

228-652

5/17/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Danielle A. Larochelle  
Nufarm Americas, Inc.  
501 Cascade Point Lane, Suite #103  
Cary, NC 27513

MAY 17 2011

Subject: Application for Pesticide Notification (PRN 2007-4)  
Submission date: 4/21/2011  
Product Name: Nufarm T-Methyl 4.5 F Fungicide  
EPA Reg. No.: 228-652  
EPA Decision Number: 448260

Dear Ms. Larochelle,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action(s) requested fall within the scope of PRN 2007-4.

The Agency acknowledges the additional container recycling statement and the clarification on container size of the Nonrefillable containers 5 gallons or less in the *Container Disposal* Section of *Storage and Disposal*. The Agency also acknowledges the addition of container handling information for refillable containers larger than 5 gallons. Lastly, the Agency acknowledges the addition of refillable container classification and complete container handling statements for that classification.

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Erin Malone at 703-347-0253 or me at 703-308-3194.

Sincerely,

Shaja B. Joyner  
Product Manager 20  
Fungicide Branch  
Registration Division (7504P)

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Please read instructions on reverse before completing form.

Form Approved,OMB No. 2070-0060, Approval expires 05-31-98

 <b>EPA</b> United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other:</b>	OPP Identifier Number .
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**Application for Pesticide - Section I**

1. Company/Product Number <b>228-652</b>	2. EPA Product Manager <b>Shaja B. Joyner</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Nufarm T-Methyl 4.5 F Fungicide</b>	PM# <b>20</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>NUFARM AMERICAS, Inc.</b> <b>150 Harvester Drive, Suite 200</b> <b>Burr Ridge, IL 60527</b> <input type="checkbox"/> Check if this is a new address	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

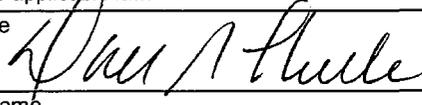
**Notification per PR Notice 2007-4** - Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Contact:** Danielle Larochelle, Nufarm Americas Inc, 501 Cascade Point Lane, Suite # 103, Cary, NC 27513. Tel: 919-655-0701; email: danielle.larochelle@us.nufarm.com

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.    No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.    No. per container	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <p style="text-align: center;">2.5 gal, 250 gal.</p>		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name <b>Danielle A. Larochelle</b>	Title <b>Registration Manager</b>	Telephone No. (Include Area Code) <b>919-655-0701</b>
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>      
2. Signature 	3. Title <b>Registration Manager</b>	
4. Typed Name <b>Danielle A. Larochelle</b>	4. Date <b>April 21, 2011</b>	





# Nufarm T-Methyl 4.5 F Fungicide

**ACTIVE INGREDIENT:**

Thiophanate-methyl (Dimethyl [(1,2-phenylene)bis  
(iminocarbonothioyl)]bis[Carbamate])\* ..... 46.2%

**OTHER INGREDIENTS:** ..... 53.8%

**TOTAL:** ..... 100.0%

\*Also known as Dimethyl 4,4'-o-phenylenebis-[3-thioallophanate]  
Contains 4.5 pounds thiophanate-methyl per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

See inside label booklet for additional FIRST AID and PRECAUTIONARY STATEMENTS

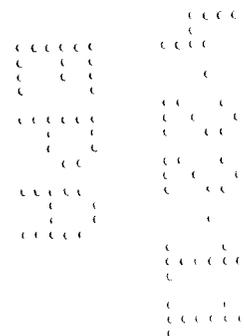
EPA Reg. No. 228-652

EPA Est. No.

Manufactured for:  
Nufarm Americas Inc.  
150 Harvester Drive  
Burr Ridge, IL 60527

Nufarm T-Methyl 4.5 F Fungicide contains thiophanate-methyl, the active ingredient used in Topsin® 4.5FL.

Net Contents:



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION/PRECAUTION**

Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. 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.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, and viton ≥ 14 mils. 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,
- Chemical-resistant apron

**All other mixers and loaders and applicators must wear:**

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand held equipment, and
- Chemical-resistant apron for mixers, loaders and other handlers exposed to the concentrate.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. 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.

<b>FIRST AID</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <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>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration,</li> </ul>

	<ul style="list-style-type: none"> <li>preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <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>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <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>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

**ENVIRONMENTAL HAZARDS**

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

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box 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 following restricted entry intervals (REI):

Check the Application Directions table for the correct REI for each crop. If the table does not list an REI for a particular crop, the REI is 12 hours.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water), is:

- Coveralls 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

**GENERAL INFORMATION**

Apply this product with ground or aerial equipment, using sufficient volume of spray to provide thorough coverage. Continuous agitation is required to keep the material in suspension. Do not tank mix this product with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service instructions for application schedules.

Optimum disease control occurs when fungicides are applied in a preventative spray program prior to fungal infection. Some diseases are better controlled when several different MOA (Modes of Action) fungicides are tank-mixed for the application. Check your area University or Extension Recommendations Guide for specifics.

Use the fluid oz./acre rate for concentrate sprays (less than 400 gallons on apples, less than 300 gallons on stonefruit). Use the fluid oz./100 gal rate for dilute ground applications. For aerial applications, use a minimum of 3 gallons/A (5 gallons/A in California) for row crops, and a minimum of 10 gallons/A for tree crops. Higher spray volume will generally result in better coverage and better disease control.

**Use on non-bearing apples, pecans, cherries, and peaches:** Use this product for control of the leaf diseases listed on the label for these crops during the non-bearing years of new plantings, and on nursery stock. All use directions and limitations must be followed, except for the PHI, which is not applicable. Begin applications as disease is first observed. Tank mix with a protectant fungicide for resistance management.

Chemigation instructions follow. 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, tank mix this product with a fungicide of different chemistry, and/or alternated with a fungicide of different chemistry at each application. If after using this product as specified in this label, the treatment is not effective, a tolerant or resistant strain of fungi is likely present. Discontinue the use of this product for at least one season. Do not use products containing thiabendazole or other products containing thiophanate-methyl as substitutes for this product, as they are of similar chemistry and will contribute to the development of resistance. As long as these precautions are followed, this product can be useful for disease control, even if resistant strains are present.

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### MIXING INSTRUCTIONS

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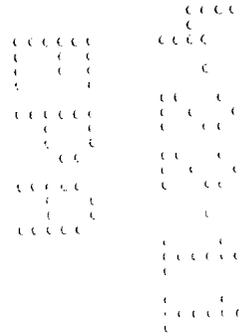
Always start with a thoroughly clean spray tank and spray system before using this product.

Fill spray tank to half full, start agitation. Be sure to shake product container well before pouring to measure. Slowly pour required amount into spray tank, then finish filling tank with water, all the while maintaining agitation.

Tank mix this product with other pesticides to broaden spectrum of control. Using instructions above, add products in order of formulation type: dry flowables (DF), wettable powders (WP), and wettable dry granules (WDG) should be added first; then flowables (F and SC); then emulsifiable concentrates (EC) last. As each product is added to the tank, be sure it is completely dispersed before adding any other product to the mix. Maintain agitation throughout mixing and application processes.

If there is any question as to the compatibility of the components, always perform a jar test with proportional amount of each product, using water from the actual use source.

Always read and follow label direction of all products. The most restrictive label language will apply. Do not mix more spray solution than you plan to apply that day.



**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Almonds	Brown rot Blossom blight  Scab	<i>Monilinia</i> sp.  <i>Cladosporium</i> sp.	30 fl. oz. (1.05 lbs. ai/A)  Maximum annual application rate - 60 fl. oz. per acre (2.1 lbs. ai/A)		Apply at pink bud and petal fall.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.  Preharvest Interval: 7 days
Apples	Apply scab  Black pox – Not for this use in California  Flyspeck  Powdery mildew  Sooty blotch  Black rot  Brooks fruit spot  White rot – Not for this use in California	<i>Venturia</i> sp.  <i>Helminthosporium papulosum</i>  <i>Zygothia</i> sp.  <i>Podosphaera</i> sp.  <i>Gloeodes</i> sp.  <i>Botryosphaeria</i> sp.  <i>Mycosphaerella</i> sp.  <i>Botryosphaeria</i> sp.	20 fl. oz. (except CA) (0.7 lbs. ai/A)  30 fl. oz. (CA Only) (1.0 lbs ai/A)  Maximum annual application rate – 80 fl. oz. per acre (2.8 lbs ai/A)	5 fl. oz.  7.5 fl. oz.	Apply at 5- to 10-day intervals from green tip through petal fall; continue at 7- to 14-day intervals in cover sprays.  Follow resistance management guidelines under Directions For Use.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest Interval: 24 hours
Beans  Not for this use in California; see below for CA directions for use	Gray mold  White mold  Anthracnose	<i>Botrytis</i> sp.  <i>Sclerotinia</i> sp.  <i>Colletotrichum</i>	30-40 fl. oz. (1.0-1.4 lbs ai/A)  Use a maximum of 80 oz. of product per acre (2.8 lbs. A.I.) per crop cycle with a minimum 7-day spray interval.		Make first application when 10%-30% of plants have at least one open bloom, and/or conditions are favorable for disease development.  For green beans, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.  For dry beans, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.  Pre-harvest Interval: 14 days for snap beans, 28 days for lima beans and dry beans.

## APPLICATION DIRECTIONS TABLE

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Beans For use in CA only	Gray mold White mold Anthracnose	<i>Botrytis</i> sp. <i>Sclerotinia</i> sp. <i>Colletotrichum</i>	30-40 fl. oz. (1.0-1.4 lbs ai/A)  OR  20-30 fl. oz. (0.7-1.0 lbs ai/A)		Apply once at 50% to 70% of full bloom.  OR  Apply twice with the first application at 10%- 30% of full bloom and a second application at 4 to 7 days later or at peak bloom.  For green beans, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.  For dry beans, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.  Pre-harvest interval: 14 days for snap beans, 28 days for lima beans and dry beans.
Canola (ND, MN, MT-East of Interstate 15 only)	White mold Sclerotinia stem rot	<i>Sclerotinia</i> sp. <i>Sclerotinia sclerotiorum</i>	20-40 fl. oz (0.7-1.4 lbs ai/A)  OR  20 fl. oz. (0.7 lbs ai/A)		20-40 fl. oz. can be used in a single application applied once at 20%-50% flowering.  OR  Applications of 20 fl. oz. can be used twice with the first application being made at 20%-30% flowering and the second application being made at 40%-50% flowering.  Thorough coverage of the flowers is very important to control White mold.  Do not apply more than 40 fl. oz. of this product (1.4 lbs. thiophanate- methyl active ingredient) per acre per season.  Preharvest Interval: 40 days
Cucurbits (Cucumbers, melons, summer and winter squash, pumpkins and watermelons)	Do not apply more than 60 fl. oz. product (2.1 lbs. A.I.) per acre per season from any combination of application timings. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Preharvest Interval: 1 day.				
	Acermonium/ Cephalosporium  Hypocotyl rot		10 fl. oz. (0.35 lbs ai/A)		Apply in-furrow, on top of the seeds at planting. Do not use less than 10 gallons of water per acre.

## APPLICATION DIRECTIONS TABLE

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
General Information: Follow resistance management guidelines under Directions for Use.	Anthracnose – Not for this use in California	<i>Colletotrichum</i> sp.	10 fl. oz. (0.35 lbs ai/A) for ground or aerial applications		Begin applications when plants begin to run or when disease first appears, and repeat at 7-14 day intervals or as needed.  For Target spot, use at 7-day intervals as needed.
	Gummy stem blight – Not for this use in California	<i>Didymella</i> sp.			
	Powdery mildew Target spot – Not for this use in California	<i>Erysiphe</i> sp. <i>Corynespora</i> sp.			
	Belly rots – Not for this use in California	<i>Rhizoctonia</i> / <i>Fusarium</i> sp.	10 fl. oz. (0.35 lbs. ai/A)		Apply in sufficient volume to allow runoff to the soil. Will not control <i>Pythium</i> sp.
	Suppression of Vine decline Charcoal rot	<i>Monosporascus cannonballus</i> <i>Macrophomina</i> sp.	10 fl. oz. (0.35 lbs ai/A)		Apply through buried drip irrigation (chemigation) to the root zone. For disease suppression, apply at 14-day intervals, beginning at emergence and continuing to harvest. Applications weekly or biweekly, beginning 4-6 weeks prior to harvest will also offer suppression, but not as effective as a season-long program.
Garlic	Penicillium clove rot			20 fl. oz.	Completely immerse garlic cloves in suspension for at least 5 minutes.  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.

## APPLICATION DIRECTIONS TABLE

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Onions (in-Furrow)  Not for this use in California	White rot	<i>Sclerotinia</i> sp.	1 fl. oz./1000 ft. of row (with 12 inch row spacing)  OR  40 fl. oz. (1.4 lbs ai/A) per acre broadcast  Do not apply more than 40 fl. oz. this product /A/year (1.4 lbs ai/A)		Apply this product by spraying directly into the open furrow at the time of planting seed, sets or bulbs. Not for this use through any type of irrigation system.
Peanuts	Leaf spot Rust Limb rot Web blotch	<i>Cercospora</i> spp. <i>Puccinia</i> <i>Rhizoctonia</i> <i>Ascochyta</i>	10 fl. oz./acre (0.35 lbs ai/A)- single application  40 fl. oz./acre (1.4 lbs ai/A) seasonal maximum		Begin applications 35 days after planting or when disease first appears and repeat at 14 day intervals as needed.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 1 day.  Pre-harvest interval: 14 days  Do not use this product alone. Use only in combination with another non-benzimidazole fungicide.  Follow resistance management guidelines under Directions for Use.
Pecans	Scab Brown spot Downy spot Powdery mildew Liver spot Stem End blight Zonate leaf spot	<i>Fusicladium</i> sp. <i>Cercospora</i> sp. <i>Mycosphaerella</i> sp. <i>Microsphaerella</i> sp. <i>Gnomonia</i> sp. <i>Botryosphaeria</i> sp. <i>Cristulariella</i> sp.	20 fl. oz./acre (0.7 lbs ai/A)- single application  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum		Begin applications when first leaves are showing and repeat at 3-4 week intervals until shuck split.  Use the higher rates for trees over 30 feet tall and for aerial applications in Arkansas, Georgia, Louisiana, Mississippi, Oklahoma, and Texas.  Do not apply after shuck split.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.  Preharvest Interval: 24 hours

## APPLICATION DIRECTIONS TABLE

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Pistachios	Shoot blight	<i>Botrytis</i> , <i>Botryosphaeria</i>	30-40 fl. oz. (1.0-1.4 lbs ai/A)  Do not apply more than 40 fl. oz. product (1.4 lbs. A.I.)/A/ season.		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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days.
Potatoes  Not for this use in California	White mold	<i>Sclerotinia</i> sp.	20- 30 fl. oz. (0.7-1.0 lbs ai/A)  Do not apply more than 80 fl. oz. product (2.8 lbs. A.I.)/A/ season.		Make first application just prior to row closure. Repeat the application within 7-14 days and at 7-14 day intervals if conditions for disease development are favorable. <u>Thorough coverage</u> of the lower stems and branches is essential for disease control.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 21 days.  Tank mix with other fungicides labeled for early and late blight control. Do not apply by air for control of this disease on this crop.

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**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Soybeans	Anthracnose Brown spot Frogeye leaf spot	<i>Colletotrichum</i> sp. <i>Septoria</i> sp. <i>Cercospora</i> sp.	10-20 fl. oz. (0.35-0.7 lbs ai/A)		<p>Apply from full bloom to when pods are 1/8" to 1/4" 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" in length or when beans form in the pod. Use the high rate under severe disease pressure.</p> <p>For Seed Beans Only- for seed quality, make a single application at the high rate when beans form in the pod.</p> <p>Make one application at early bloom (R-1 to R-2 stage) followed by a second application 7-14 days later if conditions are favorable for continued disease pressure. Use a minimum of 5 gallons by air.</p> <p>Do not make more than 2 applications per year. Do not graze or feed treated vines to livestock.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p> <p>Pre-harvest interval: 21 days</p>
	Pod and stem blight  Purple seed stain         White mold	<i>Diaporthe</i> sp. and the imperfect stage, <i>Phomopsis</i> sp.  <i>Cercospora</i> sp.         <i>Sclerotinia</i> sp.	15-20 fl. oz. (0.53-0.7 lbs ai/A)    40 fl. oz./acre (1.4 lbs ai/A) seasonal maximum		
	Aerial blight (suppression)    Soybean rust	    <i>Phakopsora pachyrhiza</i>	20 fl. oz. (0.7 lbs ai/A)  40 fl. oz./acre (1.4 lbs ai/A) seasonal maximum		<p>Make initial application when disease threatens (before visual symptoms appear) and repeat 14-21 days later if needed. Tank mix with a DMI fungicide for soybean rust. Do not make more than 2 applications per year. Do not graze or feed treated vines to livestock.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p> <p>Pre-harvest interval: 21 days</p>

**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Stone-Fruits	General Info		Do not apply more than 80 fl. oz. of product (2.8 lbs. A.I.)/A/season.		Follow resistance management guidelines under Directions for Use.
Apricots	Brown rot blossom blight  Fruit brown rot	<i>Monilinia</i> sp.  <i>Monilinia</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum	10 fl. oz.	Apply at early bloom (red bud). Make a second application at full bloom.  In addition, for fruit brown rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14-day intervals between full bloom and final pre-harvest sprays.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day

**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Cherries	Brown rot blossom blight	<i>Monilinia</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)	10 fl. oz.	Apply at early bloom (early popcorn). Make a second application at full bloom.
	Fruit brown rot	<i>Monilinia</i> sp.	(In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum		In addition, for fruit brown rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14- day intervals between full bloom and final pre-harvest sprays.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day
	Cherry leaf spot	<i>Coccomyces</i> sp.	22.5-30 fl. oz. (0.79-1.0 lbs ai/A)	10 fl. oz.	Apply at petal fall or before when leaves first unfold, and at first, second and third cover sprays at 10- to 14-day intervals and one spray 14 to 21 days after harvest.  Pre-harvest interval: 1 day  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.
	Powdery mildew	<i>Podosphaera</i> sp. <i>Sphaerotheca</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum  PLUS  24-30 fl. oz. (0.8-1.0 lbs ai/A)	10 fl. oz.  PLUS  8-10 fl. oz.	Apply at early bloom (early popcorn). Make a second application at full bloom.  PLUS  Apply at shuck fall and first cover.  Pre-harvest interval: 1 day  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.

**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Nectarines	Brown rot blossom blight  Fruit brown rot	<i>Monilinia</i> sp.  <i>Monilinia</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum	10 fl. oz.	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development.  In addition, for fruit brown rot, apply 1 to 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure apply additional sprays at 10 to 14-day intervals between full bloom and final pre-harvest sprays.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day

**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Peaches	Brown rot Brown blight  Fruit brown rot	<i>Monilinia</i> sp.  <i>Monilinia</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum	10-15 fl. oz.	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development.  In addition, for fruit brown rot, apply 1 to 2 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10- to 14-day intervals between full bloom and final pre-harvest sprays.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day
	Peach scab	<i>Cladosporium</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum  PLUS  22.5-30 fl. oz. (0.79-1.0 lbs ai/A)	10-15 fl. oz.    PLUS  7-10 fl. oz.	Apply at early bloom (pink bud). Make a second application at full bloom if conditions favor disease development.    PLUS  Apply at shuck split and at first cover sprays.  Pre-harvest interval: 1 day  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.

**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Plums and Prunes	Brown rot Blossom blight	<i>Monilinia</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)	10 fl. oz.	Apply at early bloom (green tip). Make a second application at full bloom.
	Fruit brown rot	<i>Monilinia</i> sp.	(In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum		In addition, for fruit brown rot, apply 1 or 2 sprays starting 3 weeks before harvest. If needed under severe disease pressure, apply additional sprays at 10 to 14 day intervals between full bloom and final pre-harvest sprays.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day
	Black knot	<i>Dibotryon</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  60 fl. oz./acre (2.1 lbs ai/A) seasonal maximum	10 fl. oz.	Apply at pre-bloom, petal fall, and at first, second and third cover sprays at 10- to 14-day intervals.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day
	Leaf spot	<i>Coccomyces</i> sp.	20-30 fl. oz. (0.7-1.0 lbs ai/A)  (In CA use 30 fl. oz. of 1.0 lbs ai/A)  90 fl. oz./acre (3.2 lbs ai/A) seasonal maximum	10 fl. oz.	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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 2 days.  Pre-harvest interval: 1 day

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**APPLICATION DIRECTIONS TABLE**

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

CROP	DISEASES	SCIENTIFIC NAME	FLUID OZ./ACRE (LBS. AI/ACRE)	FLUID OZ./100 GAL	REMARKS
Strawberries	Fruit rot Leaf blight Leaf scorch Powdery mildew	<i>Botrytis</i> sp. <i>Dendrophoma</i> sp. <i>Diplocarpon</i> sp.	15-20 fl. oz. (0.53-0.7 lbs ai/A)  Do not apply more than 80 fl. oz. product (2.8 lbs. A.I.) per acre per year.		Begin application at early bloom and continue at 7 to 10 day intervals. Use the higher rate East of the Rocky Mountains and under conditions of severe disease pressure.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.  Preharvest Interval: 1 day
Sugarbeets	Cercospora leaf spot	<i>Cercospora</i> sp.	10-20 fl. oz. (0.35-0.7 lbs ai/A)  (In CA use 10 fl. oz. or 0.35 lbs ai/A)  Do not apply more than 60 fl. oz. product (2.1 lbs. A.I.)/A/season.		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.  Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 1 day.  Pre-harvest interval: 21 days
	Powdery mildew	<i>Erysiphe</i> sp.	10-20 fl. oz. (0.35-0.7 lbs ai/A)  Do not apply more than 60 fl. oz. product (2.1 lbs. A.I.)/A/season.		Not for this use in California.  Apply as soon as disease symptoms appear and repeat at 14-day intervals or as needed.  Do not enter or allow worker re-entry into treated areas during the restricted entry interval of 1 day.  Pre-harvest interval: 21 days

**FOR USE ON TRITICALE AND FALL-SEEDED WHEAT IN IDAHO, OREGON AND WASHINGTON ONLY**  
**(Not for use in California)**

DISEASES	OZ./ACRE	OZ./100 GAL	REMARKS
<p><i>Pseudocercospora</i> sp.  (Foot rot, Strawbreaker, Eye spot)</p>	<p>20 fl. oz. (0.7 lbs ai/A)</p> <p>Do not apply more than 20 fl. oz. product (0.7 lbs. A.I.)/A/season</p>		<p>Apply this product at the rate indicated in a single application by air or ground after tillering but before stem elongation has begun.</p> <p>Use sufficient water to obtain thorough coverage.</p> <p>Do not make more than one application per season.</p> <p>Do not cut for hay within 90 days of application.</p> <p>Do not allow livestock to graze in treated areas before harvest.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.</p>

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

**FOR USE ON CONIFERS  
(Not for use in California)**

CROP	DISEASES	LIMIT ACRE	RATE, MINIMUM GALLONAGE	REMARKS
Conifers (Pine) Austrian Red Scots Christmas Trees	Tip blight (Diplodia)	60 fl. oz.	20 fl. oz./A 100 gal./A	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 <i>Phaenocarpa</i> Rhabdocline needle cast	100 fl. oz.	20 fl. oz./A 50 gal./A	Apply initially in early May. Repeat at 4-week intervals.
<ul style="list-style-type: none"> <li>• Add a spreader/sticker to improve coverage.</li> <li>• Use minimum gallonage with mist-blower types of sprayers and higher gallonage with conventional sprayers.</li> <li>• Do not graze livestock in treated areas.</li> <li>• Maximum of 3.0 lbs ai/A per single application; 300 lbs ai/A per year.</li> </ul>				
CONIFERS (Seeding treatment) Longleaf	Brown needle blight <i>Scirrhia</i>	N/A	1 fl. oz./9.5 oz of dry Kaolinite clay for seedling roots	Wet seedling roots in clean water, then apply this product /kaolinite mixture to wet roots.
Loblolly Longleaf Slash	Fusarium and Rhizoctonia root rot	N/A	2 fl. oz./50 oz Kaolinite clay, plus enough water to make a slurry	Thoroughly cover seedlings roots with this product /kaolinite slurry.
<ul style="list-style-type: none"> <li>• Do not apply mixture to seedling foliage.</li> <li>• During treatment, avoid excessive drying of roots or exposure to temperatures greater than 90° F or less than 32°F.</li> <li>• This product does not control pythium or phytophthora.</li> </ul>				

**DIRECTIONS FOR USE THROUGH CHEMIGATION SYSTEMS**

**USE IN CALIFORNIA BY CHEMIGATION ONLY FOR BEANS, CUCURBITS (CUCUMBERS, MELONS, PUMPKINS, SQUASH), PEANUTS, SOYBEANS, AND STRAWBERRIES**

**General Instructions**

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move, 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 any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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

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

### **System Requirements**

System 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.

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

### **Application Instructions**

Observe the requirements in the System Requirements section above.

Apply this product 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 assure a uniform suspension.

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

Application of more than specified quantities of irrigation water per acre will decreased product performance.

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

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

Apply this product in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, causes a degradation of the pesticide, resulting in reduced performance and should be avoided.

### **Spray Preparation**

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

Prepare a suspension of this product 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 this product and then the remaining volume of water.

**Sprinkler Irrigation – Notes:**

Observe all System Requirements and application instructions above.

Set sprinkler system to deliver 0.1 to 0.25 inches of water per acre. Volume of water higher than this reduces efficacy. Start sprinkler and then uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. Inject the suspension of this product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. When treatment with this product has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop.

Do not apply when wind speed favors drift beyond the area intended for treatment. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control is a result.

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

**Drip (mini-micro Sprinklers, Strip Tubing, Trickle) Irrigation-Notes:**

Observe all system requirements and application instructions above. Use a pesticide supply tank.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in a dry, temperature controlled, secure, place.

**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 DISPOSAL:**

**[Nonrefillable Containers 5 Gallons or Less]**

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 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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**[Nonrefillable containers larger than 5 gallons]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure-rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

**[Refillable containers]**  
 Refillable container. Refill this container with pesticide 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 a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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