

66330-325

03/01/2007 SE 73617

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

66330-235

Date of Issuance:

MAR 1 2007

NOTICE OF PESTICIDE:
Registration
XX Reregistration
(under FIFRA, as amended)

Terms of Issuance:
Unconditional

Name of Pesticide Product:
Captan 4 Flowable

Name and Address of Registrant (include ZIP Code):

Arysta LifeScience North America Corporation
15401 Weston Parkway, Suite 150
Cary, NC 27513

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.

Based on your response to the Reregistration Eligibility Document(s), EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

A copy of your revised label stamped "Accepted" is enclosed for your records.

Signature of Approving Official:

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Cynthia Giles-Parker, Branch Chief
Fungicide Branch, Registration Division

Date:

MAR 1 2007

ACCEPTED 2/12

MAR 7 2007

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 66330-235

# CAPTAN 4 FLOWABLE

## Aqueous Suspension Agricultural Fungicide

**ACTIVE INGREDIENT:**

Captan - N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide:.....	38.75%
Related Derivatives .....	0.85%
<b>INERT INGREDIENTS</b> .....	<b>60.40%</b>

**TOTAL :** 100.00%

(Contains 4 lbs. Active Ingredient per gallon)

**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 this label, find someone to explain it to you in detail.)

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive to the eye. If splashed in eyes, refer promptly to an ophthalmologist for evaluation, medical treatment, and follow-up care.	
<b>EMERGENCY TELEPHONE NUMBERS:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:	
<b>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:</b> 1-866-303-6952	
<b>FOR CHEMICAL EMERGENCY:</b> Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300	

See Additional Precautionary Statements and Directions for Use in Attached Booklet.

EPA Reg. No. 66330-235  
EPA Est. No. 51036-GA-1  
AD xxxxxx

**Manufactured For:**  
Arysta LifeScience North America Corporation  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

NET CONTENTS: \_\_\_\_ Gal.

**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans And Domestic Animals**  
**DANGER**

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin or inhaled. . Do not get in eyes or on clothing. Avoid contact with skin.. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks and shoes, goggles or face shield and chemical resistant gloves (such as water proof, selection Category A). Prolonged or repeated skin contact may cause allergic reaction in some individuals.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. 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
- Chemical-resistant gloves, except for pilots, flaggers, or applicators driving motorized ground equipment
- Shoes plus socks
- Protective eyewear
- Chemical resistant apron when mixing/load, participating in dip treatments, clean 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.

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:**

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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.

### AGRICULTURAL USE REQUIREMENTS

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

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

24 hours for strawberries, almonds, apples, apricots, cherries, nectarines, plums/fresh prunes, and peaches.

96 hours for ornamentals grown for commercial or research use, For soil and greenhouse bench treatments and root dips, once the treatment and any seeding or transplanting 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.

72 hours for blueberries, grapes, raspberries, blackberries, and dewberries.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

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

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

**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 must be available in operating condition at the WPS-required decontamination site for workers entering the area treated with captan, and
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 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.

Entry Restrictions For Postharvest Fruit Dip:

Do not contact or allow others to contact the treated fruit until sprays have dried.

BEFORE USING MIX CONTENTS THOROUGHLY - STIR OR ROLL. Pour recommended amount of this material into  
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nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Use a screen not finer than 50 mesh in entire system. Do not combine with emulsifiable liquids or wettable powders unless previous experience has proven them to be physically compatible and safe to plants.

#### **CHEMIGATION PROHIBITION**

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

#### **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 determines the potential for spray drift. 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.

#### **Additional requirements for aerial applications:**

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Do not make applications into temperature inversions.

#### **Additional requirements for ground boom application:**

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

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 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 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.

**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).

**USE PRECAUTIONS**

Captan 4 Flowable is an aqueous suspension for use in water as a spray for the control of certain fungus diseases of fruit.

Observe use limitations given on the label for specific crops. In order that pesticidal residues on food and forage crops will not exceed tolerances established by the Environmental Protection Agency, use only at recommended rates and intervals. Do not apply or allow to drift onto adjoining food, fiber or pasture crops. The grower is responsible for residues on his crops as well as for damage caused by drift from his property to that of others. Consult State Agricultural Experiment Stations or the State Agricultural Extension Service for additional information, as the time of applications needed will vary with local conditions.

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.

Applications can be made by aircraft or ground power equipment (including concentrate and semi-concentrate equipment).

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For aerial or concentrate spray applications, apply the same amount of Captan 4 Flowable per acre as would normally be applied for dilute sprays.

Apply the high rate and/or spray at shorter intervals when climatic conditions most favors disease(s). Apply the low rate and/or spray at larger intervals when climatic conditions least favors 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.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Keep pesticide in original container. Store in a cool dry place (below 110 degrees F.) Protect from freezing temperatures (32 degrees F or lower).

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PRODUCT FREEZING TEMPERATURE:** 32 Degrees F. Satisfactory utility may generally be restored after thawing and mixing a product that has frozen. Repeated freezing-thawing cycles may impair utility. This product is sold only for uses stated on the label.

**ALMONDS:**

**Brown rot twig and blossom blight, shothole, scab, leaf blight** - Apply 2 to 4 1/2 quarts Captan 4 Flowable per acre in 20 to 300 gallons of water using ground equipment or in 5 to 20 gallons of water by air. Use 3 to 4 1/2 quarts per acre when captan is used alone. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, Captan 4 Flowable may be used in a tankmix at a rate of 2 to 3 quarts per acre. Apply at popcorn, bloom and petal fall stages and up to 5 weeks after petal fall.

The maximum application rate for almonds is 4.5 lb ai/acre, with a maximum seasonal application rate of 20 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 30 days. Note the restricted Entry Interval is 24 hours. Almond hulls may be fed to livestock.

**APPLES (Eastern U.S.):**

**Primary scab, black rot (frogeye), botrytis blossom-end rot** - Apply 4 quarts Captan 4 Flowable per acre in 20 to 400 gallons of water using ground equipment or in 5 to 20 gallons of water by air.

**Secondary scab, Brooks fruit spot, sooty blotch, fly speck, black rot, black pox, botryosphaeria rot, bitter rot** - Apply 2 to 4 quarts Captan 4 Flowable per acre in 20 to 400 gallons of water using ground equipment or in 5 to 20 gallons of water by air.

**Powdery mildew** - If powdery mildew is a problem add 6 to 12 lbs. sulfur per acre to all post-bloom sprays until foliage matures.

**NOTE** - Do not use Captan 4 Flowable 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.

**APPLES (Western U.S.):**

**Primary scab** - Apply 2 to 4 quarts Captan 4 Flowable 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 3 quarts Captan 4 Flowable per acre in 20 to 400 gallons of water using ground equipment or 5 to 20 gallons of water by air. Make 1 or 2 applications with late cover sprays and 1 final spray prior to harvest. **Secondary scab** - in mid-summer cover sprays, the dosage maybe reduced to 2 quarts per acre.

**APPLES - APPLICATION PRECAUTIONS AND RESTRICTIONS:**

Apply at 5 to 7 day intervals as needed to maintain control in prebloom, bloom, petal fall and first cover sprays. Apply at 10 to 14 day intervals in second and later cover sprays. The maximum application rate for apples is 4 lb ai/acre, with a maximum seasonal application rate of 32 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

**APRICOTS:**

**Brown rot (twig blight), jacket rot** - Apply 1 1/2 to 2 1/2 quarts Captan 4 Flowable per acre in 20 to 250 gallons of water using ground equipment or 10 to 20 gallons of water by air. Apply in red bud bloom, 75% petal fall, and cover sprays. To reduce the potential for disease resistance development to other fungicides having a similar spectrum, use the lower rate in tank mixtures.

The maximum application rate for apricots is 2.5 lb ai/acre, with a maximum seasonal application rate of 12.5 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the restricted Entry Interval is 24 hours.

**BLUEBERRIES (Eastern U.S.):**

**Botrytis gray mold or berry rot, mummy berry** - Apply 2 1/2 quarts Captan 4 Flowable per acre in sufficient water for thorough coverage or a minimum of 5 gallons of water by air. Start spray program when buds swell and earliest buds have loose scales.

**BLUEBERRIES (Western U.S.):**

**Botrytis gray mold or berry rot, mummy berry** - Apply 1 to 2 1/2 quarts Captan 4 Flowable 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.

**BLUEBERRIES – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

Apply at 7 to 10 day intervals until maturity. The maximum application rate for blueberries is 2.5 lb ai/acre, with a maximum seasonal application rate of 35 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 72 hours.

**CHERRIES (Eastern U.S.):**

**Brown rot, leaf spot, Botrytis rot** - Apply 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment or in 10 to 20 gallons of water by air. 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 4 Flowable may be reduced to 1 quart per acre in these sprays.

**Post harvest sprays: leaf spot** - Apply 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment. Apply immediately after harvest and repeat application in 10 to 14 days.

REI is 24 hours.

**CHERRIES (Western U.S.):**

**Brown rot blossom blight, brown rot (fruit), leaf spot** - Apply 1 1/2 to 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment or in 10 to 20 gallons of water by air.

**CHERRIES – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

Apply in pre-bloom, bloom, petal fall, shuck, cover, and pre-harvest 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. The maximum application rate for cherries is 2 lb ai/acre, with a maximum seasonal application rate of 14 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

**GRAPES (U.S., except CA):**

**Phomopsis cane and leaf spot, downy mildew, suppression of black rot** - Apply 1 to 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons water using ground equipment or in 7 to 20 gallons by air, when shoots are 1/2 to 1 1/2 inches long, when shoots are 3 - 5 inches long, and when shoots are 9 - 12 inches long. Repeat just before bloom, immediately after bloom, and continue at 10-14 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.

**GRAPES (California):**



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**Bunch rot (Botrytis)** - Apply 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment or 7 to 20 gallons of water by air. Make 2 applications before bloom and immediately after bloom. Repeat periodically making 3 cover applications before the bunches close.

**Phomopsis cane and leaf spot (current season infection)** - Apply 1 1/2 to 2 quarts Captan 4 Flowable per acre in 20 to 200 gallons of water using ground equipment or apply 2 quarts Captan 4 Flowable per acre in 7 to 20 gallons of water by aircraft. 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.

#### **GRAPES – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

The maximum application rate for grapes is 2 lb ai/acre, with a maximum seasonal application rate of 12 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 72 hours.

#### **NECTARINES (U.S.):**

**Brown rot, scab** - Apply 4 quarts Captan 4 Flowable 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, the lower rate may be used in tank mixtures. 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 through harvest if conditions favor brown rot. If powdery mildew is a problem, add 7.5 lbs. sulfur per acre to the petal fall, shuck and early cover sprays. If sulfur is added, Captan 4 Flowable may be reduced to 1 1/4 quarts per acre in these sprays.

**Coryneum blight (peach blight, shothole)** - Apply 2 to 4 quarts Captan 4 Flowable 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 post harvest spray (but before leaves drop).

**NECTARINES – APPLICATION PRECAUTIONS AND RESTRICTIONS:** The maximum application rate for nectarines is 4 lb ai/acre, with a maximum seasonal application rate of 24 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

#### **PEACHES (U.S.):**

**Brown rot, scab** - Apply 2 to 4 quarts Captan 4 Flowable 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, the lower rate may be used in tank mixtures. 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 lbs. sulfur per acre to the petal fall, shuck and early cover spray. If sulfur is added, Captan 4 Flowable may be reduced to 2 quarts per acre in these sprays.

**Coryneum blight (peach blight, shothole)** - Apply 4 quarts Captan 4 Flowable 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 32 quarts per acre per crop cycle (including postharvest sprays). Pre-harvest sprays may be applied up to day of harvest. REI is 24 hours.

#### **PEACHES – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

The maximum application rate for peaches is 4 lb ai/acre, with a maximum seasonal application rate of 32 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

#### **PLUMS, FRESH PRUNES (Used for Dried Plums): (Eastern U.S.):**

**Brown rot** - Apply 3 quarts Captan 4 Flowable 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.

#### **PLUMS, FRESH PRUNES (Used for Dried Plums) (except California) (Western U.S.):**

**Brown rot** - Apply 2 to 3 quarts Captan 4 Flowable per acre in 20 to 300 gallons of water using ground equipment or in 10 to 20 gallons of water by air. Apply at green bud, popcorn, bloom and petal fall stages. Repeat in cover sprays as conditions warrant.

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**Prune russet scab (lacy scab)** - Apply 2 to 3 pounds of Captan 4 Flowable per acre in 20 to 300 gallons of water using ground equipment. Apply at full bloom.

**PLUMS – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

The maximum application rate for plums/fresh prunes is 3 lb ai/acre, with a maximum seasonal application rate of 27 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

**STRAWBERRIES (U.S. except California):**

**Botrytis (gray mold), leaf spot** - Apply by broadcast spray at 1 1/2 to 3 pounds Captan 4 Flowable per acre in sufficient water for thorough coverage or in 10 to 20 gallons of water by air or in 40 gallons water for broadcast or band by ground. Begin applications when new growth starts in the spring and before fruit starts to form.

NOTE: After expiration of the 24-hour period, no personal protective equipment is required.

**STRAWBERRIES (California) – Botrytis, Leaf Spot** – Apply by broadcast spray at 1-1/2 to 2.5 lbs. in sufficient water for thorough coverage by ground 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.

If applying as a directed/banded spray; use band rate of Captan 4 Flowable according to the following formula:

$$\frac{\text{Plant Bed Width (inches)}}{\text{Row Spacing (inches)}} \times \text{Broadcast rate per acre} = \text{Banded rate of Captan 4 Flowable per acre.}$$

**STRAWBERRIES – APPLICATION PRECAUTIONS AND RESTRICTIONS:**

Repeat at 7 to 14 day intervals. Under conditions favorable to fruit rot continue applications through harvest period treating immediately after each picking. The maximum application rate for strawberries is 3 lb ai/acre, with a maximum seasonal application rate of 24 lb ai/acre per crop cycle\*. Preharvest interval (PHI) = 0 days. Note the Restricted Entry Interval is 24 hours.

**SPECIAL USES**

**PEACHES (NURSERY STOCK) (California):**

**Preventative preplant dip treatment for crown gall.** Use 4 quarts Captan 4 Flowable plus 3.2 pints diluted sodium hypochlorite (5.25% household bleach) per 100 gallons 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 as necessary to maintain a proper concentration of 20 ppm chlorine. Check the concentration frequently using a chlorine test kit. There is a 48 hour restricted entry interval (REI) for root dip. Once the treatment and transplanting is complete, the 48 hour REI begins.

**POST-HARVEST FRUIT DIP:**

Captan 4 Flowable can be used as a post-harvest dip or wash on the following crops for prevention of various rots and molds (Rhizopus, Botrytis, Gloeosporium) during storage:

**Apples, Cherries, Pears – For use in mechanical fruit dip operations only. Hand dipping of fruit is prohibited.**

Use 1 1/4 quart per 100 gallons water. Apply as a spray or in dip tank. When used as a dip, recharge wash solution periodically as volume in tank is depleted. When tank volume is reduced 25%, bring water back to volume adding 1-1/4 quarts Captan 4 Flowable for every 100 gallons of water added. At end of every 8-hour shift, empty tank, flush and charge with fresh dilution. Do not allow dip tank solution to stand overnight. Maintain continuous agitation during dipping operations. 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 4 Flowable 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 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 1 1/4 quarts of Captan 4 Flowable per 100 gallons of water.

If the dip or spray mixture contains other pesticides in addition to Captan 4 Flowable, refer to the product label(s) for information regarding disposal.

CAPTAN wastes are acutely hazardous to the eyes. Improper disposal of spray or dip tank mixtures is a violation of

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Federal Law. 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.

#### CONDITIONS OF SALE

1. Arysta LifeScience North America Corporation ("Arysta") warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label only when used in accordance with the directions 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 Arysta. **ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. TO THE EXTENT PERMITTED BY LAW, SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM OR IN CONNECTION WITH THE MANUFACTURE, SALE, DELIVERY, USE, HANDLING OR STORAGE OF THIS PRODUCT. TO THE EXTENT PERMITTED BY LAW, SELLER'S LIABILITY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. ARYSTA DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**
3. Critical and unforeseeable factors beyond the control of Arysta prevent Arysta 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 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, to the extent permitted by law, by purchasing, accepting and using this product, the buyer and user acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

**CAPTAN 4 FLOWABLE**  
Aqueous Suspension / Agricultural Fungicide

**ACTIVE INGREDIENT:**

Captan – N-Trichloromethylthio-4-cyclohexene-1,2-dicarboximide:.....	38.75%
Related Derivatives .....	0.85%
<b>INERT INGREDIENTS .....</b>	<b>60.40%</b>

**TOTAL :** 100.00%

(Contains 4 lbs. Active Ingredient per gallon)

**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 this label, find someone to explain it to you in detail.)

**FIRST AID**

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

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Corrosive to the eye. If splashed in eyes, refer promptly to an ophthalmologist for evaluation, medical treatment, and follow-up care.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952**

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

**PRECAUTIONARY STATEMENTS**  
Hazards To Humans And Domestic Animals  
**DANGER**

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks and shoes, goggles or face shield and chemical resistant gloves (such as water proof, selection Category A). Prolonged or repeated skin contact may cause allergic reaction in some individuals.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
3. 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.

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Keep pesticide in original container. Store in a cool dry place (below 110 degrees F.) Protect from freezing temperatures (32 degrees F or lower).

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**DIRECTIONS FOR USE**

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

See Additional Precautionary Statements and Directions for Use in Attached Booklet.

EPA Reg. No. 66330-235

EPA Est. No. 51036-GA-1

AD xxxxxx

**Manufactured For:**

Arysta LifeScience North America Corporation

15401 Weston Parkway, Suite 150

Cary, NC 27513

**NET CONTENTS:** \_\_\_ Gal.

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