



GROUP	<b>M</b>	FUNGICIDE
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**Bravo® 500**  
Agricultural Fungicide

AGRICULTURAL

**GUARANTEE:**

Contains..... 500 grams Chlorothalonil (Tetrachloroisophthalonitrile) per litre

Contains 1,2-benzisothiazolin-3-one at 0.01% as a preservative.

**KEEP OUT OF REACH OF CHILDREN**  
**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING.**

**WARNING: CAUSES SEVERE EYE DAMAGE**

REGISTRATION NO. **15723**  
PEST CONTROL PRODUCTS ACT

**Syngenta Crop Protection Canada, Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario  
N1G 4Z3  
Telephone: 1-877-964-3682

Pamphlet

## 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.

## FIRST AID

**IF POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control centre. 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 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. This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reaction should contact a physician **IMMEDIATELY**.

**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.

**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.

## TOXICOLOGICAL INFORMATION

Note to Physician: Persons having an allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

## PRECAUTIONS

**WARNING - Causes Severe Eye Damage. KEEP OUT OF REACH OF CHILDREN.**  
DO NOT get in eyes.

Wear coveralls over long pants, and a long-sleeved shirt, goggles or a face shield, apron, and chemical resistant gloves during mixing, loading, clean-up and repair activities. Wear pants, a long-sleeved shirt and chemical resistant gloves during application.

DO NOT re-enter treated areas within 48 hours. If required, individuals may re-enter treated areas within 48 hours for short-term tasks not involving hand labour only if at least 4 hours has passed

since application, and long pants, long-sleeved shirt, hat and chemical-resistant gloves are worn. AVOID contact with skin or clothing. Wash exposed areas of skin with soap and warm water after handling or using. DO NOT take internally. AVOID breathing spray mist. This product may produce temporary allergic side effects, characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. DO NOT store near feed or foodstuffs. Store in a cool place. Protect from excessive heat. Apply only to areas specified on label.

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](http://www.croplife.ca).

## ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates and marine/estuarine organisms. Runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. DO NOT apply directly to water.

Keep out of lakes, streams, and ponds. DO NOT contaminate water by cleaning of equipment, or disposal of wastes. DO NOT apply where runoff is likely to occur. DO NOT apply when weather conditions favour drift from areas being treated.

A buffer zone of 100 metres for aerial applications and 15 metres for ground applications to protect surface water bodies including lakes, streams, ponds or sloughs from drift must be observed. For aerial application, use mechanical flaggers only. Provincial buffer zones that are greater than the above buffer zones must be observed.

## DISPOSAL

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

### CONTAINER DISPOSAL:

#### **For recyclable containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

#### **For refillable containers:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other

purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-327-8633 (FASTMED)***

## **PRODUCT INFORMATION**

BRAVO 500 Agricultural Fungicide is an excellent fungicide when used according to label directions for control of a broad spectrum of plant diseases. BRAVO 500 Agricultural Fungicide can be used effectively in dilute or concentrate sprays. Thorough uniform coverage is essential for disease control.

DO NOT combine BRAVO 500 Agricultural Fungicide in the spray tank with pesticides, surfactants or fertilizers, unless your prior use has shown the combination physically compatible and non-injurious under your conditions of use. Note: Slowly invert container several times to assure uniform mixture.

The required amount of BRAVO 500 Agricultural Fungicide should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of BRAVO 500 Agricultural Fungicide in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

## **DIRECTIONS FOR USE**

Dosage rates on this label indicate litres of BRAVO 500 Agricultural Fungicide per hectare, unless otherwise stated. Applications should be made in sufficient water to obtain adequate coverage of foliage. Volume of water to be used will vary with crop and amount of plant growth. Spray volume usually will range from 225-1,600 litres per hectare for dilute sprays and 50-100 litres per hectare for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop.

### **Generic Aerial Application Label Instructions - Directions for Use**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label.

When no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop

coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

### Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 30 litres per hectare.

Refer to ENVIRONMENTAL PRECAUTIONS for additional details.

### Vegetable and Field Crops

<b>Crop</b>	<b>Broccoli, Brussels Sprouts, Cabbage, Cauliflower</b>
<b>Target Disease</b>	Alternaria leaf spot Downy mildew
<b>Use Rate L/ha</b>	2.5-4.8
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Begin BRAVO 500 Agricultural Fungicide applications after transplants are set in the field (or shortly after emergence of field seeded crop) or when conditions favour disease development. Use sufficient water to obtain adequate coverage. Repeat applications as necessary to maintain disease control. DO NOT apply within 7 days of harvest.

<b>Crop</b>	<b>Carrot</b>
<b>Target Disease</b>	Early blight ( <i>Cercospora</i> ) Late blight ( <i>Alternaria</i> )
<b>Use Rate L/ha</b>	2.4-3.2
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Start applications when disease threatens and repeat at 7-10 day intervals or as necessary to maintain control. Use sufficient water to obtain adequate coverage. DO NOT apply within one day of harvest.
<b>Crop</b>	<b>Celery</b>
<b>Target Disease</b>	Early blight
<b>Use Rate L/ha</b>	1.6-2.4
<b>Application Interval Days</b>	3-5
<b>Remarks</b>	Start applications when transplants are set in the field. Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. DO NOT apply within 7 days of harvest. For control of early blight and late blight in celery seedbeds, use 2.0-2.8 litres BRAVO 500 Agricultural Fungicide per 1000 litres of water and apply 1,400 litres per hectare twice weekly or as needed to maintain control. Start applications shortly after crop emergence. Use the higher rate under severe disease conditions.
<b>Crop</b>	<b>Celery</b>
<b>Target Disease</b>	Late blight
<b>Use Rate L/ha</b>	2.4-4.0
<b>Application Interval Days</b>	8-10
<b>Remarks</b>	Start applications when transplants are set in the field. Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. DO NOT apply within 7 days of harvest. For control of early blight and late blight in celery seedbeds, use 2.0-2.8 litres BRAVO 500 Agricultural Fungicide per 1000 litres of water and apply 1,400 litres per hectare twice weekly or as needed to maintain control. Start applications shortly after crop emergence. Use the higher rate under severe disease conditions.
<b>Crop</b>	<b>Chickpea</b>
<b>Target Disease</b>	Ascochyta blight
<b>Use Rate L/ha</b>	3.0-4.0 2.0-3.0
<b>Application Interval Days</b>	10
<b>Remarks</b>	Use 3.0-4.0 litres per hectare in first application and 2.0-3.0 litres per hectare in subsequent applications. Make first application at very early flowering and remaining applications at 10 day intervals. DO NOT make more than three applications per season. DO NOT apply within 48 days of harvest. Apply only with ground application equipment in 220 litres of water per hectare. DO NOT apply by air.

<b>Crop</b>	<b>Dry Peas</b>
<b>Target Disease</b>	Ascochyta blight ( <i>Mycosphaarella pinodes</i> )
<b>Use Rate (L/ha)</b>	2.0 - 3.0
<b>Application Interval (days)</b>	10 - 14
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide beginning at early flowering. Make a second application at early pod set, around 10 days after the first. Always apply the higher rate when conditions are favourable for disease. If conditions remain favourable for disease, a third application should be made 10 to 14 days later during pod filling. DO NOT make more than three applications per season. DO NOT apply within 32 days of harvest. DO NOT feed the hay from treated crop to livestock. DO NOT allow grazing of treated crop.
<b>Crop</b>	<b>Lentils</b>
<b>Target Disease</b>	Ascochyta blight Anthracnose
<b>Use Rate (L/ha)</b>	2.0 - 4.0
<b>Application Interval (days)</b>	10 -14
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide beginning at preflowering prior to row closure, make a second application 10 to 14 days after the first application (during bloom period). Do not make more than two applications per season. Do not apply within 48 days of harvest. Do not apply BRAVO 500 Agricultural Fungicide in combination with POAST <sup>†</sup> herbicide and MERGE <sup>†</sup> surfactant or within 48 hours of the application of POAST and MERGE. Do not feed the straw from treated crop to livestock. Do not allow grazing of treated crop.
<b>Crop</b>	<b>Wheat</b>
<b>Target Disease</b>	Septoria leafspot, Septoria glume blotch and Tan spot
<b>Use Rate (L/ha)</b>	1.5 - 2.5
<b>Application Interval (days)</b>	10-14
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide at Zadok's growth stage 37 (flag leaf emergence) and repeat 10-14 days later at growth stage 51-55 (ear visible). A third application at growth stage 59-69 (ear fully emerged) may be necessary if conditions favour disease spread.
<b>Crop</b>	<b>Wheat</b>
<b>Target Disease</b>	Fusarium head blight (scab) suppression
<b>Use Rate (L/ha)</b>	2.0 - 2.5
<b>Application Interval (days)</b>	10-14
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide at growth stage 61-65 (early flowering) to suppress Fusarium head blight. For best results, this application must be made prior to conditions favouring infection, ie. before flowering has started in the majority of tillers and wet weather is due. DO NOT make more than 3 applications per season. DO NOT apply within 30 days of harvest. DO NOT feed the straw from treated crop to livestock. DO NOT allow grazing of treated crop.
<b>Crop</b>	<b>Cucumber</b>
<b>Target Disease</b>	Anthracnose, Powdery mildew, Scab
<b>Use Rate L/ha</b>	4.8
<b>Application Interval Days</b>	7
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when plants are in first true leaf stage or when conditions are favourable for disease development. Under severe conditions, shorten spray interval. DO NOT use within 1 day of harvest.

<b>Crop</b>	<b>Mushroom</b>
<b>Target Disease</b>	Dry bubble
<b>Use Rate L/ha</b>	254 mL/100 m <sup>2</sup> 128 mL/100 m <sup>2</sup>
<b>Application Interval Days</b>	-
<b>Remarks</b>	Apply 254 millilitres per 100 square metres immediately after casing or in the casing mix and 128 millilitres at pinning in 100 to 130 litres of water. Individuals applying BRAVO 500 Agricultural Fungicide in mushroom facilities should wear a full face respirator during all activities. In addition, if re-entry into mushroom facilities within 48 hours of treatment is required wear a full face respirator. DO NOT make more than 2 applications. DO NOT apply within 7 days of harvest.
<b>Crop</b>	<b>Onions (dry bulb and green bunching)</b>
<b>Target Disease</b>	Botrytis leaf blight
<b>Use Rate L/ha</b>	2.4-4.8
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Start applications when disease threatens and repeat as necessary to obtain control. Use sufficient water to obtain adequate coverage. DO NOT make more than 3 applications per season to dry bulb onions. DO NOT make more than 5 applications per season to green bunching onions. DO NOT apply within 7 days of harvest to dry bulb onions. DO NOT apply within 14 days of harvest to green bunching onions.
<b>Crop</b>	<b>Parsnip</b>
<b>Target Disease</b>	Root canker
<b>Use Rate L/ha</b>	2.8
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Start applications in mid-August and repeat at 7-10 day intervals. DO NOT make more than 7 applications per season. DO NOT apply within 7 days of harvest.
<b>Crop</b>	<b>Potato</b>
<b>Target Disease</b>	Late blight
<b>Use Rate L/ha</b>	1.2-2.4
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Use sufficient water to obtain adequate spray coverage. Begin applications when plants are 15-20 cm high, or when disease threatens. Repeat applications as necessary to maintain disease control. Under severe disease conditions, use the higher rates at 7 day intervals. DO NOT apply to potato plants later than 1 day before harvest.
<b>Crop</b>	<b>Potato</b>
<b>Target Disease</b>	Early blight, Botrytis vine rot
<b>Use Rate L/ha</b>	1.6-2.4
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Use sufficient water to obtain adequate spray coverage. Begin applications when plants are 15-20 cm high, or when disease threatens. Repeat applications as necessary to maintain disease control. Under severe disease conditions, use the higher rates at 7 day intervals. DO NOT apply to potato plants later than 1 day before harvest.

<b>Crop</b>	<b>Sweet Corn</b>
<b>Target Disease</b>	Common Rust
<b>Use Rate L/ha</b>	3.2
<b>Application Interval Days</b>	10-14
<b>Remarks</b>	Apply when symptoms are first noticed and repeat again 10-14 days later. DO NOT make more than 2 applications per season. DO NOT apply within 14 days of harvest.
<b>Crop</b>	<b>Tomato (including processing tomatoes)</b>
<b>Target Disease</b>	Early blight, Late blight, Septoria leaf spot, Anthracnose
<b>Use Rate L/ha</b>	2.4-4.0
<b>Application Interval Days</b>	8-10 days at the lower rate or 14 days at the higher rate
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when disease threatens and spray as per listed interval. Under severe disease conditions, shorten the spray interval. DO NOT apply within 1 day of harvest.
<b>Crop</b>	<b>Tomato (including processing tomatoes)</b>
<b>Target Disease</b>	Botrytis gray mold
<b>Use Rate L/ha</b>	4.8
<b>Application Interval Days</b>	8-10
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when disease threatens and spray as per listed interval. Under severe disease conditions, shorten the spray interval. DO NOT apply within 1 day of harvest.
<b>Processing tomatoes:</b> BRAVO 500 Agricultural Fungicide can be tank mixed with LEXONE <sup>†</sup> herbicide. Follow the above directions for use for disease control and use LEXONE at 150 grams active ingredient per hectare for weed control. Refer to the LEXONE label for proper rates and use. When using this tank mix combination, DO NOT apply within 30 days of harvest.	

### Fruit Crops

<b>Crop</b>	<b>Blueberry</b>
<b>Target Disease</b>	Anthracnose Fruit Rot, Alternaria Fruit Rot, Phomopsis Canker
<b>Use Rate L/ha</b>	7.2
<b>Application Interval Days</b>	-
<b>Remarks</b>	Apply three applications at green tip, pink bud and petal fall. After petal fall, a protective schedule using a different registered product may be necessary to ensure continued control of fruit rot. DO NOT apply within 54 days of harvest.
<b>Crop</b>	<b>Cantaloupe, Muskmelon, Honeydew</b>
<b>Target Disease</b>	Anthracnose, Powdery mildew, Scab
<b>Use Rate L/ha</b>	4.8
<b>Application Interval Days</b>	7
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when plants are in the first true leaf stage or when conditions are favourable for disease development. Repeat applications at 7 day intervals. Under severe disease conditions, shorten spray interval. DO NOT apply within 1 day of harvest.

<b>Crop</b>	<b>Cherry (Sweet and Sour)</b>
<b>Target Disease</b>	Blossom blight/Brown rot
<b>Use Rate L/ha</b>	5.0-9.0
<b>Application Interval Days</b>	-
<b>Remarks</b>	Apply 1-3 applications from pink through shuck split. Use higher rate per hectare for trees greater than 6 metres in height, or if weather is warm (above 16°C.) and wet during bloom. Apply in 500-1000 litres of water per hectare.
<b>Crop</b>	<b>Cherry (Sour)</b>
<b>Target Disease</b>	Cherry leaf spot (Pre-harvest)
<b>Use Rate L/ha</b>	5.0-9.0
<b>Application Interval Days</b>	-
<b>Remarks</b>	Apply once at shuck split. Apply in 500-1000 litres of water per hectare. Apply once to foliage 1-7 days after fruit is removed. In orchards with a high leaf spot incidence, make a second application 10-14 days later. Apply in 500-1000 litres water per hectare. For orchards with a history of black knot disease, prune out, remove and burn all black knots from commercial orchard during the dormant period, before bud break. Remove any infected wild cherry or plum trees surrounding commercial orchard. Follow BRAVO 500 Agricultural Fungicide spray schedule for blossom blight, including one application at shuck split. DO NOT apply after shuck split to avoid fruit injury. DO NOT make more than 3 pre-harvest applications per season. DO NOT apply within 40 days of harvest.
<b>Crop</b>	<b>Cherry (Sour)</b>
<b>Target Disease</b>	Cherry leaf spot (Post-harvest)
<b>Use Rate L/ha</b>	5.0-9.0
<b>Application Interval Days</b>	10-14
<b>Remarks</b>	Apply once at shuck split. Apply in 500-1000 litres of water per hectare. Apply once to foliage 1-7 days after fruit is removed. In orchards with a high leaf spot incidence, make a second application 10-14 days later. Apply in 500-1000 litres water per hectare. For orchards with a history of black knot disease, prune out, remove and burn all black knots from commercial orchard during the dormant period, before bud break. Remove any infected wild cherry or plum trees surrounding commercial orchard. Follow BRAVO 500 Agricultural Fungicide spray schedule for blossom blight, including one application at shuck split. DO NOT apply after shuck split to avoid fruit injury. DO NOT make more than 3 pre-harvest applications per season. DO NOT apply within 40 days of harvest.

<b>Crop</b>	<b>Cherry (Sour)</b>
<b>Target Disease</b>	Black knot
<b>Use Rate L/ha</b>	6.0-9.0
<b>Application Interval Days</b>	-
<b>Remarks</b>	<p>Apply once at shuck split. Apply in 500-1000 litres of water per hectare. Apply once to foliage 1-7 days after fruit is removed. In orchards with a high leaf spot incidence, make a second application 10-14 days later. Apply in 500-1000 litres water per hectare.</p> <p>For orchards with a history of black knot disease, prune out, remove and burn all black knots from commercial orchard during the dormant period, before bud break. Remove any infected wild cherry or plum trees surrounding commercial orchard. Follow BRAVO 500 Agricultural Fungicide spray schedule for blossom blight, including one application at shuck split. DO NOT apply after shuck split to avoid fruit injury. DO NOT make more than 3 pre-harvest applications per season. DO NOT apply within 40 days of harvest.</p>
<b>Crop</b>	<b>Cranberry</b>
<b>Target Disease</b>	Fruit rots
<b>Use Rate L/ha</b>	6.8-11.6
<b>Application Interval Days</b>	10-14
<b>Remarks</b>	<p>Apply at early bloom, late bloom and 10-14 days later. Use the higher rate under severe conditions.</p> <p>Apply at bud break, early bloom, and late bloom. Use the higher rate under severe conditions.</p> <p>DO NOT apply within 50 days of harvest.</p> <p>DO NOT apply BRAVO 500 Agricultural Fungicide to fields when flooded or allow release of irrigation water from bogs for at least 3 days following application.</p> <p>BRAVO 500 Agricultural Fungicide may be applied through sprinkler irrigation equipment.</p> <p>Use 3000 litres of water per hectare through solid set systems only. See application and calibration techniques for sprinkler irrigation under Directions for Use.</p> <p>DO NOT APPLY BY AIR.</p>
<b>Crop</b>	<b>Cranberry</b>
<b>Target Disease</b>	Twigleaf blight and upright dieback
<b>Use Rate L/ha</b>	6.8-11.6
<b>Application Interval Days</b>	10-14
<b>Remarks</b>	<p>Apply at early bloom, late bloom and 10-14 days later. Use the higher rate under severe conditions.</p> <p>Apply at bud break, early bloom, and late bloom. Use the higher rate under severe conditions.</p> <p>DO NOT apply within 50 days of harvest.</p> <p>DO NOT apply BRAVO 500 Agricultural Fungicide to fields when flooded or allow release of irrigation water from bogs for at least 3 days following application.</p> <p>BRAVO 500 Agricultural Fungicide may be applied through sprinkler irrigation equipment.</p> <p>Use 3000 litres of water per hectare through solid set systems only. See application and calibration techniques for sprinkler irrigation under Directions for Use.</p> <p>DO NOT APPLY BY AIR.</p>

# **APPLICATION AND CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION SOLID SET IRRIGATION EQUIPMENT:**

Adjust sprinkler nozzles to prevent direct spray or drift into non-target areas. Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents within desired time periods.

Mix desired amount of BRAVO 500 Agricultural Fungicide for acreage to be covered into quantity of water used during calibration. Operate entire system at normal pressures recommended by the manufacturer of injection equipment for amount of time established during calibration.

BRAVO 500 Fungicide can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed (e.g. as indicated by dye) and continue to operate irrigation system until BRAVO 500 Agricultural Fungicide has been cleared from the last sprinkler head.

DO NOT operate irrigation system without safety valves or other devices to prevent back-siphoning of BRAVO 500 Agricultural Fungicide into water source. Tank containing BRAVO 500 Agricultural Fungicide should be connected to the discharge side of irrigation pump or other pressurized equipment attached to irrigation line. Never inject pesticides into the intake line or the suction side of pump. Irrigation water treated with BRAVO 500 Fungicide should be maintained on the treated area until the water is absorbed by the soil.

<b>Crop</b>	<b>Peach and Nectarine</b>
<b>Target Disease</b>	Blossom blight/Brown rot
<b>Use Rate L/ha</b>	5.0-9.0
<b>Application Interval Days</b>	-
<b>Remarks</b>	<p><b>DO NOT APPLY BRAVO 500 AGRICULTURAL FUNGICIDE WITHIN 10 DAYS OF AN OIL APPLICATION AS IT MAY CAUSE BURNING TO FLOWERS AND LEAF TISSUE.</b></p> <p>Apply 1-3 applications from pink through shuck period. Use higher rate per hectare for trees greater than 6 metres in height, or if weather is warm (above 16°C.) and wet during bloom. Apply in 500-1000 litres of water per hectare. DO NOT apply after shuck split to avoid fruit injury. DO NOT apply within 60 days of harvest.</p> <p>Apply one application per year either as a fall dormant spray at 75-100% leaf drop or in early spring before bud swell/bud break. Apply in at least 1000 litres of water per hectare.</p>
<b>Crop</b>	<b>Peach and Nectarine</b>
<b>Target Disease</b>	Peach leaf curl
<b>Use Rate L/ha</b>	5.0-7.0
<b>Application Interval Days</b>	-
<b>Remarks</b>	<p><b>DO NOT APPLY BRAVO 500 AGRICULTURAL FUNGICIDE WITHIN 10 DAYS OF AN OIL APPLICATION AS IT MAY CAUSE BURNING TO FLOWERS AND LEAF TISSUE.</b></p> <p>Apply 1-3 applications from pink through shuck period. Use higher rate per hectare for trees greater than 6 metres in height, or if weather is warm (above 16°C.) and wet during bloom. Apply in 500-1000 litres of water per hectare. DO NOT apply after shuck split to avoid fruit injury. DO NOT apply within 60 days of harvest.</p> <p>Apply one application per year either as a fall dormant spray at 75-100% leaf drop or in early spring before bud swell/bud break. Apply in at least 1000 litres of water per hectare.</p>

<b>Crop</b>	<b>Strawberry</b>
<b>Target Disease</b>	Botrytis Fruit Rot
<b>Use Rate L/ha</b>	3.5
<b>Application Interval Days</b>	10-12
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain coverage. Apply once in the fall. Apply two pre-bloom sprays the following spring, one when new growth appears and again 10-12 days later. Use ground application equipment only. DO NOT make more than three applications per year. DO NOT apply within 30 days of harvest. DO NOT APPLY BY AIR
<b>Crop</b>	<b>Watermelon, Squash, Pumpkin</b>
<b>Target Disease</b>	Anthrachnose
<b>Use Rate L/ha</b>	3.2
<b>Application Interval Days</b>	7
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when plants are in the first true leaf stage or when conditions are favourable for disease development. Repeat applications at 7 day intervals. Under severe disease conditions, shorten spray interval. DO NOT apply within 1 day of harvest.
<b>Crop</b>	<b>Watermelon, Squash, Pumpkin</b>
<b>Target Disease</b>	Scab
<b>Use Rate L/ha</b>	4.8
<b>Application Interval Days</b>	7
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. Begin applications when plants are in the first true leaf stage or when conditions are favourable for disease development. Repeat applications at 7 day intervals. Under severe disease conditions, shorten spray interval. DO NOT apply within 1 day of harvest.

## CONIFERS

<b>Diseases Controlled</b>	Scleroderris Canker (pines), Swiss Needlecast and Rhabdocline Needlecast (Douglas-fir)
<b>BRAVO 500 Agricultural Fungicide Rate/Hectare</b>	2.4 to 4.8 L
<b>Application Directions</b>	Apply in 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 2 cm in length. Make additional applications at 3 to 4 week intervals until conditions no longer favour disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule

<b>Diseases Controlled</b>	Sirococcus Tip Blight
<b>BRAVO 500 Agricultural Fungicide Rate/Hectare</b>	3.6 to 6 L
<b>Application Directions</b>	Apply in 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 2 cm in length. Make additional applications at 3 to 4 week intervals until conditions no longer favour disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule
<b>Diseases Controlled</b>	Rhizosphaera Needlecast (spruces), Scirrhia brown spot (pines)
<b>BRAVO 500 Agricultural Fungicide Rate/Hectare</b>	9.5 L
<b>Application Directions</b>	Apply in 100 to 1000 litres of water per hectare. Make first application in spring when new shoot growth is 1 to 2 cm in length. Make additional applications at 3 to 4 week intervals until conditions no longer favour disease development. For use in nursery beds, apply the highest rate specified on a 3 week schedule
<b>Diseases Controlled</b>	Lophodermium Needlecast
<b>BRAVO 500 Agricultural Fungicide Rate/Hectare</b>	2.4 to 4.8 L
<b>Application Directions</b>	Apply in 100 to 1000 litres of water per hectare. Begin applications in mid-July to early August before infection occurs. Make additional applications at 3 to 4 week intervals until conditions no longer favour disease development. For use in nursery beds, apply 4.8 L/ha on a 3 week schedule.
<b>Diseases Controlled</b>	Botrytis seedling blight, Phoma twig blight
<b>BRAVO 500 Agricultural Fungicide Rate/Hectare</b>	2.4 to 4.8 L
<b>Application Directions</b>	Apply in 100 to 1000 litres of water per hectare. Begin applications in nursery beds when seedlings are 10 cm tall and when cool, moist conditions favour disease development. Make additional applications at 7 to 14 day intervals as long as disease favourable conditions persist.

### Tank Mixed with QUADRIS® Flowable Fungicide for Control of Early Blight on Potatoes

<b>Diseases Controlled</b>	<b>Early Blight</b> ( <i>Alternaria solani</i> )
<b>Product Rate/Ha</b>	2 L/ha
<b>BRAVO 500 Fungicide</b>	
<b>Product Rate/Ha</b>	500 mL /ha QUADRIS Flowable Fungicide
<b>TANK MIX PARTNER</b>	
<b>Application Timing</b>	Apply on a 7 to 14 day interval, starting prior to disease development.
<b>Notes</b>	Apply as a broadcast foliar spray in sufficient water for thorough coverage. Use the short application interval under high disease pressures.
<p><b>Restrictions:</b> Do not exceed more than 3 applications per hectare per season. Do not apply sequential treatments of BRAVO 500 Fungicide tank mixed with QUADRIS Flowable Fungicide. DO NOT apply to potato plants later than 2 day before harvest.</p> <p>A plant back interval of 30 days for potatoes (root crops) is required.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p>	
<p><b>BRAVO 500 Fungicide with Tank Mix Partner:</b></p> <p>Bravo 500 Fungicide can be tank mixed with QUADRIS Flowable Fungicide for Control of Early Blight on potatoes.</p>	

1. Read all the labels and follow the precautionary statement, directions for use (rates, diseases controlled and application intervals) and other restrictions.
2. Always check the compatibility of BRAVO 500 Fungicide tank mix using a jar test with proportionate amounts of QUADRIS Flowable Fungicide, and the water, before mixing in the spray tank.
3. Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
4. Fill tank at least 1/2 full of clean water.
5. Add first BRAVO 500 Fungicide then QUADRIS Flowable Fungicide next.
6. **DO NOT** leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply in the same day.
7. **DO NOT APPLY BY AIR.**
8. This tank mix can be applied by ground only. Use minimum of 100 L of water per hectare when applying by ground.

Follow recommendations provided by local disease monitoring services or provincial spray calendars regarding the appropriate application timing for protectant fungicides in your area. Cultural practices such as canopy management and removal of overwintered plant debris should be integrated with the use of fungicides to reduce disease incidence. Use the higher rate, and the shorter application interval under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development.

**CAUTION:** QUADRIS Flowable Fungicide has been shown to be extremely phytotoxic to certain apple and crabapple varieties. BRAVO 500 Fungicide tank mixed with QUADRIS Flowable Fungicide should not be applied where there is the possibility of spray drift reaching apple and crabapple trees. **DO NOT** use sprayers used to apply BRAVO 500 Fungicide tank mixed with QUADRIS Flowable Fungicide to spray apples or crabapples.

### Field Application

Do not apply BRAVO 500 Fungicide tank mixed with QUADRIS Flowable Fungicide through irrigation equipment.

Do not apply during periods of dead calm or when winds are gusty. Do not overspray non-target terrestrial or aquatic habitats. Do not contaminate aquatic habitats when cleaning and rinsing spray equipment or containers. Do not apply with spray droplets smaller than the ASAE medium classification. Apply using nozzle tips and in sufficient water volume for thorough coverage (i.e. at least 100 litres per hectare).

A buffer zone of 3 metres is required between the downwind point of direct application and the closest edge of sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) and estuarine/marine habitats.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the use(s) described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use(s) described below.

<b>Crop</b>	<b>Evening Primrose</b>
<b>Target Disease</b>	Blight; Dieback
<b>Use Rate L/ha</b>	2.3
<b>Application Interval Days</b>	14-28
<b>Remarks</b>	Fall applications only. Apply to direct seeded fields after emergence when disease symptoms appear. Reapply at the shorter interval if conditions favour disease. Maximum of two applications per year.
<b>Crop</b>	<b>Ginseng</b>
<b>Target Disease</b>	Leaf spot; Grey mold
<b>Use Rate L/ha</b>	2.4-4.8
<b>Application Interval Days</b>	7-10
<b>Remarks</b>	Start applications when disease threatens and repeat at 7-10 day intervals. DO NOT make more than six applications per season. DO NOT apply within 14 days of harvest. DO NOT feed treated ginseng (roots or foliage) to livestock.
<b>Crop</b>	<b>Asparagus</b>
<b>Target Disease</b>	Purple Spot ( <i>Stemphylium vesicarium</i> ), Rust ( <i>Puccinia asparagi</i> )
<b>Use Rate L/ha</b>	3.4
<b>Application Interval Days</b>	14
<b>Remarks</b>	Begin applications following final harvest of spears. Apply BRAVO 500 Fungicide in 100 - 200 L/ha of water. DO NOT apply more than 3 applications per crop season. DO NOT apply within 190 days of harvest. DO NOT APPLY BY AIR.
<b>Crop</b>	<b>Lowbush (Wild) Blueberry (Sprout Year)</b>
<b>Target Disease</b>	Phomopsis canker ( <i>Phomopsis vaccinii</i> ).  Leaf spot diseases (suppression only) including Septoria leaf spot ( <i>Septoria</i> sp.), rust ( <i>Naohidemyces vaccinii</i> ) and Valdensinia leaf spot ( <i>Valdensinia heterodoxa</i> ).
<b>Use Rate L/ha</b>	7.2
<b>Application Interval Days</b>	Make the first application in early to mid-June of the sprout year. Follow with a second application in early August. Application should be based on the level of disease pressure in the previous year.
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in 200 - 950 L/ha of water. DO NOT exceed two applications per season. DO NOT apply within 54 days of harvest. DO NOT APPLY BY AIR.

<b>Crop</b>	<b>Crop Group 9 – Cucurbit Vegetables (Citron melon, musk melon, watermelon, chayote (fruit), Chinese waxgourd, cucumber, gherkin, edible gourd, Momordica spp., pumpkin, summer and winter squash)</b>
<b>Target Disease</b>	Downy mildew, Powdery mildew
<b>Use Rate L/ha</b>	4.8
<b>Application Interval Days</b>	Begin applications at the first true leaf stage or when conditions are favourable for disease development. Repeat applications at 7 day intervals. Under severe disease conditions, shorten the spray interval.
<b>Remarks</b>	Apply BRAVO 500 Agricultural Fungicide in sufficient water to obtain adequate coverage. DO NOT exceed seven (7) applications per season. DO NOT apply within one (1) day of harvest. DO NOT APPLY BY AIR.

### Resistance Management Recommendations

For resistance management, BRAVO 500 Fungicide contains a Group M fungicide. Any fungal population may contain individuals naturally resistant to BRAVO 500 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 BRAVO 500 Fungicide or other Group M fungicides with different groups that control the same pathogens.

Avoid application of more than the maximum number listed in the label and consecutive sprays of BRAVO 500 Fungicide or other fungicides in the same group in a season.

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 sign of 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 disease problems in your area.

For further information or to report suspected resistance, contact company representatives at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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