

#### U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

**NOTICE OF PESTICIDE:** 

X Registration
Reregistration
(under FIFRA, as amended)

EPA	Reg.	Number:
	.,	

Date of Issuance:

83529-368

2/28/25

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sharda Thiophanate-Methyl 85% WDG

Name and Address of Registrant (include ZIP Code):

Sharda USA LLC C/O Wagner Regulatory Associates, Inc. 7217 Lancaster Pike, Suite A Hockessin, DE 19707

**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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is 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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:	Date:
Shaja B. Joyner, Product Manager 20 Fungicide-Herbicide Branch Registration Division (7505P)	2/28/25

Page 2 of 2 EPA Reg. No. 83529-368 Case No. 490378

- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-368."
- 3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements 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 Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

Basic CSF dated 09/11/2023

If you have any questions, please contact Ernest Kraka at 202-566-2822 or at kraka.ernest@epa.gov.

Enclosure

THIOPHANATE-METHYL

GROUP

**FUNGICIDE** 

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# Sharda Thiophanate-Methyl 85% WDG

[ABN: Thick WDG Fungicide]

ACTIVE INGREDIENT:	WT. BY %
Thiophanate-Methyl: (dimethyl[(1,2-phenylene)-bis(iminocarbonothioyl)]bis[carbamate])	85.0%
OTHER INGREDIENTS	<u>15.0%</u>
TOTAL:	100.0%
Contains 0.85 lb. of thiophanate-methyl per 1 lb. of product.	

# KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you **DO NOT** understand the label, find someone to explain it to you in detail.)

	FIRST AID		
IF IN EYES:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
IF ON SKIN OR CLOTHING:	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
IF INHALED:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>		
IF SWALLOWED:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>DO NOT induce vomiting unless told to do so by a poison control center or doctor.</li> <li>DO NOT give anything by mouth to an unconscious person.</li> </ul>		
HOTLINE NUMBERS			

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at **1-800-222-1222**. For general information about this product, contact the National Pesticides Information Center (NPIC) at **1-800-858-7378**, Monday through Friday, 8 AM to 12 PM PST, or at http://npic.orst.edu.

{Optional referral statements when booklets and container labels are used:}

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

Manufactured for: Sharda USA LLC S U	ACCI
Silarda USA LLC	

7217 Lancaster Pike, Suite A Hockessin, Delaware 19707

EPA Reg. No.: 83529-XXX

**ACCEPTED** 02/28/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

83529-368

EPA Est. No.:	

Net Contents:		Lbs. [Kg
Batch Code	/Lot No.:	

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. 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)

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
- Chemical-resistant apron

# All other mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand-held equipment
- Shoes plus socks

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 or other absorbent materials that have been heavily contaminated with this product. **DO NOT** reuse them.

# **USER SAFETY RECOMMENDATIONS**

#### **Users should:**

- 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.

#### **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 waters.

# **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 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 area 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 including plants, soil, or water is:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks

# 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

Apply **Sharda Thiophanate-Methyl 85% WDG** with ground or aerial equipment using sufficient volume of spray to provide thorough coverage. Add required amount of **Sharda Thiophanate-Methyl 85% WDG** 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. Use the higher rate under conditions of severe disease pressure. Also, check local State Extension Service application schedules.

Use the pound (lb.) per acre rate for concentrate sprayers (less than 400 gallons) and aerial application. Use the lb. per 100 gals. rate for dilute ground application.

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

#### Restrictions:

- DO NOT tank mix with highly alkaline pesticides including Bordeaux mixture or lime sulfur. No claim of compatibility with other
  pesticides is implied.
- Chemigation instructions within the CHEMIGATION SYSTEMS section. DO NOT apply through any irrigation system unless these
  instructions are followed.

#### RESISTANCE MANAGEMENT

To avoid the development of tolerant or resistant strains of fungi, always tank mix **Sharda Thiophanate-Methyl 85% WDG** with a fungicide of different chemistry and/or alternate a fungicide of different chemistry with **Sharda Thiophanate-Methyl 85% WDG** at each application. **DO NOT** USE PRODUCTS CONTAINING THIABENDAZOLE IN COMBINATION OR IN ROTATION WITH **SHARDA THIOPHANATE-METHYL 85% WDG**. If after using **Sharda Thiophanate-Methyl 85% WDG** as directed and the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of **Sharda Thiophanate-Methyl 85% WDG** for at least 1 season. **DO NOT** use products containing thiabendazole as substitutes for **Sharda Thiophanate-Methyl 85% WDG**, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, **Sharda Thiophanate-Methyl 85% WDG** can be useful for disease control even if resistant strains are present.

#### **CHEMIGATION SYSTEMS**

[Use in California by Chemigation Systems Only in Beans, Cucurbits (cucumbers, melons, pumpkins, squash, watermelons), Peanuts, Potatoes, Soybeans, and Strawberries, and Sugar Beets.]

#### **Application Information**

Apply **Sharda Thiophanate-Methyl 85% WDG** 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 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 if needed.

**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 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.

# 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 treatment.

Apply Sharda Thiophanate-Methyl 85% WDG 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 shutoff.

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

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.

**Sharda Thiophanate-Methyl 85% WDG** may be applied in conjunction with chemically neutral liquid fertilizers. Avoid application in conjunction with highly alkaline fertilizers, including aqueous ammonia, as degradation of the pesticide could result in reduced performance.

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 chemical tank and entire injector system. Flush with clean water. Prepare a suspension of **Sharda Thiophanate-Methyl 85% WDG** in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of **Sharda Thiophanate-Methyl 85% WDG** and then the remaining volume of water.

#### **Application Instructions**

- Sprinkler Irrigation: Observe all System Requirements and Application Information listed within the CHEMIGATION SYSTEMS section. Set sprinkler system to deliver 0.1 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 Sharda Thiophanate-Methyl 85% WDG into the irrigation water line so as to deliver the desired rate per acre. Inject the suspension of Sharda Thiophanate-Methyl 85% WDG with a positive displacement pump into the main line ahead of a right angle to ensure adequate mixing. When treatment with Sharda Thiophanate-Methyl 85% WDG has been completed, DO NOT irrigate the treated area for 24 48 hours to prevent washing the chemical off the crop.
- **Drip Irrigation (Mini-Micro Sprinklers, Strip Tubing, Trickle):** Observe **System Requirements** and **Application Information** listed within the **CHEMIGATION SYSTEMS** section.

#### **CROP SPECIFIC DIRECTIONS**

# BEANS[\*]

#### [(Except California)]

Including: Lima Bean, Snap Bean, Kidney Bean, Mung Bean, Navy Bean, Pinto Bean, Wax Bean, Broad Bean, Fava Bean, Asparagus Bean, Blackeyed Pea, Cowpea, Sweet Lupine, White Sweet Lupine, Grain Lupine, Chick Pea, and Garbanzo Bean

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Anthracnose (Colletotrichum spp.) Gray Mold (Botrytis spp.) White Mold (Sclerotinia spp.)	1.2 - 1.6 lbs. (1.02-1.36 lbs. a.i.)	For a Single Application: Apply when 100% of the plants have a least one open bloom or when conditions are favorable for disease development.
	0.8 - 1.2 lbs. (0.68-1.02 lbs. a.i.)	For Multiple Applications: Make first application when 10% - 30% of plants have at least one open bloom and/or conditions are favorable for disease development.

#### **Restrictions:**

- A maximum of 3.2 lbs. (2.72 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per crop cycle may be used with a minimum 7-day spray interval.
- Pre-harvest Interval (PHI): 14 days for Snap and Lima; 28 days for Dry Beans.
- Restricted-Entry Interval (REI): 1 day for all Beans; 3 days for Dry Beans.
- [\*Not registered for sale or use in Arizona.]

# **BEANS**

# [(California Only)]

Including: Lima Bean, Snap Bean, Kidney Bean, Mung Bean, Navy Bean, Pinto Bean, Wax Bean, Broad Bean, Fava Bean, Asparagus Bean, Blackeyed Pea, Cowpea, Sweet Lupine, White Sweet Lupine, Grain Lupine, Chick Pea, and Garbanzo Bean

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Anthracnose (Colletotrichum spp.) Gray Mold (Botrytis spp.)	0.8 - 1.6 lbs. (0.68-1.36 lbs. a.i.)	For a Single Application: Apply once at 50% - 70% of full bloom.
White Mold (Sclerotinia spp.)		<b>For Multiple Applications:</b> Apply twice with the first application at 10% - 30% of full bloom and a second application at 4 - 7 days later or at peak bloom.

- Pre-harvest Interval (PHI): 14 days for Snap and Lima (Succulent); 28 days for Dry Beans including Dry Lima.
- Restricted-Entry Interval (REI): 1 day for all Beans; 3 days for Dry Beans.

#### **CANOLA**

(North Dakota, Minnesota, and Montana (East of Interstate 15) Only)

(Note: Danota) minicotta) and montana (2000 of mecrotate 25) only)			
Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions	
Stem Rot (Sclerotinia sclerotiorum)	0.8 - 1.6 lbs.	For a Single Application: Apply once at stage of 20% - 50%	
White Mold (Sclerotinia spp.)	(0.68-1.36 lbs. a.i.)	flowering.	
	0.8 lb.	For Multiple Applications: Apply twice with first application at	
	(0.68 lb. a.i.)	stage of 20% - 30% flowering with second application at stage	
		of 40% - 50% flowering. Thorough coverage of flowers is	
		essential for controlling White Mold.	

#### **Restrictions:**

- DO NOT apply more than 1.6 lbs. (1.36 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 0 days
- Restricted-Entry Interval (REI): 12 hours

# **CUCURBITS**

Including: Cucumbers, Melons, Pumpkins, Summer, Watermelons, and Winter Squash

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Anthracnose[*] (Colletotrichum spp.)	0.2 - 0.4 lb. (0.17-0.34 lb. a.i.) for	Begin applications when plants begin to run or when
Gummy Stem Blight* (Didymella spp.)	ground applications	disease first appears and repeat at 7- to 14-day
Powdery Mildew (Erysiphe spp.)		intervals as needed.
Target Spot[*] (Corynespora spp.)	OR	
	0.4 lb. (0.34 lb. a.i.) for aerial	For Target Spot, use 7-day intervals as needed.
	applications	
Belly Rots (Rhizoctonia/Fusarium spp.)	0.4 lb. (0.34 lb. a.i.)	For Belly Rots, apply in sufficient volume to allow runoff to the soil. Does not control <i>Pythium</i> sp.
Suppression of vine decay caused by Monosporascus cannonballus	0.4 lb. (0.34 lb. a.i.)	For Disease Suppression, apply at 14-day intervals beginning at emergence and continuing to harvest. Make 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.

# Restrictions:

- DO NOT apply more than 2.5 lbs. (2.13 lb. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 1 day

[\*Not approved for use in California.]

#### **GARLIC**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per 100 Gals.	Application Instructions
Penicillium Clove Rot	(0.68 lb. a.i.)	Immerse garlic cloves completely in suspension for at least 5 minutes. Continuously agitate the solution tank by mechanical or hydraulic means. After treatment, remove cloves from solution and drain them over sand. Dry cloves after treatment and before planting.

#### Restrictions:

- Pre-harvest Interval (PHI): 0 days
- Restricted-Entry Interval (REI): 12 hours

# **GARLIC and ONIONS**

(In-Furrow)

Diseases	Sharda Thiophanate-Methyl 85% WDG	Annication Instructions
Diseases	Rate per Acre	Application Instructions

White Rot[*] (Sclerotium	0.4 - 0.6 oz.	Spray directly into the open furrow at the time of planting
spp.)	(0.025 – 0.0375 lb.) (0.021 – 0.32 lb. a.i.)	seed, sets, or bulbs.
	per 1,000 ft. of row	
	(12-inch row spacing)	
	OR	
	1.6 lbs. (1.36 lbs. a.i.) broadcast	

- **DO NOT** apply through any type of irrigation system.
- DO NOT apply more than 1.6 lbs. (1.36 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 0 days
- Restricted-Entry Interval (REI): 3 days

[\*Not approved for use in California.]

#### **GRAPES**

(West of Rocky Mountains)

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Botrytis Bunch Rot (Botrytis cinerea) Powdery Mildew (Uncinula necator)	0.8 - 1.2 lbs. (0.68 - 1.02 lbs. a.i.)	Apply at first bloom and repeat 14 days later or whenever severe disease conditions exist. Make second application 3 - 4 weeks before harvest or when sugar begins to build. Make third application 14 days later if conditions favorable to disease development persist.  For Powdery Mildew, continue applications throughout the season. Combine with sulfur or in rotation with sulfur and/or DMI fungicides.

#### Restrictions:

- DO NOT apply more than 3.2 lbs. (2.72 lb. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 14 days
- Restricted-Entry Interval (REI): 2 days
- Refer to the **RESISTANCE MANAGEMENT** section for additional instructions.

# **GRAPES**

(East of Rocky Mountains)

(Last of Room, Mountains,		
Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Bitter Rot (Melanconium spp.)	0.6 - 1.2 lbs.	Apply when foliage first develops and repeat at intervals
Black Rot (Guignardia spp.)	(0.51 – 1.02 lbs. a.i.)	of 14 - 21 days or as needed.
Powdery Mildew (Uncinula spp.)	,	,

# **Restrictions:**

- DO NOT apply more than 3.2 lbs. (2.72 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 14 days
- Restricted-Entry Interval (REI): 2 days
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

POTATOES[\*]

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
White Mold (Sclerotinia sclerotiorum)	0.8 - 1.2 lbs. (0.68 – 1.02 lbs. a.i.)	Make initial application just before row closure. Repeat application within 7 - 14 days and at intervals of 7 - 14 days if conditions for disease development are favorable. Thoroughly cover lower stems and branches for control. May be tank mixed with other fungicides labeled for blight control.

# **Restrictions:**

- DO NOT apply more than 3.2 lbs. (2.72 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- DO NOT MAKE AERIAL APPLICATION FOR WHITE MOLD ON THIS CROP.
- Pre-harvest Interval (PHI): 21 days
- Restricted-Entry Interval (REI): 2 days

[\*Not approved for use in California.]

# **SOYBEANS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Anthracnose (Colletotrichum spp.)	0.4 - 0.8 lb.	Apply from full bloom when pods are 1/8 - 1/4 inch in

		Page 7 OI I
Brown Spot (Septoria spp.) Frog-Eye Leaf Spot (Cercospora spp.) Purple Spot Strip (Cercospora spp.)	(0.51 – 0.68 lb. a.i.)	length. Make a second application 14 - 21 days later. <b>DO NOT</b> make the second application later than 14 days after pads average 1/4 inch in length or when
Purple Seed Stain (Cercospora spp.) Stem and Pod Blight (Diaporthe spp. and the imperfect stage, Phomopsis spp.)		days after pods average 1/4 inch in length or when beans form in the pod. Use the high rate under severe disease pressure.
		<b>For Seed Beans Only:</b> For seed quality, make a single application at the high rate when beans form in the pod.
White Mold (Sclerotinia spp.)	0.6 - 0.8 lb. (0.51 – 0.68 lb. a.i.)	Make 1 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 in a minimum of 5 gals. of water by air.
Aerial Blight (Suppression)	0.8 lb. (0.68 lb. a.i.)	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.
- Pre-harvest Interval (PHI): 21 days
- Restricted-Entry Interval (REI): 1 day

# **STRAWBERRIES**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Fruit Rot (Botrytis spp.) Leaf Blight (Dendrophoma spp.) Leaf Scorch (Diplocarpon spp.) Powdery Mildew (Sphaerotheca spp.)	(0.51 – 0.68 lb. a.i.)	Begin applications at early bloom and continue at 7- to 10-day intervals. Use higher rate East of the Rocky Mountains and under conditions of severe disease pressure.

#### Restrictions:

- DO NOT apply more than 3.2 lbs. (2.72 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 1 day
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

#### **SUGARBEET**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Leaf Spot (Cercospora spp.)	0.4 - 0.8 lb.	Begin applications when disease first appears and repeat at
Powdery Mildew (Erysiphe spp.)	(0.34 – 0.68 lb. a.i.)	14- to 21-day intervals as needed.

# **Restrictions:**

- DO NOT apply more than 2.5 lbs. (2.13 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 21 days
- Restricted-Entry Interval (REI): 1 day
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

# TRITICALE AND FALL SEEDED WHEAT DIRECTIONS

# Idaho, Oregon, and Washington Only

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Foot Rot, Strawbreaker, Eye Spot	0.8 lb.	Apply at the rate indicated in a single application by air or
(Pseudocercosporella sp.)	(0.68 lb. a.i.)	ground after wheat is tillered, but before stem elongation has
		begun. Use sufficient water to obtain thorough coverage.

# Restrictions:

- **DO NOT** make more than 1 application per year.
- **DO NOT** cut for hay within 90 days of application.
- DO NOT allow livestock to graze in treated areas before harvest.
- Pre-harvest Interval (PHI): 0 days
- Restricted-Entry Interval (REI): 1 day

#### TREE CROP DIRECTIONS

# **ALMONDS**

Diseases	Sharda Thiophanate-Methyl	Application Instructions

	85% WDG Rate per Acre	
Brown Rot Blossom Blight (Monilinia spp.)	0.8 - 1.2 lbs.	Apply as needed between early pink bud and petal fall.
Jacket Rot (Monilinia spp., Sclerotinia spp.,	(0.68 – 1.02 lbs. a.i.)	
Botrytis spp.)		For control of Scab, Jacket Rot, and Leaf Blight, apply
Leaf Blight (Seimatosporium spp.)		in combination with a contact fungicide.
Scab (Cladosporium spp.)		-

- DO NOT apply more than 2.47 lbs. (2.10 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 3 days
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

#### **APPLES**

# (Pre-Harvest)

Diseases	Sharda Thiophar WDG	•	Application Instructions	
2.000.000	Per Acre	Per 100 Gals.		
Apple Scab (Venturia spp.)	0.6 - 0.8 lb.	0.15 - 0.20 lb.	Apply at 5- to 10-day intervals from green tip	
Bitter Rot (Glomerella spp.)	(0.51 – 0.68 lb.	(0.13 – 0.17 lb.	through petal fall; continue at 7- to 14-day	
Black Pox[*] (Helminthosporium	a.i.)	a.i.)	intervals as cover sprays.	
papulosum)	[(Except			
Black Rot (Physalospora spp.)	California)]			
Brooks Fruit Spot (Mycosphaerella spp.)				
Flyspeck (Zygophiala spp.)	1.2 lbs.			
Powdery Mildew (Podosphaera spp.)	(1.02 lbs. a.i.)			
Sooty Blotch (Gloeodes spp.)	[(California Only)]			
White Rot[*] (Botryosphaeria spp.)				
Blue Mold (Penicillium expansum)	0.8 lb.	-	Pre-harvest use to control post-harvest diseases	
Bulls-Eye Rot (Neofabraea spp.)	(0.68 lb. a.i.)		on apples. Apply as a pre-harvest spray within 2	
Gray Mold (Botrytis cinerea)			weeks to 3 days of harvest. Thorough coverage of	
Storage Rot			the fruit is required. Application closer to harvest may provide better efficacy.	

#### **Restrictions:**

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- For Resistance Management, DO NOT use a benzimidazole fungicide post-harvest following Sharda Thiophanate-Methyl 85% WDG application. Application of a non-benzimidazole post-harvest fungicide will provide better protection from post-harvest diseases.

[\*Not registered for use in California.]

# **APRICOTS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate		Application Instructions	
	Per Acre	Per 100 Gals.		
Brown Rot (Monilinia spp.)	0.8 - 1.2 lbs.	0.4 lb.	Apply at early bloom (red bud). Make a second application	
Blossom Blight (Monilinia spp.)	(0.68 – 1.02 lbs.	(0.34 lb. a.i.)	at full bloom. In addition, for fruit brown rot, apply 1 or 2	
Fruit Brown Rot (Monilinia spp.)	a.i.)		sprays starting 3 weeks before harvest. If needed under	
	[(In California,		severe disease pressure, apply additional sprays at 10- to	
	use the higher		14-day intervals between full bloom and final pre-harvest	
	rate.)]		spray.	

# **Restrictions:**

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the **RESISTANCE MANAGEMENT** section for additional instructions.

# **CHERRIES**

Diseases	Sharda Thiophanate-Methyl Diseases 85% WDG Rate		Application Instructions	
	Per Acre	Per 100 Gals.		
Cherry Leaf Spot (Coccomyces	0.8 - 1.2 lbs.	0.3 - 0.4 lb.	Apply at petal fall or before when leaves first unfold and at	
spp.)	(0.68 – 1.02 lbs.	(0.26 - 0.34)	first, second, and third cover sprays at 10- to 14-day intervals	
	` a.i.)	lb. a.i.)	and one spray 14 - 21 days after harvest.	
Powdery Mildew (Podosphaera	0.8 - 1.2 lbs.	0.4 lb.	Apply at early bloom (early popcorn). Make a second	

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spp., Sphaerotheca spp.)	(0.68 – 1.02 lbs.	(0.34 lb. a.i.)	application at full bloom.
	a.i.)		
	PLUS	PLUS	PLUS
	0.8 - 1.2 lbs.	0.3 - 0.4 lb.	Apply at shuck fall and first cover.
	(0.68 – 1.02 lbs.	(0.26 - 0.34)	
	a.i.)	lb. a.i.)	
Brown Rot (Monilinia spp.)	0.8 - 1.2 lbs.	0.4 lb.	Apply at early bloom (early popcorn). Make a second
Blossom Blight (Monilinia spp.)	(0.68 – 1.02 lbs.	(0.34 lb. a.i.)	application at full bloom. In addition, for fruit brown rot, apply
Fruit Brown Rot (Monilinia spp.)	a.i.)		1 or 2 sprays starting 3 weeks before harvest. If needed under
	[(In California,		severe disease pressure, apply additional sprays at 10- to 14-
	use the higher		day intervals between full bloom and final pre-harvest spray.
	rate.)]		
Dashuistianas			

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the **RESISTANCE MANAGEMENT** section for additional instructions.

# **NECTARINES**

Diseases	Sharda Thioph 85% WI	•	Application Instructions
	Per Acre	Per 100 Gals.	
Brown Rot (Monilinia spp.) Blossom Blight (Monilinia spp.) Fruit Brown Rot (Monilinia spp.)	0.8 - 1.2 lbs. (0.68 – 1.02 lbs. a.i.) [(In California, use the higher rate.)]	0.4 lb. (0.34 lb. a.i.)	Apply at early bloom (pink 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 pre-harvest spray.

# Restrictions:

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

# **PEACHES**

	Sharda Thiophanate-Methyl 85% WDG			
Diseases	Rate		Application Instructions	
	Per Acre	Per 100 Gals.		
Brown Rot (Monilinia spp.)	0.8 - 1.2 lbs.	0.4 - 0.6 lb.	Apply at early bloom (pink bud). Make a second application	
Blossom Blight (Monilinia	(0.68 – 1.02 lbs.	(0.34 – 0.51 lb. a.i.)	at full bloom if conditions favor disease development.	
spp.)	a.i.)			
Peach Scab (Cladosporium				
spp.)	PLUS	PLUS	PLUS	
	0.8 - 1.2 lbs.	0.3 - 0.4 lb.	Apply at shuck split and at first cover spray. Treatments	
	(0.68 – 1.02 lbs.	(0.26 – 0.51 lb. a.i.)	must be 10 days apart.	
	a.i.)			
Fruit Brown Rot (Monilinia	0.8 - 1.2 lbs.	0.4 - 0.6 lb.	Apply at early bloom (pink bud). Make a second application	
spp.)	(0.68 – 1.02 lbs.	(0.34 – 0.51 lb. a.i.)	at full bloom. In addition, apply 1 or 2 sprays starting 3	
	a.i.)		weeks before harvest. If needed under severe disease	
	[(In California, use		pressure, apply additional sprays at 10- to 14-day intervals	
	the higher rate.)]		between full bloom and final pre-harvest spray.	

#### Restrictions

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

# **PEANUTS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Leaf Spot (Cercospora spp.)	0.4 lb.	Begin applications 35 days after planting or when disease first
Limb Rot (Rhizoctonia spp.)	(0.34 lb. a.i.)	appears and repeat at 14-day intervals or as needed. Use the
Rust (Puccinia spp.)		14-day interval under severe disease pressure. Use only in
Web Blotch (Ascochyta spp.)		combination with another non-benzimidazole fungicide

including mancozeb at labeled rates.

# **Restrictions:**

- DO NOT apply more than 1.65 lbs. (1.40 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 14 days
- Restricted-Entry Interval (REI): 1 day
- Refer to the RESISTANCE MANAGEMENT section for additional instructions.

#### **PEARS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate		Application Instructions	
	Per Acre	Per 100 Gals.		
Fabraea Leaf Spot (Fabraea maculate) Flyspeck (Microthyriella rubi) Pear Scab (Venturia pirina) Powdery Mildew (Oidium spp.) Sooty Blotch (Gloeodes pomigena)	0.8 lb.		Apply in a minimum spray volume of 10 gals. per acre for aerial applications. Apply at intervals of 5 - 10 days from green tip through petal fall. Apply again at intervals of 7 - 14 days in cover sprays.	

# **Restrictions:**

- **DO NOT** apply through any type of irrigation system.
- DO NOT apply more than 3.2 lbs. (2.72 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the **RESISTANCE MANAGEMENT** section for additional instructions.

# **PECANS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions
Brown Spot (Cercospora spp.)	0.4 - 0.8 lb.	Use the higher rate for trees over 30 feet tall and for
Downy Spot (Mycosphaerella spp.)	(0.34 – 0.68 lb. a.i.)	aerial application in AR, GA, LA, MS, OK, and TX. Begin
Liver Spot (Gnomonia spp.)		application when first leaves are showing and repeat
Powdery Mildew (Microsphaera spp.)		at 3- to 4-week intervals until shuck split.
Scab (Fusicladium spp.)		
Stem End Blight (Botryosphaeria spp.)		
Zonate Leaf Spot (Cristulariella spp.)		

# Restrictions:

- **DO NOT** spray after shuck split.
- DO NOT apply more than 2.5 lbs. (2.13 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 3 days

# **PISTACHIOS**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate per Acre	Application Instructions	
Shoot Blight (Botrytis spp.,	1.2 - 1.6 lbs.	Apply at bloom. Apply in a minimum of 100 gals. by ground or 20 gals.	
Botryosphaeria spp.)	(1.02 – 1.36 lbs. a.i.)	per acre by air. For aerial application, fly over every row or center.	

# Restrictions:

- DO NOT apply more than 1.6 lbs. (1.36 lbs. a.i.) Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 0 days
- Restricted-Entry Interval (REI): 3 days

# **PLUMS/PRUNES**

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate		Application Instructions	
	Per Acre	Per 100 Gals.		
Black Knot (Dibotryon spp.)	0.8 - 1.2 lbs.	0.4 lb.	Apply at pre-bloom, petal fall, and at first, second, and third	
Blossom Blight (Monilinia spp.)	(0.68 – 1.02	(0.34 lb. a.i.)	cover spray at 10- to 14-day intervals.	
Brown Rot (Monilinia spp.)	Ibs. a.i.)			
Leaf Spot (Coccomyces spp.)			For Leaf Spot, make one spray 14 - 21 days after harvest.	
Fruit Brown Rot (Monilinia spp.)	0.8 - 1.2 lbs.	0.4 lb.	Apply at early bloom (green tip). Make a second application	
	(0.68 – 1.02	(0.34 lb. a.i.)	at full bloom. In addition, apply 1 or 2 sprays starting 3 weeks	
	Ibs. a.i.)		before harvest. If needed under severe disease pressure,	
	[(In California,		apply additional sprays at 10- to 14-day intervals between full	
	use the		bloom and final pre-harvest spray.	
	higher rate.)]			
Restrictions:				

- DO NOT apply more than 3.3 lbs. (2.81 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per acre per year.
- Pre-harvest Interval (PHI): 1 day
- Restricted-Entry Interval (REI): 2 days
- Refer to the **RESISTANCE MANAGEMENT** section for additional instructions.

# **CONIFER DIRECTIONS**

CONIFERS[\*]

Diseases	Sharda Thiophanate-Methyl 85% WDG Rate		Application Instructions	
Diseases	Per Acre	Minimum Gallonage	Application instructions	
Tip Blight (Diplodia	56 oz.	13 oz. (0.8 lb. a.i.) (0.68	Apply at bud break. Repeat 10 - 14	
spp.)	(3.5 lbs. product)	lb. a.i.) product per acre	days later, just before needles	
	(2.98 lbs. a.i.)	applied in spray solution	emerge from sheath; repeat again 10	
		at a rate of 100 gals. per	- 14 days after needle emergence.	
		acre		
Swiss Needle Cast	56 oz.	13 oz. (0.8 lb. a.i.) (0.68	Apply initially in early May. Repeat at	
(Phaeocryptopus	(3.5 lbs. product)	lb. a.i.) product per acre	4-week intervals.	
spp.)	(2.98 lbs. a.i.)	applied in spray solution		
Rhabdocline Needle		at a rate of 50 gals. per		
Cast		acre		
Add a spreader/sticker t	to improve coverage	e. Use minimum gallonage w	vith mist-blower types of sprayers and	
higher gallonage with co	onventional sprayer	S.		
110001101101				
			for diluted sprays.	
		S		
	California.]			
_	-		Wet seedling roots in clean water;	
(Scirrhia spp.)			then apply <b>Sharda Thiophanate</b> -	
			Methyl 85% WDG/kaolinite mixture	
			to wet roots.	
	-		Thoroughly cover seedling roots with	
Rhizoctonia Root Rot			Sharda Thiophanate-Methyl 85%	
			WDG/kaolinite slurry.	
		slurry.		
Restrictions:				
<ul> <li>DO NOT exceed maximum use rates rate per acre, including those for diluted sprays.</li> </ul>				
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 32°F.				
<ul> <li>This product does not control Pythium spp. or Phytophthora spp.</li> </ul>				
[*Not approved for use in	California.]			
	swiss Needle Cast (Phaeocryptopus spp.) Rhabdocline Needle Cast Add a spreader/sticker thigher gallonage with continuous expression of the continuous expression	Tip Blight (Diplodia spp.)  Swiss Needle Cast (Phaeocryptopus spp.) Rhabdocline Needle Cast (2.98 lbs. a.i.)  Add a spreader/sticker to improve coverage higher gallonage with conventional sprayer  Restrictions: DO NOT exceed maximum use rates rae No Not graze livestock in treated area Restricted-Entry Interval (REI): 12 hour [*Not approved for use in California.]  Brown Needle Blight (Scirrhia spp.)  Fusarium and Rhizoctonia Root Rot  Restrictions: DO NOT exceed maximum use rates rae on Not exceed maximum use rates rae specific	Tip Blight (Diplodia spp.)  Swiss Needle Cast (2.98 lbs. a.i.)  Rhabdocline Needle Cast (3.5 lbs. product)  Rhabdocline Needle Cast (2.98 lbs. a.i.)  Rhabdocline Needle Cast (2.98 lbs. a.i.)  Restrictions:  Do Not exceed maximum use rates rate per acre, including those Do Not apply mixture to seedling foliage.  Fusarium and Rhizoctonia Root Rot (2.98 lbs. a.i.)  Restrictions:  Do Not exceed maximum use rates rate per acre, including those (3.6 oz./9.5 oz. (0.05/0.59 lb.) (0.0425/0.502 lb. a.i.) dry kaolinite clay, plus enough water to make a slurry.  Restrictions:  Do Not exceed maximum use rates rate per acre, including those (3.6 oz./50 oz. (0.1/3.00 lbs.) (0.085/2.55 lbs. a.i.) kaolinite clay, plus enough water to make a slurry.  Restrictions:  Do Not exceed maximum use rates rate per acre, including those on than 32°F.  This product does not control Pythium spp. or Phytophthora spp.	

# HORTICULTURAL APPLICATIONS GREENHOUSE, NURSERY, AND LANDSCAPE DIRECTIONS

**Sharda Thiophanate-Methyl 85% WDG** provides broad-spectrum disease control on containerized woody, flowering, herbaceous, and tropical foliage ornamental plants, trees, and turf grasses.

#### **Restrictions:**

- Not for homeowner use.
- **DO NOT** tank mix **Sharda Thiophanate-Methyl 85% WDG** with copper-containing materials or with highly alkaline pesticides including Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied.
- **DO NOT** use fruit or nuts from trees treated with this product as food.
- **DO NOT** apply to home orchards or backyard fruit trees after fruit set.
- **DO NOT** use this product on the following plants: Swedish Ivy (Nephrolepis exaltata), Boston Fern (Plectranthus australis), and Easter Cactus (Hatiora gaertneri).

Make applications of **Sharda Thiophanate-Methyl 85% WDG** with ground equipment using sufficient spray volume to provide thorough coverage. Under conditions of severe disease pressure or when application intervals are shorter than 14 days due to persistent rainfall, use the higher concentration or rates provided in this label. Consult your local State Extension Service specialist for application schedule.

IMPORTANT: If specified treatments of Sharda Thiophanate-Methyl 85% WDG are ineffective, a tolerant strain of fungus may be

present. Consult your Sharda USA LLC representative or distributor, or your local State Agricultural Experiment Station for advice on prompt use of some other labeled fungicide.

Sharda Thiophanate-Methyl 85% WDG provides broad-spectrum control of many foliar, stem, and below-ground diseases. Apply Sharda Thiophanate-Methyl 85% WDG 14 - 21 days prior to appearance of a particular disease and at the very latest, upon first sign of disease. Apply at spray intervals ranging from 7 - 14 days with 14 days being for preventative treatments and the 7-day interval for times when disease development is likely. For hard-to-wet foliage, an acceptable wetting agent may be added to the spray tank to increase product efficacy. Use of a spreader/sticker is suggested when excessive and repeated foliar wetting occurs. Sharda Thiophanate-Methyl 85% WDG may be used to control listed diseases on noncommercial fruit and nut trees.

**Sharda Thiophanate-Methyl 85% WDG** 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, make 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 2 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.

Plant Type	Including:	
Herbaceous Bedding	Ageratum, Begonia, Canna, Coleus, Dahlia, Dusty Miller, Foxglove, Fuchsia, 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 APPLICATIONS**

#### Restrictions:

- Maximum Single Application Rates
  - Ornamentals: DO NOT exceed the maximum single application rate of 3.5 lbs. Sharda Thiophanate-Methyl 85% WDG per acre (3 lbs. thiophanate-methyl per acre).
  - **Cut Flowers: DO NOT** exceed the maximum single application rate of 0.59 lb. **Sharda Thiophanate-Methyl 85% WDG** per acre (0.5 lb. thiophanate-methyl per acre).
- Seasonal Maximum Application
  - All Ornamentals: DO NOT apply more than 353 lbs. of Sharda Thiophanate-Methyl 85% WDG per acre per year (300 lbs. thiophanate-methyl per acre per year).
- **DO NOT** use this product on the following plants: Swedish Ivy (Nephrolepis exaltata), Boston Fern (Plectranthus australis), and Easter Cactus (Hatiora gaertneri).

# **Hydraulic Application Mixing Instructions**

Add the required amount of **Sharda Thiophanate-Methyl 85% WDG** 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 **Sharda Thiophanate-Methyl 85% WDG** per 100 gals. of water for the prevention and control of the diseases shown in the following **Foliar Diseases** table.

# **Adjuvants**

Where rainfall and/or overhead irrigation is the normal, use of a compatible spreader/sticker is suggested. Where wetting of foliage is difficult, use a compatible wetting agent.

# **Plant Types and Diseases Controlled**

Diseases	Plant Types	
Anthracnose	Woody ornamentals, shade trees*	
Ascochyta Blight	Herbaceous ornamentals	
Black Spot	Roses	
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	
Entomosporium Leaf Spot	Woody and herbaceous ornamentals	
Fusicladium Leaf Scab	Woody and herbaceous ornamentals	

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Gray Mold (Botrytis spp.)	Woody and herbaceous ornamentals	
Ovulinia	Azalea, rhododendron**	
Phomopsis Blight	Woody and herbaceous ornamentals	
Pine Tip Blights	Woody plants	
Powdery Mildew	Woody and herbaceous ornamentals	
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	
Venturia Leaf Scab	Woody and herbaceous ornamentals	
	•	

<sup>\*</sup>Begin at bud and make 2 or 3 additional applications at 10- to 14-day intervals.

# **Foliar Diseases**

Diseases/Pathogens Controlled	Concentration Rate of Sharda Thiophanate-Methyl 85% WDG per 100 Gals.	Application Instructions
Anthracnose (Colletotrichum)	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	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 rosae)	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	Apply early summer or at first sign of disease. Repeat application every 7 - 14 days as needed during disease period.
Brown Rot and Blight (Monilinia, Sclerotinia, Whetzellinia)	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	Apply late spring or at first sign of disease. Repeat application every 7 - 14 days as needed during the disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	Apply as buds break. Repeat application every 7-14 days during disease period. Effective control requires coverage during expansion. Rotations with chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights caused by: Ascochyta, Blumeriella, Botrytis, Cercospora, Coccomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	Make applications when disease symptoms first appear. Repeat every 7 - 14 days during disease period. Rotations with chlorothalonil can be used.
Ovulinia Blight	4.8 - 9.6 oz. (0.3 – 0.60 lb.) (0.26 – 0.51 lb. a.i.)	Apply as flowers open. Repeat every 7 - 14 days during disease period.
Powdery Mildews (Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca)	4.8 - 9.6 oz. (0.3 – 0.60 lb.) (0.26 – 0.51 lb. a.i.)	Apply when disease first appears and repeat application every 7 - 14 days. Rotations with other effective products can be used.
Rust Diseases caused by: Puccinia, Gymnosporangium, Uromyces	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	Apply late spring or when symptoms first appear. Repeat applications every 7 - 14 days during disease period. Make rotations with other effective products.
Tip Blight of Pine (Sphaeropsis sapinea, Diplodia pinea)	7.2 - 9.6 oz. (0.45 – 0.60 lb.) (0.38 – 0.51 lb. a.i.)	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)	9.6 - 19.2 oz. (0.6 – 1.2 lbs.) (0.51 – 1.02 lbs. a.i.)	Apply when disease symptoms first appear. Repeat applications every 7 - 14 days during disease period.

# **SOIL DRENCH APPLICATIONS**

#### Restrictions

• DO NOT apply to plug trays or seedling flats at time of seeding.

# **Mixing Instructions**

Add required amount of **Sharda Thiophanate-Methyl 85% WDG** 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.

<sup>\*\*</sup>Begin treatment as flowers open. Addition of a spray surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants including roses.

#### **Application Rates and Timing for Disease Control**

Use 4.8 - 9.6 oz. (0.3 – 0.6 lb.) (0.26 – 0.51 lb. a.i.) of **Sharda Thiophanate-Methyl 85% WDG** per 100 gals. of water. Apply as a drench (0.3 lb) (0.26 lb. a.i.) or heavy spray at the rate of 0.5 - 2 pints per square foot (100 gals. per 400 - 1,600 sq. ft.). For small pots and shallow flats up to 4 inches in size, use 4.8 oz. per 100 gals. applied at 1 pint. For containers and pots 4 inches or larger, refer to the following table for the volume to apply. Repeat applications may be made at 4- to 8-week intervals depending on disease presence and conditions for disease development.

Comtain on True	Volume to Apply/Container	
Container Type	1 Pt./Sq. Ft. Rate	2 Pts./Sq. Ft. Rate
4 inch	1.2 fl. oz.	-
5 inch	1.5 fl. oz.	-
6 inch	-	3.9 fl. oz.
7 inch	-	5.1 fl. oz.
8 inch	-	6.6 fl. oz.
9 inch	-	8.4 fl. oz.
10 inch	-	10.5 fl. oz.

For containers larger than 10 inches, a drench volume of 2.5 - 3 pts. per sq. ft. of surface area may be required.

#### **Plant Types**

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

#### **Soil Diseases Controlled**

Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.

Note: Pythium, Phytophthora, and Cylindrocladium spathiphyllum are not controlled by Sharda Thiophanate-Methyl 85% WDG.

# **PLANT DIP TREATMENT**

#### **Mixing Instructions**

Mix as described in the **FOLIAR SPRAY APPLICATIONS** and **SOIL DRENCH APPLICATIONS** sections. Maintain continuous agitation during application.

# **Application Concentration and Dipping Time**

- Plants or Cuttings: Use 7.2 9.6 oz. (0.45 0.60 lb.) (0.38 0.51 lb. a.i.) of Sharda Thiophanate-Methyl 85% WDG per 100 gals. of water. Immerse plants or cuttings for 10 15 minutes, remove, and allow to drain and dry. Wear protective clothing as described under the PERSONAL PROTECTIVE EQUIPMENT section.
- Bulbs, Corms, Tubers, and Rhizomes: Use 9.6 19.2 oz. (0.60 1.20 lb.) (0.51 1.02 lbs. a.i.) of Sharda Thiophanate-Methyl 85% WDG per 100 gals. of water. Soak cleaned bulbs for 15 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**

Propagated units of woody, herbaceous, flowering, and tropical foliage plants. Bulbs, corms, tubers, and rhizomes of plants including but not limited to Caladium, Easter Lily, Tulip, Gladiolus, Daffodil, and Iris.

#### **Diseases Controlled**

Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, and Thielaviopsis.

# **TURF APPLICATIONS**

**Sharda Thiophanate-Methyl 85% WDG** may be used against certain foliar and soil diseases for use on all turf types including golf course greens, tees and fairways, athletic fields, cemeteries, parks, and commercial and home lawns. For use only by certified applicators or those under their immediate supervision. **Sharda Thiophanate-Methyl 85% WDG** may be used both preventatively and curatively and is not phytotoxic.

# Restrictions:

- Not for homeowner use.
- DO NOT apply with fixed wing or rotary aircraft.
- DO NOT use Sharda Thiophanate-Methyl 85% WDG on turf being grown for sale or other commercial uses including sod.
- DO NOT graze animals on treated turf.
- DO NOT feed clippings to livestock or poultry.

#### **Use Sites and Maximum Application Rates**

Site	Maximum Single Application Rate of Sharda Thiophanate-Methyl 85% WDG per Oz./1,000 Sq. Ft.	Maximum Yearly Application Rate of Sharda Thiophanate-Methyl 85% WDG Oz./1,000 Sq. Ft.
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Golf Course green/tees/aprons	3.5 (0.22 lb. a.i.) (0.19 lb. a.i.)	9.2 (0.58 lb. a.i.) (0.49 lb. a.i.)
Golf Course Fairways (Except Florida)	2.4 (0.15 lb. a.i.) (0.13 lb. a.i.)	2.4 (0.15 lb. a.i.) (0.13 lb. a.i.)
Golf Course Fairways (Florida only)	1.2 (0.075 lb. a.i.) (0.064 lb. a.i.)	1.2 (0.075 lb. a.i.) (0.064 lb. a.i.)
Residential and Public areas (home	1.2 (0.075 lb. a.i.) (0.064 lb. a.i.)	4.6 (0.29 lb. a.i.) (0.24 lb. a.i.)
lawns, parks, athletic fields, schools,		
day care centers)		

# **Mixing Instructions**

Add the required amount of **Sharda Thiophanate-Methyl 85% WDG** 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 prepared.

# **Turf Application Directions**

Apply **Sharda Thiophanate-Methyl 85% WDG** 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 1.5 - 2.5 gals. per 1,000 sq. ft. of turf area. When treating golf greens, always treat aprons and approaches to golf greens.

# **Turf Types**

All cool-season and warm-season grasses (including but not limited to Bentgrass, Bermudagrass, Bluegrass, Fescue, Ryegrass, St. Augustinegrass, and Zoysiagrass) or their mixtures.

Diseases Controlled	Sharda Thiophanate- Methyl 85% WDG Rate per 1,000 Sq. Ft.*	Application Instructions
Anthracnose (Colletotrichum graminicola)	1.2 - 2.4 oz. (0.075 – 0.15 lb.) (0.064 – 0.13 lb. a.i.)	Apply when disease first appears. Make additional applications at 14-day intervals as needed. Allow spray to dry on leaves with no watering in.
	(2.4 - 3.6 oz.)** (0.15 – 0.225 lb.) (0.13 – 0.19 lb. a.i.)	
Dollar Spot (Sclerotinia homoeocarpa) Copper Spot (Gloeocercospora sorghi) Brown Patch and Zoysia Patch (Rhizoctonia solani) Red Thread (Laetisaria fuciformis)	1.2 - 2.4 oz. (0.075 – 0.15 lb.) (0.064 – 0.13 lb. a.i.)	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)	1.2 - 2.4 oz. (0.075 – 0.15 lb.) (0.064 – 0.13 lb. a.i.)	Only for those areas where snow cover is not present the entire winter. Apply <b>Sharda Thiophanate-Methyl 85% WDG</b> 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 the second spray dry on leaf surfaces with no watering in. Minimum spray interval is 14 days.
Gray Leaf Spot (Pyricularia grisea)	2.4 - 3.6 oz. (0.15 – 0.225 lb.) (0.13 – 0.19 lb. a.i.)	Apply when conditions are favorable for disease development. Continue at 14-day intervals. Let the spray dry on leaves with no watering in.
Summer Patch (Magnaporthe poae)	2.4 - 3.6 oz. (0.15 – 0.225 lb.) (0.13 – 0.19 lb. a.i.)	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 2 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)	2.4 - 3.6 oz. (0.15 – 0.225 lb.) (0.13 – 0.19 lb. a.i.)	Make 2 applications at 14-day intervals beginning applications when the disease first appears.
Stripe Smut (Ustilago striiformis)	2.4 - 3.6 oz. (0.15 – 0.225 lb.) (0.13 – 0.19 lb. a.i.)	Make 2 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 **Use the $2.4$ - $3.6$ oz. $(0.15-0.225$ lb.) $(0.13-0.225$ lb.)		

# STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

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. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Improper disposal of unused pesticide, spray mixture, or rinse water 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:**

[[Nonrefillable Outer Bag:] Do not reuse or refill the outer bag. Completely empty bag into application equipment. Offer bag for recycling if available. If recycling is not available, then 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.]

[[Nonrefillable Plastic Containers (Capacity Equal to or Less Than 50 Pounds):] Nonrefillable container. DO NOT reuse or refill this container. Triple rinse container (or equivalent) 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 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. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. DO NOT burn, unless allowed by State and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

[[Nonrefillable Plastic Containers (Capacity Greater Than 50 Pounds):] Nonrefillable container. DO NOT reuse or refill this container. Triple rinse container (or equivalent) 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. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

[[Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):] Nonrefillable container. DO NOT reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

# CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

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