

GROUP M FUNGICIDE

Bag

NET CONTENTS: kg

COMMERCIAL

**Captan 50-WP Wettable Powder Agricultural Fungicide
WETTABLE POWDER
AGRICULTURAL FUNGICIDE**

FOR PLANT DISEASE CONTROL

**DANGER - CORROSIVE TO EYES,
POTENTIAL SKIN SENSITIZER**

**READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

CAUTION: Exposure to captan may produce long term health effects. To minimize exposure, follow directions outlined in this label.

GUARANTEE: captan 50%

REGISTRATION NO. 4559 PEST CONTROL PRODUCTS ACT

**ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513 United States
1-866-761-9397**

**PRECAUTIONS
KEEP OUT OF REACH OF CHILDREN**

CORROSIVE to the eyes. DO NOT get in eyes. MAY IRRITATE the skin. DO NOT get on skin.

Never handle material with bare hands.

Wear long-sleeved shirt and long pants, chemical resistant gloves, goggles and NIOSH approved quarter or half mask cartridge respirator (for particulates) during all mixing,

loading, application, clean-up and repair activities. In addition, workers should wear a chemical resistant rain suit during greenhouse applications.

DO NOT reenter treated blueberries, caneberries (raspberries and blackberries) and grapes within 72 hours of application. DO NOT reenter ornamentals within 4 days of treatment. DO NOT reenter all other treated areas within 48 hours of application. If re-entry into treated areas is required, workers must wear long pants, long-sleeved shirt, chemical resistant gloves, work boots and goggles. Change contaminated clothing daily and wash thoroughly before re-use. Wash hands, face and arms thoroughly after handling Captan 50WP Wettable Powder Agricultural Fungicide and before drinking, eating or smoking. Shower after use or at the end of the work day. Wash clothing and gloves before re-use. Always work out of the wind during mixing and loading operations. Keep unprotected persons out of operating area or vicinity where there may be drift. No re-entry shall occur in treated greenhouses without an approved respirator unless it has been fully ventilated.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

FIRST AID

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: 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 centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: 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 centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

EMERGENCY TELEPHONE NUMBER

All hours, 1-866-303-6952 **ONLY** for health and environmental information.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly or indirectly to water. Do not contaminate ponds, lakes, streams or rivers by cleaning of spray equipment or disposal of waste.

DISPOSAL

1. Thoroughly empty the contents of the container into the application device.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the Provincial Regulatory Agency. Contact the manufacturer or Provincial Regulatory Agency in case of spills and for clean-up of spills.

PRODUCT INFORMATION

Captan 50-WP Wettable Powder Agricultural Fungicide is a microfine wettable powder formulated for use in water as a spray for the control of certain fungus diseases of fruit, vegetables and ornamental crops. Captan 50-WP Wettable Powder Agricultural Fungicide is also useful as a soil treatment for the control of certain seed-rots and damping-off diseases. Applications can be made by ground equipment including concentrate and semi-concentrate equipment.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

GENERAL USE PRECAUTIONS

Observe use limitations given on the label for specific crops. Regulations of Health Canada have established the amounts of agricultural chemicals that are permitted to remain on food crops at time of harvest. To avoid exceeding these residue tolerances, use only the recommended amounts and do not spray nearer to harvest than the number of days indicated for each crop or not later than the stage indicated. Consult local agricultural authorities for additional information such as the timing and the number of applications needed which will vary with local conditions.

COMPATIBILITY

Captan 50-WP Wettable Powder Agricultural Fungicide can be used safely and effectively at recommended rates with most of the commonly used insecticides and fungicides with the exception of oil and strongly alkaline materials. Alkaline materials such as spray lime, lime-sulphur and Bordeaux mixture will reduce the fungicidal activity of Captan 50-WP Wettable Powder Agricultural Fungicide. Do not apply Captan 50-WP Wettable Powder Agricultural Fungicide in combination with or immediately before or closely following oil sprays. Combinations with solvent formulations of organic phosphates should not be used. The use of spreaders which cause excessive wetting is not advised. Combinations of Captan 50-WP Wettable Powder Agricultural Fungicide and sulphur should not be used on crops sensitive to sulphur.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Captan 50-WP Wettable Powder Agricultural Fungicide contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to Captan 50-WP Wettable Powder Agricultural Fungicide and other Group M fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance: •

- Where possible, rotate the use of Captan 50-WP Wettable Powder Agricultural Fungicide or other Group M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance, contact Arysta Lifescience North America LLC at 1-866-761-9397.

PLANT SAFETY

Used at high rates or in drenching sprays, Captan 50-WP Wettable Powder Agricultural Fungicide 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 Wettable Powder Agricultural Fungicide and other spray materials at lowest recommended rates and avoid drenching trees.

MIXING DIRECTIONS

Pour recommended amount of this material through screen on surface of water in partially filled spray tank, or pre-mix in a bucket half filled with water and pour into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling, mixing and spraying operations. Do not allow mixture to stand. Do not combine wettable powders with emulsifiable liquids in the same spray tank unless previous use of the materials being combined has proved them compatible.

APPLICATION RATES

Fruit Crops

APPLE: Primary Scab Infection - Use 6 kg/ha for all sprays beginning at green tip, up to and including second cover. **Secondary Scab Infection** - If primary scab is under control, reduce rate to 3 kg in balance of cover sprays. **Sooty Blotch, Fly Speck, Brook's Spot, Bitter Rot, Black Rot** - Use 3 to 6 kg/ha. **Bull's Eye Rot (*Gloeosporium perennans*)** - Use 6 kg/ha. Apply if rainy periods occur prior to harvest. Consult provincial spray calendar for timing of applications. Do not apply within 7 days of harvest. Early season sprays may cause necrotic spotting to foliage of Red Delicious, Winesap and other sensitive varieties. Do not apply by air.

APRICOT: Brown Rot - Apply 6 to 7.2 kg/ha with thorough coverage at pink bud, bloom, shuck-split, shuck-fall and pre-pick sprays. May be applied up to 2 days before harvest. Do not apply by air.

CHERRIES (Sour, Sweet): Brown Rot, Leaf Spot (Shot Hole) - Use 6 to 7.2 kg/ha in the pre-bloom, bloom, petal fall, shuck, cover sprays, and immediately after harvest. Leaf injury may result to the Schmidt and Emperor Francis varieties of sweet cherry in post-bloom sprays. Consult provincial spray calendar for variations in the spray schedule. May be applied up to 2 days before harvest of sweet cherries. May be applied up to 5 days before harvest of sour cherries. Do not apply by air.

PEACH: Brown Rot, Scab - Use 6 to 7.2 kg/ha. Apply in late pink, full bloom, petal fall, shuck fall and cover sprays. Continue application through harvest if conditions favour brown rot. May be applied up to 2 days before harvest. Do not apply by air.

PEAR: Scab, Sooty Blotch - Use 6 kg/ha. **For Scab**, apply in the pre-bloom, petal fall and first cover sprays. **For Sooty Blotch**, apply in the second cover spray and 2 weeks later. Do not use on D'Anjou pears. Do not apply within 7 days of harvest. Do not apply by air.

PLUM, PRUNE: Black Knot, Brown Rot - Use 6 to 7.2 kg/ha. **For Black Knot**, spray in the green tip, pre-bloom and blossom sprays. **For Brown Rot** apply in the pre-bloom, bloom, shuck and cover sprays. Repeat applications at 7 to 14 day intervals as needed to maintain cover. May be applied up to 2 days before harvest. Do not apply by air.

GRAPE: Dead Arm (Current Season's Infections) - Use 3.25 kg/ha. Apply when new shoots are 1 to 5 centimetres long and again when 10 to 15 centimetres long. **Downy Mildew, Black Rot** - Use 3.25 to 5.5 kg/ha. Apply just before bloom, just after bloom and in first cover. For downy mildew, an additional application 2 to 3 weeks later may be needed. Do not apply within 7 days of harvest. Do not apply by air.

RASPBERRY: Fruit Rot, Spur Blight - Use 4 kg/ha in 1,000 litres of water per hectare. Treat when blossoms first appear and then at 7 to 10 day intervals until harvest. If conditions favour fruit rot, continue applications throughout the harvest period. May be applied up to 2 days before harvest. Do not apply by air.

BLACKBERRY: Fruit Rot - Use 3.6 kg/ha in 1,000 litres of water per hectare. Treat when first blossoms open and then at weekly intervals through bloom. If condition favour fruit rot, continue applications throughout the harvest period. May be applied up to 2 days before harvest. Do not apply by air.

LOGANBERRY: Cane Spot, Fruit Rot, Leaf Spots, Spur Blight - Use 2.4 to 3.6 kg in 1,000 litres of water per hectare. Treat when first blossoms open and then at weekly intervals through bloom. If conditions favour fruit rot, continue application throughout the harvest period. May be applied up to 2 days before harvest. Do not apply by air.

BLUEBERRY: Fruit Rot, Mummy Berry - Use 3.6 kg in 1,000 litres of water per hectare. Treat when new growth starts and then at weekly intervals through bloom. If conditions favour fruit rot, continue application throughout the harvest period. May be applied up to 2 days before harvest. Do not apply by air.

STRAWBERRY: Gray-Mold Rot, Leaf Spot - Use 4.5 to 6.75 kg in 1,000 litres of water per hectare. Make first application when new growth starts in spring before fruit forms. Use the higher rate under severe disease conditions. Repeat ever 7 days as needed. If conditions favour fruit rot, applications can be maintained throughout harvest period, treating strawberry plants immediately after picking. May be applied up to 2 days before harvest. Do not apply by air.

RHUBARB (In Forcing Sheds): Leaf Rot - Use 2.25 to 3.25 kg in 1,000 litres of water. Spray at weekly intervals. May be applied up to 2 days before harvest. Do not apply by air.

Vegetable and Ornamental Crops

CUCUMBER: Anthracnose, Scab - Use 3.6 to 6.75 kg per hectare in sufficient water for thorough coverage. Treat at first sign of disease and then at 5 to 7 days intervals. Use 3.25 to 5 kg on young plants, 5 to 6.75 kg on mature plants. May be applied up to 2 days before harvest. Do not apply by air.

TOMATO: Anthracnose, Septoria Leaf Spot - Use 4.5 to 6.75 kg per hectare in sufficient water for thorough coverage. Apply at the first sign of infection and repeat at 5 to 7 day intervals or as needed to maintain control. Use the higher rate on mature plants or for severe infections. May be applied up to 2 days before harvest. Do not apply by air.

SOIL AND GREENHOUSE BENCH TREATMENT: Use as a soil treatment for damping-off and fungus root rot diseases of seedlings or transplants of roses (and other shrubs, trees, flowers), lawn seedbeds, and vegetables (beans, peas, celery, crucifers, eggplant, pepper, tomato). Use 2.5 kg per 1,000 litres of water and apply at rates of 50 to 85 litres per 100 square metres. Work into the upper 7.5 to 19 centimetres of soil before planting. Do not apply by air.

TURF (golf courses and sod farms only): Brown Patch, Damping-Off, Leaf Spot, Melting-Out, Root Rot - Use 150 to 225 grams in 20L of water per 100 square metres. Begin treatments before infection occurs in early spring. Repeat at intervals of 7 to 14 days throughout the summer. The maximum application rate to turf (golf courses, sod farms) is 9.5 kgs of Captan 50-WP Wettable Powder Agricultural Fungicide per hectare with a maximum seasonal rate of 19 kgs per hectare. Do not apply to home lawns, parks, schools, sports fields and other recreational areas. Do not apply by air.

CAMELLIA: Petal Blight - Use 2 kg in 1,000 litres water. Apply to foliage and soil around plants. Treat weekly or bi-weekly before and during flowering season, especially following rain or damp weather. Do not apply by air.

CARNATION: Leaf Spot, CHRYSANTHEMUM: Botrytis Flower Blight, Septoria Leaf Spot, ROSE: Black Spot - Use 2 to 2.5 kg in 1,000 litres of water. Apply to give even coverage of upper and lower leaf surfaces. Repeat at intervals of 7 to 10 days as necessary. Do not apply by air.

ASTER, DAHLIA, LILAC, ROSE, TULIP: Botrytis Flower Blight - Use 2 kg in 1,000 litres of water. Apply when disease first appears and repeat at intervals of 7 to 10 days as required. Do not apply by air.

AZALEA, CARNATION, CHRYSANTHEMUM: Damping-Off, Rot - Use 5 to 8 grams per litre of water. Dip cuttings for 20 to 30 minutes. Drain before planting. Do not apply by air.

BEGONIA (Tuberous), DAFFODIL, DAHLIA, GLADIOLUS, IRIS (Bulbous), NARCISSUS, TULIP: Damping-Off, Bulb Rots - Use 6 to 15 kg in 1,000 litres of water. Before storage, dip and allow to dry. Do not apply by air.

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