

GROUP	M4	FUNGICIDE
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COMMERCIAL

Net Contents 20 Litres

CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE

READ THE LABEL BEFORE USING

CAUTION: Exposure to captan may produce long term health effects.

To minimize exposure, follow directions outlined on this label.

Contains 1,2-benzisothiazolin-3-one at 0.012% or 2-bromo-2-nitropropane-1,3-diol at 0.03% as a preservative

ACTIVE INGREDIENT: Captan 480 grams per litre

REGISTRATION NO. 9922 PEST CONTROL PRODUCTS ACT

**UPL AgroSolutions Canada Inc.
PO Box 12219
Research Triangle Park, NC 27709**

For Product Use Information Call 1-800-438-6071

**FOR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure, or accident)CALL
CHEMTREC: 1-800-424-9300.**

PRODUCT INFORMATION

CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE is an aqueous suspension suitable for use in water as a spray for the control of certain fungus diseases of fruit and vegetables.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

During mixing/loading, application, clean-up and repair, wear a long-sleeved shirt, long pants, chemical-resistant gloves, shoes and socks, goggles and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.

When applying using groundboom, use a closed cab when handling more than 42 kg ai/day. A closed cab must have both a physical barrier and respiratory protection (i.e. dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab.

Respirators, goggles, and chemical-resistant gloves are not required to be worn inside the closed cab, but need to be available for exiting the cab.

When applying using open cab airblast equipment or for overhead spray, also wear chemical-resistant headgear. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection.

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) on the label. Employers should make every effort to schedule pesticide applications and worker tasks in order to avoid early entry of workers into treated areas. Under exceptional circumstances, certified pesticide applicators may enter treated areas for short-term tasks not involving hand labour if at least 4 hours have passed since application and a long-sleeved shirt, long pants, rubber boots, socks, goggles, chemical-resistant gloves and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides is worn. Time spent in the treated area cannot exceed 1 hour in a 24-hour period or until restricted entry interval is over.

DO NOT enter or allow worker entry into treated areas during the restricted entry intervals REI(s) specified in the following table.

Crop	Activity	REI ^a
Apple orchards that have high density production where the maximum canopy width per tree is 2 m (1 m to reach center or trunk from the row alley). These tree architectural restrictions are to minimize worker contact with treated foliage.	Hand thinning fruit, hand harvesting	15 days
	Hand pruning, training	6 days
	All other activities	2 days
Non-High Density Apple Orchards: Apple and pear orchards that don't meet the requirements specified for high density apple and pear orchards.	Hand thinning fruit	24 days
	Hand harvesting	19 days
	Hand pruning, training	4 days
	All other activities	2 days
Cherry, peach, plum, prune, apricot trees	Hand thinning fruit	29 days
	Hand harvesting	15 days
	All other activities	1 day
Grape	Turning, girdling	78 days
	Hand harvesting, training (full foliage), tying (full foliage), leaf pulling by hand	55 days
	All other activities	12 hours
Strawberry (field grown)	Hand set/ hand line irrigation related activities involving foliage contact	9 days
	Hand harvesting	6 days
	All other activities	12 hours

^a REI = Restricted Entry Interval. REIs longer than 12 hours apply to hand labour tasks. If the REI for hand harvesting and the pre-harvest interval (PHI) are different, follow the longer of the two intervals. Mechanical harvesting could occur after the PHI provided there is no worker contact with treated foliage.

FIRST AID

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.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARD

Toxic to small wild mammals. TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE. 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.

STORAGE

Product freezing temperature 0°C. Satisfactory utility may generally be restored after thawing and mixing a product which has frozen. Repeat freezing-thawing cycles may impair utility.

DISPOSAL

1. Rinse the empty container thoroughly and add the rinsings to the spray mixture in the tank.
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 and the Provincial Regulatory Agency in case of spills and for cleanup of spills.

GENERAL DIRECTIONS FOR USE

USE PRECAUTIONS

This formulation is not suitable for use as a seed protectant. 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. Consult local agricultural authorities for additional information as the timing and

number of applications needed will vary with local conditions.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows.

DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Buffer zones:

Spot treatments using hand-held equipment **DO NOT** require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Strawberry		3	1	5	3
Airblast	Apple orchards, grape	Early growth stage	30	4	40	30
		Late growth stage	20	2	30	20
	Peach, plum, prune, apricot, cherry trees	Early growth stage	30	5	40	35
		Late growth stage	20	3	35	25

For tank-mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank-mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank-mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

COMPATIBILITY AND PLANT SAFETY

Do not apply **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** in combination with or immediately before or closely following oil sprays. Combinations with solvent formulations of organic phosphates should not be used. Do not combine with emulsifiable liquids, or wettable powders unless previous experience has proven physically compatible and safe to plants. The use of spreaders which causes excessive wetting is not advised. Combinations of **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** and sulfur should not be used on crops sensitive to sulfur. Used at high rates **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** may cause a necrotic spotting of tender, immature leaves of certain varieties of apple, 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 4 FLOWABLE AGRICULTURAL FUNGICIDE** and other spray materials at lowest recommended rates.

MIXING DIRECTIONS

Before using mix contents thoroughly stir or roll. Pour recommended amount of this material into nearly filled spray tank. Add balance of water. Maintain agitation during filling and spraying operations. Do not allow mixture to stand. Use a screen not finer than 50 mesh in entire system.

APPLICATION EQUIPMENT: Apply by conventional ground application equipment only, including air blast to fruit crops only. Do not use in greenhouses. **DO NOT apply using aerial application equipment.**

DIRECTIONS FOR USE and APPLICATION RATES

Unless otherwise stated, product rates on this label are given in terms of **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** per 1,000 litres of water.

High Density Apple Orchards: Apple orchards that have high density production, where the maximum canopy width per tree is 2 m (1 m to reach center or trunk from the row alley). These tree architectural restrictions are to minimize worker contact with treated foliage.

Non-High Density Apple Orchards: Apple orchards that don't meet the requirements specified for high density apple orchards.

APPLE: For control of Primary Scab Infections (*Venturia inaequalis*) and Bull's Eye Rot (*Gloeosporium perennans*): Apply in a concentration of 2.5 litres per 1,000 litres of water (1.2 kg a.i./1000 L water).

For control of Secondary Scab Infection (*Venturia inaequalis*), Sooty Blotch (*Gloeodius pomigena*), Fly Speck (*Zygothiala jamaicensis*), Brook's Spot (*Mycosphaerella pomi*), Bitter Rot (*Colletotrichum gloeosporioides*) and Black Rot (*Botryosphaeria obtuse*): Apply in a concentration of 1.25 to 2.5 litres of product per 1,000 litres water (0.6-1.2 kg a.i./1000 L water). Use the highest concentration in situations where high disease pressure is anticipated.

Initiate applications preventatively before infection becomes established. 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 EXCEED 5 litres product /ha (2.4 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 2.4 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

For high density orchards: apply a maximum of 10 applications per year with a minimum re-application interval of 7 days.

For non-high density apple orchards: Apply a maximum of 2 applications/year, with a minimum re-application interval of 7 days. When hand thinning is performed, make one application prior and one application post hand thinning.

APRICOTS: For control of Brown Rot (*Monilinia fructicola*) or Twig Blight (*Monilinia fructicola*): Use 2.1-2.5 litres of product in 1000 of water (1.0-1.2 kg a.i./1000 L water). Apply preventatively when conditions are favorable for disease development. May be applied up to 2 days before harvest.

DO NOT EXCEED 6.7 litres of product /ha (3.2 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 3.2 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

MAXIMUM of one application per year. An application can be made preventatively, between pink bud and 2 days before harvest.

CHERRIES (Sour, Sweet): For control of Brown Rot (*Monilinia fructicola*) and Shot Hole Leaf Spot (*Wilsonomyces carpophilus*): Apply in a concentration of 2.1-5.0 litres of product per 1000 L water (1.0-2.4 kg a.i./1000 L water). Apply preventatively when conditions are favorable for disease development. Use the highest concentration in situations where high disease pressure is anticipated. 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 EXCEED 6.7 litres of product /ha (3.2 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 3.2 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

One application can be made, between pink bud and harvest, and one application can be applied immediately after harvest.

MAXIMUM of two applications per year with one of the applications to occur after harvest.

GRAPES: For control of Black Rot (*Guignardia bidwellii*): Apply in a concentration of 2.1-2.5 litres of product per 1000 L water (1-1.2 kg a.i./1000 L water). Apply preventatively when conditions are favorable for disease development. Use the highest concentration in situations where high disease pressure is anticipated. Do not apply within 7 days of harvest.

DO NOT EXCEED 5.0 litres of product /ha (2.4 kg a.i./ha) in a single application. Application can be made just before bloom, just after bloom and in first cover.

MAXIMUM of 1 applications per year are allowed.

PEACHES: For control of Brown Rot (*Monilinia fructicola*) and Scab (*Cladosporium carpophilum*): Apply in a concentration of 2.1-2.5 litres of product per 1000 L water (1.0-1.2 kg a.i./1000 L water). Apply preventatively when conditions are favorable for disease development. May be applied up to 2 days before harvest.

DO NOT EXCEED 6.7 litres of product /ha (3.2 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 3.2 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

MAXIMUM of one application per year. An application can be made between pink bud and 2 days before harvest.

PLUMS, PRUNES: For control of Brown Rot (*Monolinia fructicola*): Apply in a concentration of 2.1-2.5 litres of product per 1000 L water (1-1.2 kg a.i./1000 L water). Apply preventatively when conditions are favorable for disease development. Use the

highest concentration in situations where high disease pressure is anticipated. May be applied up to 2 days before harvest.

DO NOT EXCEED 6.7 litres of product /ha (3.2 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 3.2 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

MAXIMUM of one application per year. An application can be made starting as soon as pink bud up to 2 days before harvest.

STRAWBERRIES: For control of Botrytis Fruit Rot (*Botrytis cinerea*): Use 2.3 to 3.5 litres of product in 500 litres of water (1.12-1.7 kg a.i./500 L water). Make first application when new growth starts in spring before fruit forms. Use the higher concentration under severe disease conditions. Observe a minimum re-application interval of 7 days. Under severe infection conditions make continuous applications through harvest period, treating immediately after each picking. May be applied up to 2 days before harvest.

DO NOT EXCEED 5.8 litres of product/ha (2.8 kg a.i./ha) in a single application. If disease pressure is high or conditions are conducive for high disease pressure, either tank mix captan at the 2.8 kg a.i./ha rate with another fungicide registered for control of the same disease, or switch to another fungicide registered for control of the same disease.

MAXIMUM of 6 applications per year.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** contains a Group M4. Any fungal population may contain individuals naturally resistant to **CAPTAN 4 FLOWABLE AGRICULTURAL FUNGICIDE** and other Group M4 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 4 FLOWABLE AGRICULTURAL FUNGICIDE** or other Group M4 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 host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications.
- Monitor treated fungal populations for resistance development. Notify UPL AgroSolutions Canada Inc if reduced sensitivity of the pathogen to Captan 4 Flowable Agricultural Fungicide is suspected.
- 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 UPL AgroSolutions Canada Inc at 1-800-438-6071.

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.

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