

66330-48

07/09/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg.
Number:
66330-48

Date of Issuance:
JUL 9 2003

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
CaptEvate 68WDG
Fungicide

Name and Address of Registrant (include ZIP Code):

Arvesta Corp.
100 First Street, Suite 1700
San Francisco, CA 94105

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 66330-48".
 - b. Under Precautionary Statements, change "Caution" to "Danger". Revise the rest of the Precautionary Statements to read: "Causes irreversible eye damage. Do not get

Signature of Approving Official:

Mary L. Waller
Mary L. Waller, Product Manager (21)

Date:

7/9/03

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." Delete the rest of the paragraph since this information appears elsewhere on the label.

c. The label must contain the required statements included in the Captan RED. Add the following in the Agricultural Use Requirements box: "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 -- 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."

d. Add the information under "Foliar Spray Drift Management" in the RED in the directions for use: "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."

3. Enclosed are copies of the toxicology data and product chemistry data reviews.

4. As indicated in the product chemistry review, you must submit storage stability and corrosion characteristics data for the product upon completion of the studies.

Submit one copy of the revised final printed label for the record.

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EPA Registration Number 66330-48

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



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

Enclosures

7505C:CGrable:cg:7/9/03

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(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*) and Anthracnose (*Colletotrichum*
spp.) Diseases in Blueberries and Strawberries and for the Control of *Monillinia*
Diseases in Almonds and Blueberries
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 entienda 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.)

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

**JUL 9 2003
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

66330-48

Produced for:
Arvesta Corporation
100 First Street, Suite 1700
San Francisco, CA 94005

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

NET WEIGHT: ____ POUNDS (____ KILOGRAMS)

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[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.

<p>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: CALL 1-800-228-5635 Ext. 174</p> <p>FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE: CALL CHEMTREC 1-800-424-9300</p>
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See back panel for additional precautionary statements.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. May cause irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Harmful if swallowed. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. 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.

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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 and strawberry and 72 hours for blueberry.

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.

GENERAL INFORMATION: CAPTEVATE 68WDG Fungicide is a premix product containing fenhexamid, a hydroxyanilide protectant fungicide having specific activity against *Botrytis* and *Monilinia* diseases, and captan, a broad-spectrum carboxamide protectant fungicide. CAPTEVATE 68WDG can be used for the control of Gray mold (*Botrytis cinerea*) and Anthracnose (*Colletotrichum* spp.) on blueberries and strawberries, as well as Mummyberry (*Monilina vaccinii-corymbosi*) on blueberries. In addition, CAPTEVATE 68WDG controls Brown rot, Blossom blight and Twig blight (*Monilinia* spp.) on almonds. This product should be used 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.

RESISTANCE MANAGEMENT: While there is no indication of cross-resistance between the active ingredients in this product and other fungicides or of the existence of resistant fungal strains, no more than two consecutive applications should be made with CAPTEVATE 68WDG Fungicide or any other product containing the active ingredient

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fenhexamid. After the second application, use an alternative fungicide effective in controlling *Botrytis cinerea* for two applications before reapplying any product containing fenhexamid. Consult your local crop advisor for appropriate rotation recommendations. Resistance management strategies such as a blocking program, alternation or tank mixture with other fungicides used for *Botrytis* and *Monilinia* control are recommended. To avoid the development of resistance strains, DO NOT apply CAPTEVATE 68WDG 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. A high quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. CAPTEVATE should be properly suspended and diluted 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. Applications should be made 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 may necessitate re-treatment.

Proper calibration and operation of spray equipment is essential for successful spraying.

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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.

For agricultural applications, 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 AI rates for CAPTEVATE and maximum application amounts for reference.

1 lb (0.679 lb AI) CaptEvote 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
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>) Mummyberry (<i>Monilinia vaccinii-corymbosi</i>) Anthracnose (<i>Colletotrichum</i> spp.)	3.5 – 4.7 lbs/A (2.4 – 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 • 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
<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). 		

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STRAWBERRIES

Disease	Application Rate	Application Timing
Gray mold (<i>Botrytis cinerea</i>) Anthracnose (<i>Colletotrichum</i> spp.)	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

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 AI/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 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.