliage.
- During treatment, avoid excessive drying of roots or exposure to temperatures greater than 90°F or less than
- TM 4.5F Select does not control Pythium or Phytophthora.
- The REI is 12 hours.

HORTICULTURAL APPLICATIONS GREENHOUSE, NURSERY, AND LANDSCAPE

REI-12 hours

TM 4.5F Select provides broad-spectrum control of many foliar, stem, and below-ground diseases on a wide range of horticultural plants grown or maintained under a variety of conditions. Apply TM 4.5F Select 14 to 21 days prior to when a particular disease usually appears and at the very latest, upon first sign of disease. Use 7- to 14-day spray intervals with 14 days being for preventive treatments and the 7-day interval for times when conditions are conducive to disease development. Add an acceptable wetting agent to the spray tank to increase product efficacy for hard-to-wet foliage. Use a spreader-sticker when excessive and repeated foliar wetting occurs. Use TM 4.5F Select to control listed diseases on non-commercial fruit and nut trees. Do not use fruit or nuts from trees treated with this product as food. Do not apply this product to home orchards or backyard fruit trees after fruit set.

Note: TM 4.5F Select has been determined to be safe for use on the plant types listed in these directions for use based on cumulative data derived from research trials and historical field use. As all species and cultivars have not been tested, perform trial applications if a user wishes to make an application to a plant type not listed on the label but found on a similar use site and for disease that is listed on the label. To conduct a trial application, apply at least two applications to at least 25 trial plants at the highest concentration, 7 days apart. Evaluate 7 days after the last application before initiating full-scale application. Do not use this product on the following plants: Swedish Ivy (*Nephrolepis exaltata*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

PLANT TYPE	SUCH AS BUT NOT LIMITED TO:		
Herbaceous	Ageratum, Begonia, Canna, Coleus, Dahlia, Dusty Miller, Foxglove, Fuchsia,		
Bedding	Geranium, Impatiens, Lavender, Marigold, Pansy, Petunia, Pinks, Primrose, Salvia,		
	Statice, Strawflower, Tickseed, Verbena		
Flowering	Chrysanthemum, Hydrangea, Hollyhock, Iris, Lily, Poinsettia		
Tropical Foliage	Dieffenbachia, Dracaena, English Ivy, Philodendron, Pothos		
Woody Ornamentals	Azalea, Hibiscus, Holly, Ligustrum, Rhododendron, Rose, Pyracantha		
Evergreen Trees	Douglas Fir, Fir, Larch, Pine, Spruce		
Deciduous Trees*	Ash, London Plane, Maple, Oak, Sycamore, Walnut		
Flowering Trees*	Cherry, Crabapple, Hawthorn, Mountain Ash, Pear		

^{*}Do not use fruit or nuts from treated trees as food or feed.

FOLIAR SPRAY PLANT TYPES AND DISEASES CONTROLLED

DISEASE(S)	PLANT TYPES
Anthracnose	Woody ornamentals, shade trees ¹
Ascochyta Blight	Herbaceous ornamentals
Black spot	Roses
Botrytis (Gray Mold)	Woody and herbaceous ornamentals
Brown Rot	Woody and herbaceous ornamentals
Colletotrichum	Woody and herbaceous ornamentals
Cercospora Leaf Spot	Woody and herbaceous ornamentals
Corynespora Leaf Spot	Ligustrum
Didymellina Leaf Spot	Iris
Diplodia Tip Blight (Diplodia pinea)	Shade and ornamental trees
Ovulinia	Azalea, rhododendron ²
Entomosporium Leaf Spot	Woody and herbaceous ornamentals
Fusicladium Leaf Scab	Woody and herbaceous ornamentals
Phomopsis Blight	Woody and herbaceous ornamentals
Pine Tip Blights	Woody ornamentals
Powdery Mildew	Woody and herbaceous ornamentals, ornamental nut
	and fruit trees
Rust Diseases	Ornamental nut and fruit trees
Ramularia Leaf Spot	Herbaceous ornamentals
Scab	Pyracantha, flowering crab, ornamental fruit and nut
	trees
Septoria Leaf Spot	Woody and herbaceous ornamentals

Woody and herbaceous ornamentals

- ¹ Begin at bud and make 2 or 3 additional applications at 10- to 14-day intervals.
- ² Begin treatment as flowers open. Addition of a spray surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants such as roses.

FOLIAR SPRAY APPLICATIONS

APPLICATION RESTRICTIONS

Maximum Single Application Rates:

Ornamentals: Do not exceed the maximum single application rate of 85.3 oz. TM 4.5F Select per acre (3.0 lbs. thiophanate-methyl active ingredient per acre).

Cut Flowers: Do not exceed the maximum single application rate of 14.2 oz. TM 4.5F Select per acre (0.5 lb. thiophanate-methyl active ingredient per acre).

Seasonal Maximum Application:

All Ornamentals: Do not apply more than 66.6 gallons TM 4.5F Select (300 lbs. thiophanate methyl active ingredient per acre per season).

Hydraulic Application Mixing Instructions

Add the required amount of TM 4.5F Select to a partially filled spray tank agitated by mechanical or hydraulic means and then add the remaining volume of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment.

Application Concentrations (Mechanical or Hand-Held):

Use the labeled amount of TM 4.5F Select per 100 gallons of water for the prevention and control of the diseases shown below.

FOLIAR DISEASES

	CONCENTRATION	
DIOCAGE(O) CONTROL I ED	CONCENTRATION	DEMARKO
DISEASE(S) CONTROLLED	OF TM 4.5F SELECT	REMARKS
	FL. OZ./100 GALS.	
Anthracnose (Colletotrichum)	10.75 - 20	Apply as buds break or at first sign of disease.
		Repeat application at 7- to 14-day intervals as
		needed during disease period.
Black Spot of Rose (Diplocarpon	10.75 - 20	Apply early summer or at first sign of disease.
rosae)		Repeat application every 7 to 14 days as
		needed during disease period.
Brown Rot and Blight (Monilinia,	10.75 - 20	Apply late spring or at first sign of disease.
Sclerotinia, Whetzellinia)		Repeat application every 7 to 14 days as
ŕ		needed during the disease period.
Fusicladium and Venturia Leaf	10.75 - 20	Apply as buds break. Repeat application
Scabs on:		every 7 to 14 days during disease period.
Crabapple, Hawthorn, Pear,		Effective control requires coverage during
Mountain Ash, Pyracantha, etc.		expansion. Rotations with chlorothalonil or
		propiconazole can be utilized.
Leaf Spots and Blights caused	10.75 - 20	Make applications when disease symptoms
by:	(10 - 14.5; California	first appear. Repeat every 7 to 14 days during
Ascochyta, Blumeriella, Botrytis,	Only)	disease period. Rotations with chlorothalonil
Cercospora, Coccomyces,		can be used.
Corynespora, Curvularia,		
Didymellina, Entomosporium,		
Fabraea, Fusarium, Ramularia,		
Rhizoctonia, Marssonina,		
Mycosphaerella, Myrothecium,		
Phoma, Physalospora,		
Schizothyrium, Septoria,		
Sphaceloma		
Ovulinia Blight	7.25 - 20	Apply as flowers open. Repeat every 7 to 14
		days during disease period.
Powdery Mildews	10 - 20	Apply when disease first appears and repeat

Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca		application every 7 to 14 days. Rotations with other effective products can be used.
Rust Diseases caused by: Puccinia, Gymnosporangium, Uromyces	10.75 - 20	Apply late spring or when symptoms first appear. Repeat applications every 7 to 14 days during disease period. Rotations with other effective products can be used.
Tip Blight of Pine Sphaeropsis sapinea, Diplodia pinea	14.5 - 20	Begin applications in the spring when new growth starts. Make a second application just prior to needle emergence from the sheath and a third application 7 days later. Ensure thorough coverage.
Twig Blights, Cankers, and Diebacks Diaporthe, Kabatina, Phoma, Phomopsis	14.5 - 20	Apply when symptoms first appear. Repeat applications every 7 to 14 days during disease period.

Adjuvants: Where rainfall and/or overhead irrigation is the norm, use of a compatible spreader/sticker is suggested. Where wetting of foliage is difficult, use a compatible wetting agent. Follow the phytotoxicity precautions described in the **HORTICULTURAL APPLICATIONS** section of this label.

SOIL DRENCH APPLICATIONS

Mixing Instructions: Add required amount of TM 4.5F Select to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation throughout application to keep the material in suspension.

Application Concentrations/Rates and Timing for Disease Control: Create a drench solution by mixing 7.5 to 20 fl. oz. of TM 4.5F Select per 100 gallons of water. Apply as a drench or heavy spray at the rate of 0.5 to 2 pints per square foot (100 gallons per 400 to 1,600 square feet). For small pots and shallow flats up to 4 inches in size, apply at 1 pint per square foot. For containers and pots 4 inches or larger, refer to the following table for the volume to apply. Make repeat applications at 4- to 8-week intervals depending on disease presence and conditions for disease development.

	Drench Solution Volume to Apply/Container	
Container Type	1 pt./ sq. ft. Rate	2 pts./sq. ft. Rate
4 inch	2 fl. oz.	
5 inch	2.5 fl. oz.	
6 inch		6.5 fl. oz.
7 inch		8.5 fl. oz.
8 inch		11 fl. oz.
9 inch		14 fl. oz.
10 inch		17.5 fl. oz.

For containers larger than 10 inches, a drench volume of 2½ to 3 pints per square foot of surface area is required.

Plant Types: Containerized woody shrubs, trees, herbaceous/bedding, flowering, and tropical foliage plants and flowers and bedding plants in the landscape.

Note: Do not apply this product to plug trays or seedling flats at time of seeding.

Soil Diseases Controlled: Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.

Note: Pythium, Phytophthora, and Cylindrocladium spathiphylli are not controlled by TM 4.5F Select.

PLANT DIP TREATMENT

Mixing Instructions: Mix as described in the FOLIAR DISEASES and SOIL DRENCH APPLICATIONS sections of this label. Maintain continuous agitation during application.

Application Concentration and Dipping Time

Plants or Cuttings: Use 14.5 to 20 fl. oz. of TM 4.5F Select per 100 gallons of water. Immerse plants or cuttings for 10 to 15 minutes, remove, and allow to drain and dry. Note that the PERSONAL PROTECTIVE EQUIPMENT section of this label included protective clothing for dip treatment.

Bulbs, Corms, Tubers, and Rhizomes: Use 14.5 to 20 fl. oz. of TM 4.5F Select per 100 gallons of water or two teaspoons of TM 4.5F Select per gallon of water. Soak cleaned bulbs for 15 to 30 minutes in warm dip (80-85°F) within 48 hours of digging. Dry bulbs after treatment. If bulbs are for forcing, treat bulbs that have been heat cured.

Plant Types: Plants, cuttings, cane sections of woody herbaceous, flowering and tropical foliage plants. Bulbs, corms, tubers, and rhizomes of plants such as but not limited to Caladium, Easter Lily, Tulip, Gladiolus, Daffodil, and Iris.

Diseases Controlled: Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicilium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.

TURF APPLICATIONS

Use TM 4.5F Select against certain foliar and soil diseases for use on all turf types such as golf course greens, tees and fairways, athletic fields, cemeteries, parks, and commercial and home lawns. Use TM 4.5F Select both preventatively and curatively; it is not phytotoxic on turfgrass. Do not use TM 4.5F Select on turf being grown for sale or other commercial uses such as sod.

For use only by certified applicators and those under their direct supervision. Do not apply with fixed wing or rotary aircraft.

Mixing Instructions: Add the required amount of TM 4.5F Select to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation to keep the material in suspension. For best results, use spray mixture the same day it is

Turf Types: All cool season and warm season grasses (such as but not limited to Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustinegrasses and Zoysiagrasses) or

DISEASE(S) CONTROLLED	RATE OF TM 4.5F SELECT FL. OZ./1,000 SQ. FT.*	REMARKS
Anthracnose (Colletotrichum graminicola)	2 - 3.5 (3.5 - 5.3)**	Apply when disease first appears. Make additional applications at 14-day intervals as needed. Allow spray to dry on leaves with no watering in.
Dollar Spot (Sclerotinia homoeocarpa) Copper Spot (Gloeocercospora sorghi) Brown Patch and Zoysia Patch (Rhizoctonia solani) Red Thread (Laetisaria fuciformis)	2 - 3.5	Apply when disease first appears. Make additional applications at 14-day intervals as needed. Allow spray to dry on leaves with no watering in.
Pink Snow Mold (Microdochium nivale) (Only for those areas where snow cover is not present the entire winter.)	2 - 3.5	Apply TM 4.5F Select in middle to late November before turf has stopped all growth activity. Lightly water application into the root zone for best results. For best results, use a spreader-sticker. Let second spray dry on leaf surfaces with no watering-in.

		Minimum spray interval is 14 days.
Gray Leaf Spot (<i>Pyricularia grisea</i>)	3.5 - 5.3	Apply when conditions are favorable for disease development. Continue at 14-day intervals. Let spray dry on leaves with no watering in.
Summer Patch (Magnaporthe poae)	3.5 - 5.3	For preventative treatment, make 3 applications at 21-day intervals beginning in early May. Water product into the root zone thoroughly after application. For suppression, apply two applications at 14-day intervals, beginning applications when the disease first appears.
Fusarium Blight (Fusarium roseum) Necrotic Ring Spot and Spring Dead Spot (Leptosphaeria korrae)	3.5 - 5.3	Make two applications at 14-day intervals beginning applications when the disease first appears.
Stripe Smut (Ustilago striiformis)	3.5 - 5.3	Make two applications at 14-day intervals when disease first appears. Water into root zone after application. For prevention, apply in the spring (just before grass begins growth) and in the fall.

^{*}Refer to the use sites and maximum application rates table to determine allowable rates for each application.

Turf Application Directions

Apply TM 4.5F Select uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing for 12 hours after application. Apply sufficient water to obtain thorough coverage; usually $1\frac{1}{2}$ to $2\frac{1}{2}$ gallons per 1,000 sq. ft. of turf area. When treating golf course greens, always treat aprons and approaches to golf greens.

MAXIMUM SINGLE MAXIMUM SEASONAL SITE APPLICATION RATE **APPLICATION RATE** PER FL. OZ./1,000 SQ. FT. FL. OZ./1,000 SQ. FT. Golf Course 5.3 14.25 green/tees/aprons Golf Course Fairways 3.5 3.5 (Except Florida) Golf Course Fairways 1.75 1.75 (Florida only) Residential and Public 1.75 7 areas (home lawns, parks, athletic fields, schools, day care centers)

Note to User: Do not graze animals on treated turf. Do not feed clippings to livestock or poultry.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in 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, absorb with sand or other inert material and dispose of absorbent 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 used 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 HANDLING:

^{**}Use the 3.5 - 5.3 fl. oz. rate for curative response to Basal Stem Anthracnose.

Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. If recycling is not available, puncture or dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. If recycling is not available, puncture or dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with thiophanate methyl only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following **CONDITIONS**, **DISCLAIMER OF WARRANTIES** and **LIMITATIONS OF LIABILITY**.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, 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 weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Prime Source, LLC. All such risks shall be assumed by the user or buyer. **DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Prime Source, LLC makes

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LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Prime Source, LLC election, the replacement of product.

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