

66330-48

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Laurent C. Mézin
Project Manager
Arvesta Corporation
100 First Street, Suite 1700
San Francisco, CA 94105

MAR 1 2004

Subject: Captevate™ 68 WDG Fungicide
EPA Reg. No. 66330-48
Your Amendment dated December 16, 2003

Dear Dr. Mézin:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following changes are made:

1. In the "Agricultural Use Requirements" box, add "protective eyewear" to the list of PPE in the sentence starting "PPE required for early entry into..."

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supercedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at westin.robert@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Carl Grable for".

Mary Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

Enclosure

(Front Panel)

CAPTEVATE™ 68 WDG Fungicide

67.9% Water Dispersible Granule
for Use in Water as a Spray for the Control of Gray Mold (*Botrytis cinerea*),
Anthracnose (*Colletotrichum* spp.), Spur blight (*Didymella appianata*) and
Monillia Diseases in Various Crops

FOR AGRICULTURAL USE ONLY

Not for Residential Use

INGREDIENTS

ACTIVE INGREDIENTS:

Fenhexamid*	14.3%
Captan**	53.6%
Captan Related Derivatives	1.2%
OTHER INGREDIENTS:	30.9%
Total	100.0%

* N-(2,3-dichloro-4-hydroxyphenyl)-1-methyl-cyclohexane carboxamide

** N-trichloromethylthio-4-cyclohexene-1,2-dicarboximide

KEEP OUT OF REACH OF CHILDREN

**DANGER
PELIGRO**

Si usted no entiende la etiqueta, busque 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.)

Arvesta Corporation
100 First Street, Suite 1700
San Francisco, CA 94105

EPA Registration No. 66330-48
EPA Establishment No. _____

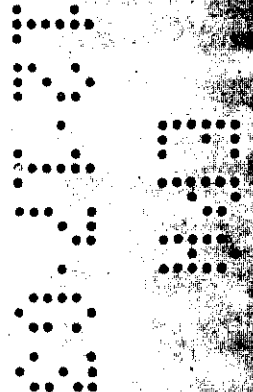
NET WEIGHT: _____ POUNDS (_____ KILOGRAMS)

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

MAR 1 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
I have recorded, for the pesticide
labeled under EPA Reg. No.

66330-48



[Back panel]

FIRST AID

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with warm 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 swallowed	<ul style="list-style-type: none"> • Call 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 so 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.
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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE:
CALL 1-800-228-5635 Ext. 174**
**FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE:
CALL CHEMTREC 1-800-424-9300**

See back panel for additional precautionary statements.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Causes irreversible eye damage. Do not get in eyes. Harmful if swallowed or inhaled. Avoid contact with skin, eyes and clothing. 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 polyethylene and polyvinyl chloride. 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 must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,

- Chemical-resistant gloves (except applicators driving motorized equipment),
- Chemical-resistant apron when participating in dip treatments,
- Protective eyewear.

In addition, a NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C or a NIOSH-approved respirator with any N², R, P, or HE filter must be worn by all handlers *except* (1) applicators driving motorized equipment and (2) mixers/loaders/applicators participating in backpack, low-pressure handwand/handgun treatments.

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.

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

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Carefully read and understand the Directions for Use and restrictions before applying this product.

Do not apply this product in any 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 on this label about personal protective equipment (PPE), notification to workers, 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 entry into treated areas during the restricted entry interval (REI) of 24 hours for almond, cherry and strawberry and 72 hours for blueberry and raspberry.

PPE required for early entry into 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, socks, shoes, chemical resistant gloves made of waterproof material.

Eye Protection

To mitigate eye irritation concerns from post-application exposures, the Agency is requiring that, for at least seven days following the application of captan,

1. at least one container designed specifically for flushing eyes is available in operating condition at the WPS-required decontamination site for workers entering the area treated with captan, and
2. workers are 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
 - on how to operate the eyeflush container.

Double Notification

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

GENERAL INFORMATION

CAPTEVATE 68 WDG Fungicide is a premix product containing fenhexamid, a hydroxylanilide protectant fungicide having specific activity against *Botrytis* and *Monilinia* diseases, and captan, a broad-spectrum carboxamide protectant fungicide. CAPTEVATE 68 WDG Fungicide controls Gray mold (*Botrytis cinerea*) on blueberries, cherries, raspberries and strawberries, Anthracnose (*Colletotrichum* spp.) on blueberries, raspberries and strawberries, Spur blight (*Didymella appianata*) on raspberries, mummyberry (*Monilinia vaccini-corymbose*) on blueberries and Brown rot, Blossom blight and twig blight (*Monilinia* spp.) on almonds and cherries. Use this product in a program with other products to provide season-long protection and minimize the risk of resistance development. Apply as directed in the "APPLICATION" section using sufficient water to

obtain thorough coverage of plants. Under severe disease conditions, use maximum rates and shorter application intervals as specified on the label. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes accordingly.

Avoiding spray drift from foliar applications is the responsibility of the applicator. 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.

RESISTANCE MANAGEMENT

While there is no indication of cross-resistance between the active ingredients in this product and other fungicides, appropriate resistance management strategies such as a blocking program, alternation or tank mixture with other fungicides used for the diseases controlled are recommended. Do not apply more than two consecutive applications of CAPTEVATE 68 WDG Fungicide or any product containing the active ingredient fenhexamid. After the second application, use an alternative fungicide effective in controlling the labeled diseases for two applications before reapplying any product containing the active ingredient fenhexamid. Consult your local crop advisor for appropriate rotation recommendations. To avoid the development of resistant strains, DO NOT apply CAPTEVATE 68 WDG Fungicide at rates lower than recommended on this label.

COMPATIBILITY OF MIXTURES

This product is believed to be compatible with most commonly used fungicides, insecticides, micronutrients, growth regulators and spray adjuvants, with the exception of oils and strongly alkaline materials. Alkaline materials such as spray lime, lime sulfur and Bordeaux mixture will reduce the fungicidal activity of CAPTEVATE. DO NOT apply CAPTEVATE in combination with or immediately before or closely following oil sprays. DO NOT allow oil sprays on adjacent crops to drift onto crops that have been or will shortly be treated with CAPTEVATE. Consult specific product labels for additional information. It is always advisable to conduct a tank mix compatibility test when you plan to mix this product with other products. To determine the physical compatibility of this product with other products, use a jar test: Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. It is suggested that combinations be used on a small number of plants before treating large areas.

PREPARATION OF SPRAY SOLUTION

Read COMPATIBILITY OF MIXTURES section prior to any tank mixing with this product. Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add and properly suspend the necessary amount of product before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. If desired, add a high quality wetting agent or other spray adjuvant, approved for use on your crop, to spray solutions according to the manufacturer's use instructions. Properly suspend and dilute CAPTEVATE 68 WDG

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Fungicide prior to the addition of any adjuvant. Consult the adjuvant label or manufacturer for crop tolerance and safety information when used with this product. Maintain agitation during mixing. DO NOT allow the spray mixture to stand without agitation. Apply with properly calibrated spray equipment. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use.

APPLICATION AND RATE CALCULATIONS

Prepare only the amount of spray solution needed to treat the area to be sprayed. Maintain agitation during application. Apply immediately after the spray solution is prepared. If there is any delay in application, continue mix agitation. DO NOT allow the spray mixture to stand without agitation. If agitation is stopped for any reason, the spray solution must be thoroughly re-mixed prior to any further use. Rainfall or overhead irrigation within 2 hours of application will necessitate re-treatment.

Proper calibration and operation of spray equipment is essential for successful spraying. Consult the spray equipment manufacturer's operators manual, spray nozzle catalogs, and/or your crop advisor for more information.

DO NOT apply this product through any type of irrigation system.

Apply using ground equipment only (such as boom type, air blast, hand gun or mist blower sprayer). For food crops, thorough coverage of all flowers and fruiting parts is essential for control of blossom and fruit infections caused by *Botrytis* and *Monilinia* spp.

Do not replant food crops other than those for which the product is labeled within 30 days following the last application.

When using any product containing the active ingredients fenhexamid or captan, the maximum seasonal application amount must be respected. The tables below list equivalent active ingredient (AI) rates for CAPTEVATE and maximum application amounts for reference.

1 lb (0.679 lb AI) CAPTEVATE 68 WDG	Contains	
	0.143 lb AI Fenhexamid	0.536 lb AI Captan

Crop	Maximum Use Rate Per Season	
	Fenhexamid	Captan
Almond	3.0 lb AI	20 lb AI
Blueberry	3.0 lb AI	35 lb AI
Cherry	3.0 lb AI	14 lb AI
Raspberry	3.0 lb AI	10 lb AI
Strawberry	3.0 lb AI	24 lb AI

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ALMONDS (Except in California)

Diseases	Application Rate	Application Timing
Blossom blight, twig blight (<i>Monilinia</i> spp.)	3.5 – 5.25 lbs/A (2.4 - 3.6 lb AI/A)	<ul style="list-style-type: none"> • Pink bud • Full bloom • Petal fall • Up to 28 days after petal fall
<p>Notes:</p> <ul style="list-style-type: none"> • PHI = 30 days • Apply in sufficient water to obtain complete coverage of flowers, fruit and twigs • Do not make more than 2 consecutive applications. -- Refer to the Resistance Management section for rotation guidelines. • Do not apply more than 21.0 lbs/A/season (14.3 lbs AI/A/season). 		

BLUEBERRIES

Disease	Application Rate	Application Timing
Gray mold (<i>Botrytis cinerea</i>)	3.5 – 4.7 lbs/A (2.4 – 3.2 lb AI/A)	<ul style="list-style-type: none"> • For Gray mold control, begin applications at 10% bloom • Continue applications through harvest. • Applications should be made every 7 – 10 days or when conditions favor disease development
Mummyberry (<i>Monilinia vaccinii-corymbosi</i>) Anthracnose (<i>Colletotrichum</i> spp.)	4.7 lbs/A (3.2 lb AI/A)	<ul style="list-style-type: none"> • For Mummyberry and Anthracnose control, begin applications at early green tip and pink bud. • Continue applications through harvest. • Applications should be made every 7-10 days or when conditions favor disease development.
<p>Notes:</p> <ul style="list-style-type: none"> • PHI = 0 days. • Do not make more than 2 consecutive applications. -- Refer to the Resistance Management section for rotation guidelines. • Do not apply more than 21.0 lbs/A/season (14.3 lbs AI/A/season). 		

CHERRIES (Except California)

Disease	Application Rate	Application Timing
Brown rot, Leaf spot, Blossom blight, Twig blight (<i>Monilinia</i> spp.)	3.75 lbs/A (2.55 lb AI/A)	<ul style="list-style-type: none"> • Early bloom. • Late bloom. • 2 weeks after petal fall. • Up to day of harvest.

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Gray mold (<i>Botrytis cinerea</i>)	3.5 lbs/A (2.38 lb AI/A)	<ul style="list-style-type: none"> • Early bloom. • Then every 7-10 days or when conditions favor disease development. • Up to day of harvest,
<p>Notes:</p> <ul style="list-style-type: none"> • PHI = 0 day. • Do not make more than 2 consecutive applications. Refer to the Resistance Management section for rotation guidelines. • Do not apply more than 18.75 lbs/A/season (12.75 lbs AI/A/season). 		

RASPBERRIES

Disease	Application Rate	Application Timing
Gray mold (<i>Botrytis cinerea</i>) Spur blight (<i>Didymella applanata</i>) Anthracnose (<i>Colletotrichum</i> spp.)	3.5 lbs/A (2.38 lb AI/A)	<ul style="list-style-type: none"> • For Gray Mold control, begin applications at 10% bloom. • For Spur Blight and Anthracnose control, begin applications when blossoms are in bud (young canes are 8-10" long). • Continue applications through harvest. • Applications should be made every 7-14 days or when conditions favor disease development.
<p>Notes:</p> <ul style="list-style-type: none"> • PHI = 3 days. • Do not make more than 2 consecutive applications. Refer to the Resistance Management section for rotation guidelines. • Do not apply more than 17.5 lbs/A/season (11.9 lbs AI/A/season). 		

STRAWBERRIES

Disease	Application Rate	Application Timing
Gray mold (<i>Botrytis cinerea</i>)	3.5 - 5.25 lbs/A (2.4 – 3.6 lb AI/A)	<ul style="list-style-type: none"> • For Anthracnose control, begin applications at flower bud emergence • For Gray mold control, begin applications at early bloom • Continue applications every 7-10 days or apply when conditions favor disease development, up to the day of harvest

<p>Anthracnose (<i>Colletotrichum</i> spp.)</p>	<p>5.25 lbs/A (3.6 lb A/A)</p>	<ul style="list-style-type: none"> • For Anthracnose control, begin applications at flower bud emergence. • Continue applications every 7-10 days or apply when conditions favor disease development, up to the day of harvest.
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Notes:

- PHI = 0 days
- Do not make more than two consecutive applications. Refer to the Resistance Management section for rotation guidelines
- Do not apply more than 21.0 lbs/A/season (14.3 lbs A/A/season)
- When plastic mulch is used, do not apply within 16 feet (5 meters) of naturally vegetated or aquatic areas.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store in a cool, dry place. Protect from excessive heat. Do not store or transport near food or feed.
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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

CONDITIONS OF SALE

1. Arvesta Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the Directions for Use under normal conditions of use.
2. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Arvesta. **ARVESTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. ARVESTA DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**
3. Critical and unforeseeable factors beyond Arvesta's control prevent Arvesta from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which the product is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks

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occur even though the product is reasonably fit for the use stated on the label and even though label directions are followed. Except as stated in 1 above, Buyer and User acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

Fenhexamid was invented and is produced by Bayer AG, Germany.
CAPTEVATE is a trademark of Arvesta Corporation.