

66222-1

11/28/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

NOTIFICATION

NOV 28 2012

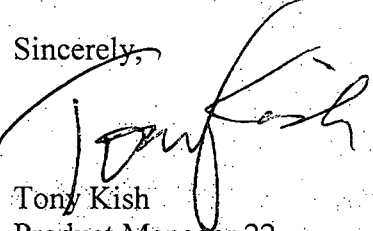
Ms Kristen B. Knox
Makhteshim Agan of North America, Inc
3120 Highwoods Blvd.; #100
Raleigh, NC 27604

Subject: Notification for label changes per PRN 98-10 and 2007-4: Storage and Disposal update, Warranty Statement update and other changes
Submission date: 10/18/12
Resubmission date: 11/27/12
Product Name: Captan 50WP
EPA Reg. No. 66222-1
Decision Number 471795

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 and 2007-4 dated 11/27/2012 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and 2007-4, and finds that the action(s) requested fall within the scope of PRN 98-10 and 2007-4. 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 call Banza Djapao at 703-305-7269 or via email at djapao.banza@epa.gov, or you may call me at 703-308-9443.

Sincerely,

Tony Kish
Product Manager 22
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 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-1	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Captan 50 WP	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. 3120 Highwoods Blvd #100 Raleigh, NC 27604 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. 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 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

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. 5 lb.	No. per container 10	<input type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
		If "Yes" Package wgt.	No. per container	<input checked="" type="checkbox"/> Other (Specify) poly bags	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 5 lb plastic jug, 30 lb. poly bag		5. Location of Label Directions <input checked="" type="checkbox"/> pull off instruction booklet	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Kelly Wall Powell	Title Regulatory Specialist	Telephone No. (Include Area Code) 919-256-9357
Certification 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 (Stamped)
2. Signature 	3. Title Product Registration Manager	
4. Typed Name Kristen B. Knox	5. Date November 27, 2012	

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United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-1	2. EPA Product Manager Marcel Howard	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Captan 50 WP	PM# 20	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. 3120 Highwoods Blvd #100 Raleigh, NC 27604 <input checked="" type="checkbox"/> Check if this is a new address	6. Expedited Review. 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.)

Alternate brand name notification: Captan GOLD 50 WP. Also updated Storage and Disposal language, warranty statement, and our address and contact phone number. This notification is consistent with the provisions of PRN 98-10 and EPA regulations at 40 CFR 152.46. 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 USC Sec. 1001 to willfully make any false statements to the EPA. I further understand that if this notification is not consistent with the terms of PRN 98-10 and 40 CFR 152.46, 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.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph Paper glued Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Kelly Wall Powell	Title Regulatory Specialist	Telephone No. (Include Area Code) 919-256-9357
Certification 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 (Stamped)
2. Signature 	3. Title Product Registration Manager	
4. Typed Name Kristen B. Knox	5. Date October 18, 2012	

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November 27, 2012

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. EPA, One Potomac Yard
2777 S. Crystal Drive, Room S-4900
Arlington, VA 22202

RE: Captan 50 WP (EPA Reg. No. 66222-1)
Notification of ABN and minor label changes

To Whom It May Concern:

Makhteshim Agan of North America, Inc. (MANA) is submitting this notification to:

1. Add the alternate brand name "Captan GOLD 50 WP"
2. Update the Storage and Disposal language, to match with the storage and disposal language approved on our other wettable powder products, Diazinon 50W, EPA #66222-10 and Thoinex 50W Insecticide, #66222-62
3. Update our warranty statement
4. Update our address and contact phone number.

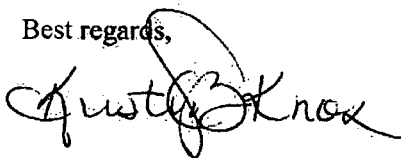
This notification is consistent with the provisions of PR Notice 98-10, PR Notice 2007-4 and EPA regulation 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, 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.

In support of this submission, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1);
- One annotated copy of the proposed label
- One clean copy of the proposed label.

If you have any concerns regarding this submission, please do not hesitate to contact me at e-mail: kknox@manainc.com or phone: 919-256-9337.

Best regards,



Kristen B. Knox
Product Registration Manager

www.manainc.com

F: (919) 256-9300
F: (919) 256-9337

3120 Highwoods Blvd.
Suite 100
Raleigh, NC 27604



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October 18, 2012

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In support of this submission, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1);
- One annotated copy of the proposed label
- One clean copy of the proposed label.

If you have any concerns regarding this submission, please do not hesitate to contact me at e-mail: kknnox@manainc.com or phone: 919-256-9337.

Best regards,

Kristen B. Knox
Product Registration Manager

www.manainc.com

P: (919) 256-8300
F: (919) 256-9308

3120 Highwoods Blvd.
Suite 100
Raleigh, NC 27604



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[Note to EPA label editor: This is the MASTER LABEL and is for Captan 50WP not packaged in Water Soluble Packets.] See SECONDARY LABEL at the end of the MASTER LABEL for Captan 50WP packaged in Water Soluble Packets.]

CAPTAN 50 WP

(Alternate Brand Name: Captan GOLD 50 WP)

- A Fungicide for Plant Disease Control

ACTIVE INGREDIENTS:	% BY WT.
Captan: N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide.....	48.93%
Related Derivatives.....	1.07%
INERT INGREDIENTS:	50.00%
	TOTAL 100.00%

EPA Reg. No. 66222-1

EPA Est. No. 11678-ISR-002

Manufactured for:
 Makhteshim Agan of North America, Inc.
 3120 Highwoods Blvd., Suite 100
 Raleigh, NC 27604

For PRODUCT USE Information Call 1-866-406-MANA (6262).

NET CONTENTS: 5 POUNDS

CAPTAN 50 WP is a microfine wettable powder for use in water as a spray for the control of certain fungal diseases of fruit and ornamental crops and as a soil treatment for the control of certain seed rots and damping-off diseases.

KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

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 style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |
| IF SWALLOWED: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER**

Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Do not get in eyes or on clothing. Do not breathe dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, and other handlers (including handlers participating in seeding and transplanting as part of root-dip or greenhouse-soil treatments must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves made of any waterproof material (except applicators driving ground motorized equipment)
- Chemical-resistant apron when mixing/loading, participating in dip treatments, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.
- In addition, a NIOSH-approved respirator with any N, R, P, or HE filter must be worn when mixing/loading, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate.

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

ENGINEERING CONTROLS STATEMENT: When handlers use closed systems or 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.

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

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. For PRODUCT USE Information Call 1-866-406-MANA (6262).

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of:

- 24 hours for strawberries, almonds, apples, apricots, cherries, nectarines, peaches, plums/fresh prunes
- 48 hours for blackberries, blueberries, grapes, and raspberries
- 48 hours for ornamentals

48 hours for soil treatments and root dips: For soil and greenhouse bench treatments and root dips, once the treatment and any seeding or transplanting tasks done as part of the treatment are complete, the 48-hour REI begins. Exception: Once the seeds or transplants are planted in the soil, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no contact with the soil subsurface.

EARLY ENTRY PPE:

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
- Protective eyewear
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Double Notification: Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas

Eye protection: To mitigate eye irritation concerns from post-application exposures, for at least seven days following the application of captan: 1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS- required decontamination site for workers entering the area treated with captan. 2. Workers must be informed orally, in a manner they can understand: that residues in the treated area may be highly irritating to their eyes, that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes, that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container that is located at the decontamination site, and how to operate the eyeflush container.

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.

For postharvest fruit dip use: Do not contact or allow others to contact the treated fruit until sprays have dried. Do not enter or allow others to enter until sprays have dried.

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label.

In order that pesticide residues on food and forage crops will not exceed federal tolerances, use only at recommended rates and intervals and do not apply closer to harvest than specified. Do not apply or allow to drift to adjoining food, fiber, or pasture crops. Drift of CAPTAN 50 WP onto sensitive crops (e.g., D'Anjou Pears) can cause severe phytotoxicity and crop loss.

Aerial application is prohibited.

SPRAY DRIFT LABELING

Do not allow this product to drift.

Foliar Spray Drift Management

Avoiding spray drift from foliar applications is the responsibility of the applicator. Similar to aerial spray drift, the interaction of many equipment- and-weather-related factors determine the potential for spray drift from foliar applications. To protect water resources, the applicator and the grower are responsible for considering all these factors when making decisions.

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles. Apply only when the wind speed is 2-10 mph at the application site.

For ground boom applications, do not apply with a nozzle height greater than 4 feet above the crop canopy.

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Consult State Agricultural Experiment stations or State Agricultural Extension Service for additional information as the time of applications needed will vary with the local conditions.

COMPATIBILITY AND PLANT SAFETY: CAPTAN 50 WP can be combined safely and effectively at recommended dosage rates with most commonly used fungicides and insecticides, with the exception of oil and strongly alkaline materials. Alkaline materials such as spray lime, lime-sulfur, and Bordeaux mixture will reduce the fungicidal activity of CAPTAN 50 WP. Do not apply CAPTAN 50 WP in combination with or immediately before or closely following oil sprays. Do not allow oil sprays on adjacent crops to drift onto crops which have been or will shortly be treated with CAPTAN 50 WP. The time factor governing the safe interval between CAPTAN 50 WP and oil sprays varies due to general climatic conditions, therefore, consult local agricultural spray programs and authorities to determine the proper timing. The use of spreaders which cause excessive wetting is not advised. Combinations with solvent formulations of organic phosphates should not be used. Combinations of CAPTAN 50 WP and sulfur should not be used on crops sensitive to sulfur. Used at high rates or in drenching sprays, CAPTAN 50 WP may cause a necrotic spotting of tender, immature leaves of certain varieties of apples, peaches, plums, and cherries. This type of injury is most likely to occur in the early cover sprays during long periods of warm, cloudy, humid weather. To avoid the hazard of leaf spotting under such conditions, use CAPTAN 50 WP and other spray materials at lowest recommended rates and avoid drenching trees.

Applications can be made by ground power equipment (including concentrate and semi-concentrate equipment). Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants. (Read compatibility and plant safety information).

For concentrate spray applications, apply the same amount of CAPTAN 50 WP per acre as would normally be applied for dilute spray applications. Apply concentrate sprays in sufficient water for coverage.

CHEMIGATION STATEMENT

Do not apply this product through any type of irrigation system.

GENERAL USE PRECAUTIONS

Except as specified, begin applications before or at first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, application can be made on the day of harvest. Maximum application is for a crop cycle. Crop cycle is defined as prebloom through postharvest. Apply the high rate and/or spray at shorter intervals when climatic conditions most favor disease(s). Apply the low rate and/or spray at larger intervals when climatic conditions least favor disease(s). If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

IMPORTANT: Read label carefully. Although most of the directions on this label may be followed nationwide, a few are limited to either the eastern U.S. or the western U.S. The dividing line between eastern and western U.S. is the Rocky Mountains unless specifically noted otherwise. Follow those directions for your growing area where specified.

FRUIT AND NUT CROPS

ALMONDS: Brown rot twig and blossom blight, shothole, scab, leaf blight, anthracnose (for control of anthracnose, use in a disease and resistance management program of rotational sprays with other approved materials); Apply 4 to 9 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment. Use 6 to 9 pounds per acre when Captan is used alone. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, CAPTAN 50 WP may be used in a tank mix at a rate of 4 to 6 pounds per acre. Apply at popcorn, bloom, petal fall, post petal fall, and full cover sprays. Do not apply within 30 days of harvest. Almond hulls may be fed to livestock. Do not apply more than 40.9 pounds per acre per crop cycle. The REI is 24 hours.

APPLES: (Eastern U.S.): Primary scab, black rot (frog-eye), botrytis blossom-end-rot; Apply 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment. Apply at 5 to 7 day intervals as needed to maintain control in prebloom, bloom, petal fall, and first cover sprays. **Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pox, botryosphaeria rot, bitter rot;** Apply 4 to 8 pounds

CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment. Apply at 10 to 14 day intervals in second and later cover sprays. Do not apply more than 64 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. **Powdery mildew**; If powdery mildew is a problem add 6 to 12 pounds sulfur per acre to all postbloom sprays until foliage matures. NOTE: Do not use CAPTAN 50 WP in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staymen, Baldwin, King etc. as severe injury and defoliation may occur. The REI is 24 hours.

APPLES: (Western U.S.): Primary scab; Apply 4 to 8 pounds of CAPTAN 50 WP per acre in 20 to 400 gallons of water per acre using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, the lower rate may be used in tank mixtures. **(Pacific Northwest): Bull's eye rot, Botrytis rot**; Apply 6 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. Do not apply more than 64 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. **Secondary scab**; In mid-summer cover sprays, the dosage may be reduced to 4 pounds per acre. The REI is 24 hours.

APRICOTS: Brown rot (twig blight), jacket rot; Apply 3 to 5 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water using ground equipment. Apply in red bud, bloom, and 75% petal fall sprays. Do not make applications after 75% petal fall. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rate in tank mixtures. Do not apply more than 25 pounds per acre per crop cycle. The REI is 24 hours.

BLUEBERRIES: (Eastern U.S.): Botrytis gray mold or berry rot, mummy berry; Apply 5 pounds CAPTAN 50 WP per acre in sufficient water for thorough coverage. Start spray program when buds swell or when buds have loose scales. Repeat at 7-day intervals through blossom period. Repeat at 7- to 10-day intervals from late bloom. Do not apply more than 70 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

BLUEBERRIES (Western U.S.): Botrytis gray mold or berry rot, mummy berry; Apply 2 to 5 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water by ground. Begin at mid-bloom, repeat at 7- to 10-day intervals until maturity. Do not apply more than 70 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

BLACKBERRIES, RASPBERRIES: Anthracnose, Botrytis, Spur blight; Apply 4 pounds CAPTAN 50 WP per acre when blossoms are in bud (young canes are 8-10 inches long). Make a second application two weeks later. Apply a fall spray after old canes are removed. **Fruit rot**; Apply 4 pounds of CAPTAN 50 WP per acre at early bloom (5-10% bloom) and again at full bloom. Additional applications can be made at 10-14 day intervals as needed. Apply CAPTAN 50 WP as indicated above in 45-100 gallons of water per acre. Use the higher volume as foliage increases. Do not apply more than 20 pounds of CAPTAN 50 WP per acre per season. Do not apply within 3 days of harvest. The REI is 48 hours.

CHERRIES: (Eastern U.S.): Brown rot, leaf spot, Botrytis rot; Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3- to 4-day intervals may be necessary during bloom to control blossom blight. Repeat applications at 7- to 20-day intervals as needed to maintain control up to start of harvest. If powdery mildew is a problem, add 6 lbs. sulfur per acre to the petal fall, shuck, and early cover sprays. If sulfur is added, CAPTAN 50 WP may be reduced to 2 pounds per acre in these sprays. Do not apply more than 28 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

Post harvest sprays: leaf spot; Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days.

CHERRIES: (Western U.S.): Brown rot blossom blight, brown rot (fruit), leaf spot; Apply 3 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Apply in pre-bloom, bloom, petal fall, shuck, cover, and preharvest sprays. Do not apply more than 28 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

GRAPES: (U.S. except CA): Phomopsis cane and leaf spot, downy mildew, suppression of black rot; Apply 2 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment when shoots are 1/2 to 1 1/2 inches long, when shoots are 3 to 5 inches long, and when shoots are 9 to 12 inches long. Repeat just before bloom, immediately after bloom, and continue at 10- to 14-day intervals as long as disease conditions

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persist. Use the lower rate when spraying less susceptible grape varieties or when conditions are less favorable for disease development. Use the higher rate on susceptible grape varieties and during periods of weather highly favorable for disease development. Do not apply more than 24 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

GRAPES: (California): Bunch rot (Botrytis); Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Make 2 applications before bloom and 1 immediately after bloom. Repeat periodically, making 3 cover applications before the bunches close. **Phomopsis cane and leaf spot** (current season infection); Apply 3 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Apply first spray when green tissue begins to show but before shoots are 1 inch long and repeat application when shoots are 6 to 8 inches long. Do not apply more than 24 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

NECTARINES: Brown rot, scab; Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of Captan 50WP in tank mixes. Apply in full pink, bloom, petal fall, shuck, cover, and preharvest sprays. Applications at 3- to 4-day intervals may be necessary during bloom to control blossom blight. Repeat application at 7- to 14-day intervals as needed to maintain control. Continue applications throughout harvest if conditions favor brown rot. If powdery mildew is a problem, add 7½ pounds sulfur per acre to the petal fall, shuck, and early cover spray. If sulfur is added, CAPTAN 50 WP may be reduced to 2½ pounds per acre in these sprays. **Coryneum blight (peach blight, shothole);** Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall, and cover sprays as necessary, and as a postharvest spray (but before leaves drop). Do not apply more than 48 pounds per acre per crop cycle (including postharvest sprays). Preharvest sprays may be applied up to day of harvest. The REI is 24 hours.

PEACHES: Brown rot, scab; Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of CAPTAN 50 WP in tank mixes. Apply in full pink, bloom, petal fall, shuck stages, and in cover and preharvest sprays. When conditions are favorable, make applications at 3- to 4-day intervals during bloom to control blossom blight. Then repeat application at 7- to 14-day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 12 pounds sulfur per acre to the petal fall, shuck, and early cover spray. If sulfur is added, CAPTAN 50 WP may be reduced to 4 pounds per acre in these sprays. **Coryneum blight (peach blight, shothole);** Apply 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment. Apply in pink bud, full bloom, petal fall stages, and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply more than 64 pounds per acre per crop cycle (including postharvest sprays). Pre-harvest sprays may be applied up to day of harvest. The REI is 48 hours.

PLUMS, FRESH PRUNES (Eastern U.S.): Brown rot; Apply 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment. Apply in full pink, bloom, and petal fall sprays. Repeat applications at 7- to 14-day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage. Do not apply more than 54 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

PLUMS, FRESH PRUNES (Western U.S.): Brown rot; Apply 4 to 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment. Use lower rates when tank mixes with fungicides of similar spectrum of activity are used. Apply at green bud, popcorn, bloom, and petal fall stages. Repeat in cover sprays as conditions warrant. **Prune russet scab (lacy scab);** Apply 4 to 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment. Apply at full bloom. Do not apply more than 54 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

STRAWBERRIES: Botrytis (gray mold), leaf spot; Apply by broadcast spray at 3 to 6 pounds CAPTAN 50 WP per acre in sufficient water for thorough coverage by ground equipment. Begin applications when new growth starts in the spring and before fruit starts to form. Repeat at 7- to 14-day intervals. Under conditions favorable to fruit rot, continue applications through harvest period treating immediately after each picking. Do not apply more than 48 pounds per acre per year. May be applied up to day of harvest. The REI is 24 hours.

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If applying as a directed/banded spray; use band rate of CAPTAN 50 WP according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre} = \text{Banded rate of CAPTAN 50 WP per acre}$$

SPECIAL USES

PEACH PREPLANT ROOT DIP (California): Preventative preplant dip treatment for crown gall; Use 4 pounds CAPTAN 50 WP plus 3.2 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gallons of water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 5 minutes. Recharge dip during operation at a rate of 3.2 pints diluted sodium hypochlorite per 100 gallons of water.

POSTHARVEST FRUIT APPLICATION: (For use in mechanical fruit dip operations only): For control of various molds and storage rots (Botrytis, Gleosporium, Rhizopus). Use as a post harvest dip or spray wash on the following fruits: Apples, Cherries, Pears; Use 2½ pounds CAPTAN 50 WP per 100 gallons of water. Apply as a spray or in a dip tank. When used as a dip, recharge wash solution periodically when tank volume is reduced by 25%. Bring water back to volume and add 2½ pounds CAPTAN 50 WP for each 100 gallons added. At end of every 8-hour shift, empty tank, flush, and charge with fresh dilution. Do not allow tank solution to stand overnight. Maintain continuous agitation during dipping operation. Hand dipping of fruit is prohibited. For post-application fruit dips: Do not contact or allow others to contact the treated fruit until sprays have dried.

DISPOSAL OF LEFTOVER POSTHARVEST TREATMENT MIXTURE: Leftover dip or spray mixtures containing Captan may be used as a foliar spray for the same crop in case of apples and cherries (but not pears) as treated by the dip or spray mixture, or to registered turf and ornamentals sites, observing all restrictions such as maximum pounds applied per application and season.

When calculating application rates, if analytical services are not available to determine the exact quantity of Captan remaining in the mixture, assume that the tank still contains 2½ pounds of CAPTAN 50 WP per 100 gallons of water. If the dip or spray mixture contains other pesticides in addition to CAPTAN 50 WP, refer to the product label(s) for information regarding disposal. CAPTAN 50 WP wastes are acutely hazardous to the eyes. Improper disposal of spray or dip tank mixtures is a violation of Federal Law. If the leftover dip or spray mixture cannot be disposed of in the manner prescribed above, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance concerning the disposal of spent or excess dip tank mixtures.

ORNAMENTALS USE PRECAUTIONS

Do not apply spray to ornamental plants listed below beyond the point of drip from the leaf surface. Apply only sufficient mixture to wet the surface of the soil except when the dose is specified in terms of volume of mixture per square foot of area. See the AGRICULTURAL USE REQUIREMENTS box to determine the REI.

AZALEAS: Damping-off of cuttings; Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding. **Petal blight;** Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply to soil around plants and spray plants just before bloom. Repeat at 7- to 14-day intervals through bloom.

BEGONIAS (Tuberous): Damping-off, tuber rot; Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip tubers in mixture for 30 minutes, drain, and plant.

CAMELLIAS: Petal blight; Use 1 pound CAPTAN 50 WP per 100 gallons of water. Apply to drench soil around plants beginning when flowers start to open. Repeat at 7- to 10-day intervals through bloom.

CARNATIONS: Alternaria leaf spot, rust; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Begin application at first sign of disease. Repeat at 7- to 10-day intervals. Shorten intervals if there are frequent rains and heavy dews. **Damping-off of cuttings;** Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding.

CHRYSANTHEMUMS: Botrytis flower blight, Septoria leaf spot; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply at first sign of disease. Repeat at 7- to 10-day intervals. **Damping-off of cuttings;** Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding.

DICHONDRA (California only): White Mold; Use 8.6 lbs. per acre per application of CAPTAN 50 WP per 100

gallons of water. Apply 1 gallon of spray per 10 square feet. Make applications at 7-day intervals. Do not exceed 17.2 lbs. per acre per season.

GLADIOLUS (Corms): Corm rot and decay, damping-off; Use ½ to 1½ pounds CAPTAN 50 WP per 10 gallons, dip corms 20 to 30 minutes. Drain and plant.

GRASSES (Commercial Turf Only): Leaf spot, damping-off, brown patch, melting out, seedling blights, and brown spot on St. Augustine grass; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply 10 gallons spray per 1,000 square feet. Begin when growth starts in spring. Repeat at 7- to 14-day intervals throughout season. The maximum application rate for commercial turf is 4.3 pounds a.i./A with a seasonal application rate of 8.6 pounds a.i./A. Do not graze treated areas or feed clippings to livestock. Do not apply to turfgrass in residential sites, including homes, apartment buildings, daycare centers, schools, playgrounds, parks, recreational areas, sports fields or other residential areas.

GRASSES (Sodfarms): Damping-off and other soil borne diseases; Use ¼ to 1/3 pound CAPTAN 50 WP per 1,000 square feet or 2 pounds CAPTAN 50 WP per 100 gallons of water, using 10 gallons spray per 1,000 square feet. Cultivate into upper 3 to 4 inches before planting.

ROSES: Black spot, Botrytis blossom blight; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Begin at first growth or first sign of disease. Repeat at 7- to 14-day intervals, and more frequently during frequent rains and heavy dews.

SOIL AND GREENHOUSE BENCH TREATMENT: Preplant treatment for damping-off, root rot diseases on seedling or transplants of roses (and other shrubs, trees, flowers) and lawn seedbeds; Use 2 pounds CAPTAN 50 WP per 100 gallons of water at a rate of 15 gallons spray per 1,000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place. Keep pesticide in original container. Keep container closed when not in use. Do not put concentrate or dilute into food or drink containers. Not for use or storage in or around the home. For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill the outer bag. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose the 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.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in

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contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

CAPTAN 50 WP (66222-1) (EPA app 9-19-07) (Notif to EPA 10-18-12)

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[Note to EPA label editor: This is the SECONDARY LABEL for Captan 50WP packaged in Water Soluble Packets.]

CAPTAN 50 WP

(Alternate Brand Name: Captan GOLD 50 WP)

- A Fungicide for Plant Disease Control

ACTIVE INGREDIENTS:	% BY WT.
Captan: N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide.....	48.93%
Related Derivatives.....	1.07%
INERT INGREDIENTS:.....	50.00%
	TOTAL 100.00%

EPA Reg. No. 66222-1

EPA Est. No. 11678-ISR-002

Manufactured for:
 Makhteshim Agan of North America, Inc.
 3120 Highwoods Blvd., Suite 100
 Raleigh, NC 27604

For PRODUCT USE Information Call 1-866-406-MANA (6262).

NET CONTENTS: 5 POUNDS (5 1 lb. water soluble packets)

CAPTAN 50 WP is a microfine wettable powder for use in water as a spray for the control of certain fungal diseases of fruit and ornamental crops and as a soil treatment for the control of certain seed rots and damping-off diseases.

KEEP OUT OF REACH OF CHILDREN DANGER-PELIGRO

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 style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice. |
| IF SWALLOWED: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by the poison control center or doctor. • Do not give anything by mouth to an unconscious person. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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DANGER

Corrosive. Causes irreversible eye damage. May be fatal if inhaled. Do not get in eyes or on clothing. Do not breathe dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, and other handlers (including handlers participating in seeding and transplanting as part of root-dip or greenhouse-soil treatments must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical-resistant gloves made of any waterproof material (except applicators driving ground motorized ground equipment)
- Chemical-resistant apron when mixing/loading, participating in dip treatments, cleaning up spills, cleaning equipment, or otherwise exposed to the concentrate

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

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

USER SAFETY RECOMMENDATIONS

Users should:

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

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

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. For PRODUCT USE Information Call 1-866-406-MANA (6262).

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of:

- 24 hours for almonds, apples, apricots, cherries, nectarines, peaches, plums/fresh prunes, and strawberries
- 48 hours for blackberries, blueberries, grapes, and raspberries

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48 hours for ornamentals

48 hours for soil treatments and root dips: For soil and greenhouse bench treatments and root dips, once the treatment and any seeding or transplanting tasks done as part of the treatment are complete, the 48-hour REI begins. Exception: Once the seeds or transplants are planted in the soil, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no contact with the soil subsurface.

EARLY ENTRY PPE:

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
- Protective eyewear
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Double Notification: Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas

Eye protection: To mitigate eye irritation concerns from post-application exposures, for at least seven days following the application of captan: 1. At least one container designed specifically for flushing eyes must be available in operating condition at the WPS- required decontamination site for workers entering the area treated with captan. 2. Workers must be informed orally, in a manner they can understand: that residues in the treated area may be highly irritating to their eyes, that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes, that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container that is located at the decontamination site, and how to operate the eyeflush container.

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.

For postharvest fruit dip use: Do not contact or allow others to contact the treated fruit until sprays have dried. Do not enter or allow others to enter until sprays have dried.

Read all precautions and directions for use before using. Use only for claims listed and only as specified on this label.

In order that pesticide residues on food and forage crops will not exceed federal tolerances, use only at recommended rates and intervals and do not apply closer to harvest than specified. Do not apply or allow to drift to adjoining food, fiber, or pasture crops. Drift of CAPTAN 50 WP onto sensitive crops (e.g., D'Anjou Pears) can cause severe phytotoxicity and crop loss.

Water soluble packaging is required for all aerial applications.

This product is individually packaged in one-pound units in a translucent water soluble bag contained within an outer package. Do not open the water soluble bags. Do not allow the inner bag to become wet before adding to spray or nurse tank. Do not handle the inner bag with wet hands or wet gloves. Rough handling may cause breakage. Do not store at temperatures below 32°F (0°C). Allow to warm above 50°F (10°C) before normal use. Cooler water temperatures increase the time needed for the inner bag to dissolve completely.

This product is intended for dilution with water for spray application. Do not use strainers finer than 50-mesh size. Determine the number of water soluble bag(s) to make up necessary spray suspension. Where dosages are expressed as fractions of pounds, prepare the tank mix to the lower of the nearest whole package. Fill the spray or nurse tank ½ full with water. Open the outer wrapper of this product and immediately dump required contents into spray tank. If possible, direct the fill water over the top of the packets. Allow the water soluble bag(s) to dissolve completely. Depending on the water temperature and agitation, the packets should be completely dissolved within approximately 3 to 5 minutes from the time they were added to the spray tank.

Once the packets have completely dissolved, add other chemicals following conventional mixing order practices.

Tank mix solutions containing boron will affect the solubility of the water soluble film. When preparing tank mixes containing boron, make sure that the water soluble packets are completely dissolved before adding any other products.

Add boron-containing solutions to the spray tank last.

Start hydraulic or mechanical agitation. Air agitation is not recommended. Mix thoroughly to fully disperse and suspend the wettable powder. Fill the spray tank with the required amount of water. Add tank mix partners in this order: all products in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to fully disperse before adding the next product. Maintain sufficient agitation while adding the remainder of the water and until all of the mixture has been applied. Maintain agitation during storage in nurse or supply tank or application.

SPRAY DRIFT LABELING

Do not allow this product to drift.

Foliar Spray Drift Management

Avoiding spray drift from foliar applications is the responsibility of the applicator. Similar to aerial spray drift, the interaction of many equipment- and-weather-related factors determine the potential for spray drift from foliar applications. To protect water resources, the applicator and the grower are responsible for considering all these factors when making decisions. For ground boom applications, do not apply with a nozzle height greater than 4 feet above the crop canopy.

Aerial Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Aerial Drift Reduction Advisory

This section is advisory in nature and does not supersede the mandatory label requirements.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may

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further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a cross-wind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles. Apply only when the wind speed is 2-10 mph at the application site.

For ground boom applications, do not apply with a nozzle height greater than 4 feet above the crop canopy.

Consult State Agricultural Experiment stations or State Agricultural Extension Service for additional information as the time of applications needed will vary with the local conditions.

COMPATIBILITY AND PLANT SAFETY: CAPTAN 50 WP can be combined safely and effectively at recommended dosage rates with most commonly used fungicides and insecticides, with the exception of oil and strongly alkaline materials. Alkaline materials such as spray lime, lime-sulfur, and Bordeaux mixture will reduce the fungicidal activity of CAPTAN 50 WP. Do not apply CAPTAN 50 WP in combination with or immediately before or closely following oil sprays. Do not allow oil sprays on adjacent crops to drift onto crops which have been or will shortly be treated with CAPTAN 50 WP. The time factor governing the safe interval between CAPTAN 50 WP and oil sprays varies due to general climatic conditions, therefore, consult local agricultural spray programs and authorities to determine the proper timing. The use of spreaders which cause excessive wetting is not advised. Combinations with solvent formulations of organic phosphates should not be used. Combinations of CAPTAN 50 WP and sulfur should not be used on crops sensitive to sulfur. Used at high rates or in drenching sprays, CAPTAN 50 WP may cause a necrotic spotting of tender, immature leaves of certain varieties of apples, peaches, plums, and cherries. This type of injury is most likely to occur in the early cover sprays during long periods of warm, cloudy, humid weather. To avoid the hazard of leaf spotting under such conditions, use CAPTAN 50 WP and other spray materials at lowest recommended rates and avoid drenching trees.

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Applications can be made by aircraft or ground power equipment (including concentrate and semi-concentrate equipment). Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants. (Read compatibility and plant safety information).

For aerial or concentrate spray applications, apply the same amount of CAPTAN 50 WP per acre as would normally be applied for dilute spray applications. Apply aerial or concentrate sprays in sufficient water for coverage.

CHEMIGATION STATEMENT

Do not apply this product through any type of irrigation system.

GENERAL USE PRECAUTIONS

Except as specified, begin applications before or at first sign of disease and repeat as needed to maintain control but observe use limitations. Unless otherwise specified, application can be made on the day of harvest. Maximum application is for a crop cycle. Crop cycle is defined as prebloom through postharvest. Apply the high rate and/or spray at shorter intervals when climatic conditions most favor disease(s). Apply the low rate and/or spray at larger intervals when climatic conditions least favor disease(s). If you are unaware of the climatic conditions favorable for disease(s) claimed for the specific use sites, you must consult with your State Agricultural Extension Service to learn of these conditions.

IMPORTANT: Read label carefully. Although most of the directions on this label may be followed nationwide, a few are limited to either the eastern U.S. or the western U.S. The dividing line between eastern and western U.S. is the Rocky Mountains unless specifically noted otherwise. Follow those directions for your growing area where specified.

FRUIT AND NUT CROPS

ALMONDS: Brown rot twig and blossom blight, shothole, scab, leaf blight, anthracnose (for control of anthracnose, use in a disease and resistance management program of rotational sprays with other approved materials); Apply 4 to 9 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment or in 5 to 20 gallons of water by air. Use 6 to 9 pounds per acre when Captan is used alone. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, CAPTAN 50 WP may be used in a tank mix at a rate of 4 to 6 pounds per acre. Apply at popcorn, bloom, petal fall, post petal fall, and full cover sprays. Do not apply within 30 days of harvest. Almond hulls may be fed to livestock. Do not apply more than 40.9 pounds per acre per crop cycle. The REI is 24 hours.

APPLES: (Eastern U.S.): Primary scab, black rot (frog-eye), botrytis blossom-end-rot; Apply 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment or in 5 to 20 gallons of water by air. Apply at 5 to 7 day intervals as needed to maintain control in prebloom, bloom, petal fall, and first cover sprays. **Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pox, botryosphaeria rot, bitter rot;** Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment or in 5 to 20 gallons of water by air. Apply at 10 to 14 day intervals in second and later cover sprays. Do not apply more than 64 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. **Powdery mildew;** If powdery mildew is a problem add 6 to 12 pounds sulfur per acre to all postbloom sprays until foliage matures. **NOTE:** Do not use CAPTAN 50 WP in combination with or closely following or in alternation with wettable sulfur products on sulfur sensitive varieties of apples such as Red Delicious, Staymen, Baldwin, King etc. as severe injury and defoliation may occur. The REI is 24 hours.

APPLES: (Western U.S.): Primary scab; Apply 4 to 8 pounds of CAPTAN 50 WP per acre in 20 to 400 gallons of water per acre using ground equipment or in 5 to 20 gallons of water by air. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, the lower rate may be used in tank mixtures. **(Pacific Northwest): Bull's eye rot, Botrytis rot;** Apply 6 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment or in 5 to 20 gallons of water by air. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. Do not apply more than 64 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. **Secondary scab;** In mid-summer cover sprays, the dosage may be reduced to 4 pounds per acre. The REI is 24 hours.

APRICOTS: Brown rot (twig blight), jacket rot; Apply 3 to 5 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in red bud, bloom, and 75% petal fall sprays. Do not make applications after 75% petal fall. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rate in tank mixtures. Do not apply more than 25 pounds per acre per crop cycle. The REI is 24 hours.

BLUEBERRIES: (Eastern U.S.): Botrytis gray mold or berry rot, mummy berry; Apply 5 pounds CAPTAN 50 WP per acre in sufficient water for thorough coverage or a minimum of 5 gallons of water by air. Start spray program when buds swell or when buds have loose scales. Repeat at 7-day intervals through blossom period. Repeat at 7- to 10-day intervals from late bloom. Do not apply more than 70 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

BLUEBERRIES (Western U.S.): Botrytis gray mold or berry rot, mummy berry; Apply 2 to 5 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water by ground or in 5 to 20 gallons of water by air. Begin at mid-bloom, repeat at 7- to 10-day intervals until maturity. Do not apply more than 70 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

BLACKBERRIES, RASPBERRIES: Anthracnose, Botrytis, Spur blight; Apply 4 pounds CAPTAN 50 WP per acre when blossoms are in bud (young canes are 8-10 inches long). Make a second application two weeks later. Apply a fall spray after old canes are removed. **Fruit rot;** Apply 4 pounds of CAPTAN 50 WP per acre at early bloom (5-10% bloom) and again at full bloom. Additional applications can be made at 10-14 day intervals as needed. Apply CAPTAN 50 WP as indicated above in 45-100 gallons of water per acre. Use the higher volume as foliage increases. Do not apply more than 20 pounds of CAPTAN 50 WP per acre per season. Do not apply within 3 days of harvest. The REI is 48 hours.

CHERRIES: (Eastern U.S.): Brown rot, leaf spot, Botrytis rot; Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in pre-bloom, bloom, petal fall, shuck, cover and preharvest sprays. Applications at 3- to 4-day intervals may be necessary during bloom to control blossom blight. Repeat applications at 7- to 20-day intervals as needed to maintain control up to start of harvest. If powdery mildew is a problem, add 6 lbs. sulfur per acre to the petal fall, shuck, and early cover sprays. If sulfur is added, CAPTAN 50 WP may be reduced to 2 pounds per acre in these sprays. Do not apply more than 28 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

Post harvest sprays: leaf spot; Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days.

CHERRIES: (Western U.S.): Brown rot blossom blight, brown rot (fruit), leaf spot; Apply 3 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in pre-bloom, bloom, petal fall, shuck, cover, and preharvest sprays. Do not apply more than 28 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

GRAPES: (U.S. except CA): Phomopsis cane and leaf spot, downy mildew, suppression of black rot; Apply 2 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment or in 7 to 20 gallons water by air when shoots are ½ to 1½ inches long, when shoots are 3 to 5 inches long, and when shoots are 9 to 12 inches long. Repeat just before bloom, immediately after bloom, and continue at 10- to 14-day intervals as long as disease conditions persist. Use the lower rate when spraying less susceptible grape varieties or when conditions are less favorable for disease development. Use the higher rate on susceptible grape varieties and during periods of weather highly favorable for disease development. Do not apply more than 24 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

GRAPES: (California): Bunch rot (Botrytis); Apply 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment or in 7 to 20 gallons of water by air. Make 2 applications before bloom and 1 immediately after bloom. Repeat periodically, making 3 cover applications before the bunches close. **Phomopsis cane and leaf spot** (current season infection); Apply 3 to 4 pounds CAPTAN 50 WP per acre in 20 to 200 gallons of water using ground equipment or apply 4 pounds CAPTAN 50 WP per acre in 7 to 20 gallons of water by air. Apply first spray when green tissue begins to show but before shoots are 1 inch long and repeat application when shoots are 6 to 8 inches long. Do not apply more than 24 pounds of CAPTAN 50 WP per acre per crop cycle. May be applied up to day of harvest. The REI is 48 hours.

NECTARINES: Brown rot, scab; Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water

using ground equipment or in 10 to 20 gallons of water by air. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of Captan 50WP in tank mixes. Apply in full pink, bloom, petal fall, shuck, cover, and preharvest sprays. Applications at 3- to 4-day intervals may be necessary during bloom to control blossom blight. Repeat application at 7- to 14-day intervals as needed to maintain control. Continue applications throughout harvest if conditions favor brown rot. If powdery mildew is a problem, add 7½ pounds sulfur per acre to the petal fall, shuck, and early cover spray. If sulfur is added, CAPTAN 50 WP may be reduced to 2½ pounds per acre in these sprays. **Coryneum blight (peach blight, shothole)**; Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 250 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in pink bud, full bloom, petal fall, and cover sprays as necessary, and as a postharvest spray (but before leaves drop). Do not apply more than 48 pounds per acre per crop cycle (including postharvest sprays). Preharvest sprays may be applied up to day of harvest. The REI is 24 hours.

PEACHES: Brown rot, scab; Apply 4 to 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment or in 10 to 20 gallons of water by air. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rates of CAPTAN 50 WP in tank mixes. Apply in full pink, bloom, petal fall, shuck stages, and in cover and preharvest sprays. When conditions are favorable, make applications at 3- to 4-day intervals during bloom to control blossom blight. Then repeat application at 7- to 14-day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. If powdery mildew is a problem, add 12 pounds sulfur per acre to the petal fall, shuck, and early cover spray. If sulfur is added, CAPTAN 50 WP may be reduced to 4 pounds per acre in these sprays. **Coryneum blight (peach blight, shothole)**; Apply 8 pounds CAPTAN 50 WP per acre in 20 to 400 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in pink bud, full bloom, petal fall stages, and cover sprays as necessary and as a post harvest spray (but before leaves drop). Do not apply more than 64 pounds per acre per crop cycle (including postharvest sprays). Pre-harvest sprays may be applied up to day of harvest. The REI is 48 hours.

PLUMS, FRESH PRUNES (Eastern U.S.): Brown rot; Apply 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply in full pink, bloom, and petal fall sprays. Repeat applications at 7- to 14-day intervals as needed to maintain control. Continue applications through harvest if conditions favor brown rot. The addition of a neutral spreader has improved coverage. Do not apply more than 54 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

PLUMS, FRESH PRUNES (Western U.S.): Brown rot; Apply 4 to 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Use lower rates when tank mixes with fungicides of similar spectrum of activity are used. Apply at green bud, popcorn, bloom, and petal fall stages. Repeat in cover sprays as conditions warrant. **Prune russet scab (lacy scab)**; Apply 4 to 6 pounds CAPTAN 50 WP per acre in 20 to 300 gallons of water using ground equipment. Apply at full bloom. Do not apply more than 54 pounds per acre per crop cycle. May be applied up to day of harvest. The REI is 24 hours.

STRAWBERRIES: Botrytis (gray mold), leaf spot; Apply by broadcast spray at 3 to 6 pounds CAPTAN 50 WP per acre in sufficient water for thorough coverage by ground equipment or in 10 to 20 gallons of water by air. Begin applications when new growth starts in the spring and before fruit starts to form. Repeat at 7- to 14-day intervals. Under conditions favorable to fruit rot, continue applications through harvest period treating immediately after each picking. Do not apply more than 48 pounds per acre per year. May be applied up to day of harvest. The REI is 24 hours.

If applying as a directed/banded spray, use band rate of Captan 50-WP according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre} = \text{Banded rate of Captan 50-WP per acre}$$

SPECIAL USES

PEACH PREPLANT ROOT DIP (California): Preventative preplant dip treatment for crown gall; Use 4 pounds CAPTAN 50 WP plus 3.2 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gallons of water. Wash nursery trees to remove soil from roots. Cut off all dormant buds and suckers in crown area and prune root system if necessary. Submerge the entire dormant tree for 5 minutes. Recharge dip during operation at a rate of 3.2 pints diluted sodium hypochlorite per 100 gallons of water.

POSTHARVEST FRUIT APPLICATION: (For use in mechanical fruit dip operations only): For control of various molds and storage rots (Botrytis, Gleosporium, Rhizopus). Use as a post harvest dip or spray wash on the following fruits: Apples, Cherries, Pears; Use 2½ pounds CAPTAN 50 WP per 100 gallons of water. Apply as a spray or in a dip tank. When used as a dip, recharge wash solution periodically when tank volume is reduced by 25%. Bring water back to volume and add 2½ pounds CAPTAN 50 WP for each 100 gallons added. At end of every 8-hour shift, empty tank, flush, and charge with fresh dilution. Do not allow tank solution to stand overnight. Maintain continuous agitation during dipping operation. Hand dipping of fruit is prohibited.

DISPOSAL OF LEFTOVER POSTHARVEST TREATMENT MIXTURE: Leftover dip or spray mixtures containing Captan may be used as a foliar spray for the same crop in case of apples and cherries (but not pears) as treated by the dip or spray mixture, or to registered turf and ornamentals sites, observing all restrictions such as maximum pounds applied per application and season.

When calculating application rates, if analytical services are not available to determine the exact quantity of Captan remaining in the mixture, assume that the tank still contains 2½ pounds of CAPTAN 50 WP per 100 gallons of water. If the dip or spray mixture contains other pesticides in addition to CAPTAN 50 WP, refer to the product label(s) for information regarding disposal. CAPTAN 50 WP wastes are acutely hazardous to the eyes. Improper disposal of spray or dip tank mixtures is a violation of Federal Law. If the leftover dip or spray mixture cannot be disposed of in the manner prescribed above, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance concerning the disposal of spent or excess dip tank mixtures.

**ORNAMENTALS
USE PRECAUTIONS**

Do not apply spray to ornamental plants listed below beyond the point of drip from the leaf surface. Apply only sufficient mixture to wet the surface of the soil except when the dose is specified in terms of volume of mixture per square foot of area. See the AGRICULTURAL USE REQUIREMENTS box to determine the REI.

AZALEAS: Damping-off of cuttings; Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding. **Petal blight;** Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply to soil around plants and spray plants just before bloom. Repeat at 7- to 14-day intervals through bloom.

BEGONIAS (Tuberous): Damping-off, tuber rot; Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip tubers in mixture for 30 minutes, drain, and plant.

CAMELLIAS: Petal blight; Use 1 pound CAPTAN 50 WP per 100 gallons of water. Apply to drench soil around plants beginning when flowers start to open. Repeat at 7- to 10-day intervals through bloom.

CARNATIONS: Alternaria leaf spot, rust; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Begin application at first sign of disease. Repeat at 7- to 10-day intervals. Shorten intervals if there are frequent rains and heavy dews. **Damping-off of cuttings;** Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding.

CHRYSANTHEMUMS: Botrytis flower blight, Septoria leaf spot; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply at first sign of disease. Repeat at 7- to 10-day intervals. **Damping-off of cuttings;** Use 4 pounds CAPTAN 50 WP per 100 gallons of water. Dip cuttings in mixture before bedding.

DICHONDRA (California only): White Mold; Use 8.6 lbs. per acre per application of CAPTAN 50 WP per 100 gallons of water. Apply 1 gallon of spray per 10 square feet. Make applications at 7-day intervals. Do not exceed 17.2 lbs. per acre per season.

GLADIOLUS (Corms): Corm rot and decay, damping-off; Use ½ to 1½ pounds CAPTAN 50 WP per 10 gallons, dip corms 20 to 30 minutes. Drain and plant.

GRASSES (Commercial Turf Only): Leaf spot, damping-off, brown patch, melting out, seedling blights, and brown spot on St. Augustine grass; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Apply 10 gallons spray per 1,000 square feet. Begin when growth starts in spring. Repeat at 7- to 14-day intervals throughout season. Do not graze treated areas or feed clippings to livestock. Do not apply to turfgrass in residential sites, including homes, apartment buildings, daycare centers, schools, playgrounds, parks, recreational areas, sports fields or other residential areas. The maximum application rate for turf in commercial settings is 4.3

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lbs active ingredient/acre with a seasonal application rate of 8.6 lbs active ingredient/acre.

GRASSES (Sodfarms): Damping-off and other soil borne diseases; Use ¼ to 1/3 pound CAPTAN 50 WP per 1,000 square feet or 2 pounds CAPTAN 50 WP per 100 gallons of water, using 10 gallons spray per 1,000 square feet. Cultivate into upper 3 to 4 inches before planting. The maximum application rate for sodfarm turf is 4.3 lbs. active ingredient/acre with a seasonal application rate of 8.6 lbs. active ingredient/acre.

ROSES: Black spot, Botrytis blossom blight; Use 2 pounds CAPTAN 50 WP per 100 gallons of water. Begin at first growth or first sign of disease. Repeat at 7- to 14-day intervals, and more frequently during frequent rains and heavy dews.

SOIL AND GREENHOUSE BENCH TREATMENT: Preplant treatment for damping-off, root rot diseases on seedling or transplants of roses (and other shrubs, trees, flowers) and lawn seedbeds; Use 2 pounds CAPTAN 50 WP per 100 gallons of water at a rate of 15 gallons spray per 1,000 square feet. Cultivate into upper 3 to 4 inches of soil before planting.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep pesticide in original container. Keep container tightly closed when not in use. Protect from excessive heat. Store in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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: (If packaged in water soluble packets): Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Once all water soluble packets are used according to label instructions, dispose of empty outer bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

If not packaged in water soluble packets: Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

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

CAPTAN 50 WP (66222-1) (EPA app 9-19-07) (Notif to EPA 10-18-12)