

## **Allegro 500F Agricultural Fungicide**

**COMMERCIAL**

**READ THE LABEL BEFORE USING**

**GUARANTEE:** Fluazinam 40.0%

Contains 500 grams of Fluazinam per litre



**CAUTION POISON  
WARNING-SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO: 27517 PEST CONTROL PRODUCTS ACT

Net Contents: 18.9 litres

ISK Biosciences Corporation  
7470 Auburn Road  
Suite A  
Concord, Ohio 44077 U.S.A.  
1-440-357-4640 Outside Canada  
(Long distance charges apply)

## DIRECTIONS FOR USE

### DO NOT APPLY BY AIR.

Allegro 500F Agricultural Fungicide can be used effectively in dilute spray. Thorough, uniform coverage is essential for disease control.

NOTE: Slowly invert container several times to assure uniform mixture.

Dosage rates on this label indicate litres of Allegro 500F Agricultural Fungicide per hectare, unless otherwise stated. Under conditions which favour disease development the shortest application interval should be used.

The required amount of Allegro 500F Agricultural Fungicide should be added slowly into the spray tank during filling. Keep agitator running when filling spray tank and during spray operations.

### Rotational Crop Restrictions

Areas treated with Allegro 500F Agricultural Fungicide may be replanted with potatoes and dry shelled beans as soon as practical after the last application. Other root crops and leafy vegetables can be planted 30 days after the last application. All other crops can be planted 70 days after the last application.

### Integrated Pest Management

Allegro 500F Agricultural Fungicide is an excellent disease control agent when used according to label directions for control of late blight of potato. Allegro 500F Agricultural Fungicide is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease resistant potato varieties, cultural practices, biological control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. Practices known to reduce disease development should be followed. Consult your provincial agricultural authorities for additional IPM strategies established in your area. Allegro 500F Agricultural Fungicide may be used in disease forecasting programs, which recommend application timing based on environmental factors that favour disease development.

### Application Rate

<i>Crop</i>	<i>Disease Controlled</i>	<i>Rate/Hectare (Product)</i>	<i>Maximum Number of Applications per Year</i>
Potato	Late Blight ( <i>Phytophthora infestans</i> )	0.4 litres	10

**DIRECTIONS FOR USE**  
(Continued)

**Recommended Application**

Begin applications when the plants are 15 to 20 centimetres tall or when conditions favour disease development. Repeat application at intervals of 7 to 10 days. Apply Allegro 500F Agricultural Fungicide in sufficient water to obtain adequate coverage of foliage. Spray volumes to be used vary with amount of plant growth. Spray volume usually will range from 200 to 600 litres per hectare. **DO NOT** apply more than the maximum seasonal use rate of 4.0 litres per hectare during each growing season. **DO NOT** apply within 14 days prior to harvest. **DO NOT** make more than 3 sequential applications of Allegro 500F Agricultural Fungicide before alternating to a fungicide with a different mode of action. **DO NOT** apply more than 10 applications per year.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

**Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

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

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.

**DIRECTIONS FOR USE**  
(Continued)

Method of Application	Crop	Buffer zones (metres) Required for the Protection of:		
		Freshwater Habitat:	Estuarine/Marine Habitat:	Terrestrial Habitat:
Field sprayer*	Bushberries (Crop Subgroup 13B)	40	35	1
	Cabbage, Broccoli, and cauliflower	40	35	1
	Edible-podded legume vegetables, except peas	35	25	1
	Potato	26	19	1
	Dry shelled beans	35	25	1
	Ginseng	35	30	1
	Carrots	35	30	N/A
Airblast sprayer	Apples	45	40	N/A

\*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

**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 uses described below were developed by persons other than ISK Biosciences and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. ISK Biosciences itself makes no representation or warranty with respect to performance (efficacy) 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 ISK Biosciences harmless from any claims based on efficacy or phytotoxicity in connection with the uses described below.

**DIRECTIONS FOR USE**

Pest(s)	Control of Clubroot ( <i>Plasmodiophora brassicae</i> )
Site (Crop)	Bok choy Chinese cabbage; broccoli; broccoli raab; Brussels sprouts; cabbages; cauliflower; cavalo broccolo; Chinese broccoli; Chinese mustard cabbage; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; Chinese Napa cabbage and rape greens
Rate of Application and Spray Volume <i>(include adjuvant rate, if being proposed)</i>	<p><u>Transplant treatment:</u> Mix 50 mL of Allegro 500F Agricultural Fungicide with water to make a 100 L solution. Apply 100 mL of solution per plant immediately after transplanting.</p> <p><u>Pre-transplant treatment:</u> Apply Allegro 500F Agricultural Fungicide at a rate of 2.9 L product in 500 L of water per hectare in a minimum band of 25 cm along the planting row and incorporate to a depth of 15 to 20 cm with a precision incorporator in the same operation. Transplant the seedlings into the treated band. If planting to a bed, a broadcast application could be made prior to forming the bed.</p>
Number of Applications	Do not make more than 1 application per season.
Pre-Harvest Interval	<p><b>Head and Stem Brassica subgroup 5A:</b> (Broccoli; Chinese broccoli; Brussels sprouts; cabbages; Chinese Napa cabbage; Chinese mustard cabbage; cauliflower; cavalo broccolo; kohlrabi) - <b>65 days</b></p> <p><b>Leafy Brassica Greens subgroup 5B:</b> (Broccoli raab; Bok choy Chinese cabbage; collards, kale; mizuna; mustard greens; rape greens) - <b>30 days</b></p>

Pest(s)	<p>Highbush, lowbush blueberry - suppression of Mummyberry (<i>Monilia vaccinii-corymbosi</i>), Phomopsis fruit rots (<i>Phomopsis vaccinii</i>) and fruit anthracnose (<i>Colletotrichum gloeosporioides</i> and <i>C. acutatum</i>)</p> <p>Currants, Elderberry, Gooseberry and Huckleberry – suppression of fruit anthracnose (<i>Colletotrichum gloeosporioides</i> and <i>C. acutatum</i>)</p>
Site (Crop)	Highbush, lowbush blueberry, currant, elderberry, gooseberry, huckleberry
Rate of Application and Spray Volume	2.24 litres per hectare in 300 to 1000 litres of water per hectare. Apply Allegro 500F Agricultural Fungicide as a foliar spray.
Number of Applications	Do not make more than 4 applications per season.
Application Interval	7 to 10 days
Application Timing	Begin applications at bud break and repeat on a 7 to 10 day interval to petal fall.
Pre-Harvest Interval	30 days

Pest(s)	White mold ( <i>Sclerotinia sclerotiorum</i> )
Site (Crop)	Edible-podded legume vegetables (except pea): Bean ( <i>Phaseolus</i> spp.) (includes runner bean, snap bean, wax bean). Bean ( <i>Vigna</i> spp.) (includes asparagus bean, Chinese longbean, moth bean, yardlong bean), jackbean, soybean (immature seed) and sword bean
Rate of Application and Spray Volume	1.0 litres per hectare in 300 to 1000 litres of water per hectare. Apply Allegro 500F Agricultural Fungicide as a foliar spray.
Number of Applications	2 per year
Application Interval	7 to 10 days
Application Timing	Begin applications when plants are at first bloom to 10% bloom; i.e. when 10% of the plants have at least one open bloom. Make a second application 7 to 10 days later, but no later than when 50% of the plants have at least one open bloom.
Pre-Harvest Interval	14 days
Pest(s)	White mold ( <i>Sclerotinia sclerotiorum</i> )
Site (Crop)	Dry Shelled Beans
Rate of Application and Spray Volume	1.0 L of product /ha Apply Allegro 500F Agricultural Fungicide in sufficient water to obtain adequate coverage of foliage. Spray volume usually will range from 200 to 600 litres per hectare.
Number of Applications	2 applications per year. <b>DO NOT</b> apply more than the maximum seasonal use rate of 2.0 litres per hectare during each growing season.
Application Interval	7 to 10 days
Application Timing	Begin application when plants are at early to mid bloom (10 to 50% bloom), and make one more application 7-10 days later.
Pre-Harvest Interval	30 days

Pest(s)	Rhizoctonia root rot ( <i>Rhizoctonia solani</i> ), Alternaria blight ( <i>Alternaria panax</i> ) and Botrytis blight ( <i>Botrytis cinerea</i> )
Site (Crop)	Ginseng
Rate of Application and Spray Volume	1.2 litres per hectare in 100 to 500 litres of water per hectare.
Number of Applications	4 per year
Application Interval	7-14 days
Application Timing	For control of Rhizoctonia root rot, begin at seed then continue on a 14-day interval. For control of Alternaria blight and Botrytis blight, begin when the disease first appears or when conditions are favourable for disease development. Repeat applications as needed on a 7 to 14-day interval.
Pre-Harvest Interval	30 days
Pest(s)	For control of: White Mould ( <i>Sclerotinia sclerotiorum</i> ) Alternaria Leaf Blight ( <i>Alternaria dauci</i> )
Site (Crop)	Carrots
Method of Application	Foliar
Rate of Application and Spray Volume (include adjuvant rate, if being proposed)	1.16 L of product/ha Apply Allegro 500F Agricultural Fungicide in sufficient water to obtain adequate coverage of foliage as a directed band spray over the crop. Spray volume usually will range from 200 to 600 litres per hectare.
Number of Applications	4 applications per year for control of Alternaria leaf blight. 3 application per year for control of white mould, unless a rotational product for control of the disease is registered.
Application Interval	7 day interval.
Application Timing	The first application is to be made preventively or at the first sign of disease symptoms. All subsequent applications are to be applied at 7-day intervals.
Pre-Harvest Interval	7 days

Pest(s)	<p><b>For Control of:</b>  Apple Scab (<i>Venturia inaequalis</i>)  Flyspeck (<i>Schizothyrium pomi</i>)  Sooty blotch (<i>Gloeodes pomigena</i>)</p> <p><b>For Suppression of MITES:</b>  Two-spotted spider mite (<i>Tetranychus urticae</i>)  European red mite (<i>Panonychus ulmi</i>)  Apple rust mite (<i>Aculus schlechtendali</i>)</p>
Site (Crop)	Apples
Method of Application	Foliar
Rate of Application and Spray Volume	0.75 to 1.0 L of product/ha Spray volume: minimum of 1000 liters per hectare.
Number of Applications	Maximum of 9 applications per year. No more than 3 sequential applications of Allegro 500F before alternating to another fungicide belonging to a different chemical family.
Application Interval	7 to 14-day interval.
Application Timing	<p>Allegro 500F should be applied as a broadcast spray on a preventative basis. For apple scab control, begin applications at green tip or when conditions are favorable for primary scab development. All subsequent applications are to be made at 7 to 14-day intervals. The higher rate and shortest intervals should be used for more susceptible varieties and/or heavy disease pressure.</p> <p>For control of flyspeck and sooty blotch, begin applications before disease occurs and continue on a 7- to 14-day schedule. Use the higher rate and shorter interval when disease pressure is high.</p> <p>When Allegro 500F Agricultural Fungicide is used as directed to control listed disease in apples, suppression of European red mite, apple rust mite and two-spotted spider mite present at the time can be expected.</p>
Pre-Harvest Interval	28 days
Restricted Entry Interval (REI)	Do not enter or allow worker entry into treated apples to perform thinning activities during the restricted entry interval (REI) of 3 days.

## **Resistance Management Recommendations**

For resistance management, please note that Allegro 500F Agricultural Fungicide contains fluazinam, a Group 29 fungicide. Any fungal population may contain individuals naturally resistant to this product and other Group 29 fungicides. The resistance biotypes may dominate the fungal population if these fungicides are used repeatedly in the same field. 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:**

For resistance management, please note that Allegro 500F Agricultural Fungicide contains a Group 29 fungicide which is considered to have a low risk of resistance development. However, as a general principle, it is recommended not to rely exclusively on the same product for pest control. To prolong effectiveness of this product, the following resistance management strategies should be followed:

- Do not make more than three consecutive sprays of Allegro 500F Agricultural Fungicide or other Group 29 fungicides in a block sequence before switching to a fungicide with a different mode of action. Several three-application blocks of Allegro 500F Agricultural Fungicide may be applied in a season if separated by applications of fungicides with a different mode of action.
- 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 efficiency of all fungicides used in the disease management program and record other factors that may influence fungicide performance and/or disease development.
- If this product appears to be no longer effective against a pathogen which it previously controlled or suppressed, contact the manufacturer and your local extension specialist or certified crop advisor to assist in determining the cause of reduced performance.
- 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 Todd Denofreo at 1-440-357-4651 Outside Canada (Long distance charges apply) or at denofreot@iskbc.com.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN**

**DO NOT** get on skin.

**DO NOT** take internally, harmful if swallowed.

Causes skin irritation. Harmful if absorbed through skin. Avoid contact with eyes. Potential skin sensitizer. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash exposed areas of skin thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

Wear coveralls over long sleeved shirt, long pants, chemical resistant gloves, socks and footwear during mixing, loading, application, clean up and repair.

Avoid breathing spray mist.

**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.

Custom applicators must use ground boom equipment with an enclosed cab. Do not enter or allow workers entry into treated areas during the restricted-entry interval (REI) of 24 hours.

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

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 web site at: [www.croplife.ca](http://www.croplife.ca).

## **PESTICIDE STORAGE**

Store product in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

## ENVIRONMENTAL HAZARDS

**TOXIC** to aquatic organisms, non-target terrestrial plants and wild mammals. Observe buffer zones under **DIRECTIONS FOR USE**.

Fluazinam is persistent and will carry over; it is recommended that the product, Allegro 500F Agricultural Fungicide containing fluazinam, not be used in areas treated with this product during the previous season.

## 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 a 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.

**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.

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

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

5. 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.

#### **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 and property that arises from any such use of this product.