

**GROUP 29 FUNGICIDE**

## Allegro® 500F Agricultural Fungicide

**COMMERCIAL**

**SUSPENSION**

**ACTIVE INGREDIENT:**

Fluazinam ..... 40.0%

Contains 1,2-benzisothiazolin-3-one at 0.01% OR 2-bromo-2-nitropropane-1,3-diol at 0.0044% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00042% and 2-methyl-4-isothiazolin-3-one at 0.00014% as preservatives.

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



**WARNING-SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO: **27517**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **3.8 L to 18.9 L**

ISK Biosciences Corporation  
7470 Auburn Road, Suite A  
Concord, Ohio 44077 U.S.A. 1-877-706-4640

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

Label

## 1.0 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.

## 2.0 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 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.

## 3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

## 4.0 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.

**DO NOT** apply using handheld mist blower/airblast or handheld fogging equipment.

Avoid breathing spray mist.

**Restricted-Entry Interval (REI):** Do not enter or allow workers entry into treated areas during the restricted-entry interval (REI) of 24 hours.

Apply only to agricultural crops 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 inversions, application equipment and sprayer settings.

## **5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Custom applicators must use ground boom equipment with an enclosed cab. Gloves are not required during application within a closed cab.

For application using mechanically-pressurized handheld equipment, applicators must wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using this product, do not eat, drink or use tobacco (including smoking).

## **6.0 ENVIRONMENTAL PRECAUTIONS**

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

Fluazinam is persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing fluazinam during the previous season.

## 7.0 STORAGE

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

## 8.0 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.

### **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.
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### **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 reuse this container for any other purpose.

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

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Pamphlet

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Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

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Avoid application when heavy rain is forecast.

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

## 9.0 DIRECTIONS FOR USE

### 9.1 General Information

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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. This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-87-SYNGENTA (1-877-964-3682) for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank-mixes under all environmental conditions or for all crop varieties. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

### 9.2 Ground Application

#### 9.2.1 General Information

**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.

### 9.2.2 Mixing Instructions

**NOTE:** WG and DF formulations are preferentially batch mixed.

**NOTE:** SC, SN, and SL formulations may be inducted or batch mixed.

**NOTE:** EC formulations are preferentially batch mixed.

It is **NOT** recommended to combine solid (WG or DF) formulations with liquid tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add liquid tank mix partners by induction or as an additional batch mix. When tank mixing multiple products, follow the mixing order outlined below:

1. Spray equipment should be thoroughly flushed with clean water before mixing Allegro 500F Fungicide.
2. Fill spray tank 1/2 full with carrier. Engage gentle agitation.
3. Pour in the required amount of wettable powder or wettable granule, if applicable.
4. Fill tank 3/4 full and add the Allegro 500F Fungicide and other liquid products, if applicable.
5. Fill tank 9/10 full and add emulsifiable concentrate, liquid solutions or emulsifiable oils, as required. If adding emulsifiable oils, avoid excessive agitation to prevent mixture from forming a grease-like mass and settling out.
6. Finish filling tank. Maintain gentle agitation during mixing and spraying operations.
7. Do not let stand without agitation.
8. When using a mixture of Allegro 500F Fungicide and emulsifiable oil, clean tank immediately after use with a strong detergent and clean water.

### 9.2.3 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 100 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use only ASAE medium nozzles rated as delivering droplets of volume median diameter of 300 microns or greater. The use of higher water volumes and larger spray tip sizes will generally increase spray deposition and reduce drift.
3. Pressure: As recommended by the nozzle manufacturer to achieve ASAE medium sized droplets.
4. Apply at uniform speed and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to avoid potential crop injury from over application.

### 9.2.4 Equipment Clean-Up

#### Before Spraying:

Prior to using Allegro 500F Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

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#### After Spraying:

Thoroughly clean application equipment immediately after spraying. **DO NOT** allow Allegro 500F Fungicide residue to dry within application equipment.

When using tank mixes, consult the tank-mix partner label for additional clean-up instructions. The following recommendations are provided:

1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
2. Remove all nozzles and screens and wash separately.
3. Dispose of all rinsate in accordance with provincial regulations.

### **9.3 Aerial Application**

#### **9.3.1 General Information**

**Aerial application:** **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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. Where 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.

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 *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

#### **9.3.2 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.

### 9.3.3 Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call Syngenta Canada, Inc. at 1-877-964-3682 or obtain technical advice from the distributor or your provincial agricultural representative.

Volume: Apply the recommended rate in a minimum spray volume of 45 litres per hectare.

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.

Allegro 500F Fungicide treatments should be integrated into an overall disease management strategy that includes selection of varieties with disease tolerance, plant residue management, crop rotation, and proper timing and placement of fertilizer and irrigation. Fungicide applications should begin prior to disease infection and continue throughout the season following a resistance management strategy (see **Resistance Management Recommendations**).

### 9.3.4 Mixing Instructions

Mixing this product directly in the aircraft hopper **IS NOT** recommended. The use of chemical handling or managing equipment to load the hopper **IS** recommended. This product **MAY BE** inducted into a hopper which is prefilled with water or when the product and water are mixed prior to entering the hopper. This product **MAY BE** batch mixed and pumped into the hopper. In all cases the chemical handling equipment and hopper interior must be clean prior to use.

**NOTE:** WG and DF formulations are preferentially batch mixed.

**NOTE:** SC, SN, and SL formulations may be inducted or batch mixed.

**NOTE:** EC formulations are preferentially batch mixed.

It is **NOT** recommended to combine solid (WG or DF) formulations with liquid tank mix partners within a single batch. Batch mix WG or DF formulations first, pump into the hopper, and then add liquid tank mix partners by induction or as an additional batch mix. When tank mixing multiple products, follow the mixing order outlined below:

1. Pump water into the hopper to at least  $\frac{1}{4}$  to  $\frac{1}{2}$  of the desired spray volume. Engage hopper circulation, if possible.
2. Thoroughly batch mix any WG or DF formulation mix partners and agitate to ensure complete mixing. Pump into the hopper.
3. Induct or thoroughly batch mix SE or SC formulations.

4. Thoroughly batch mix any EC formulation mix partners. EC formulations may be added to the batch from Step 3, if desired.
5. Induct or thoroughly batch mix Allegro 500F Fungicide and any solution (SN or SL) formulation mix partners. SN/SL formulations may be added to the batch from Step 3, if desired.
6. Pump batch mixed SC, EC, and/or SN/SL products into the hopper.
7. Finish filling the hopper with water.
8. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
9. Spray the pesticide suspension the same day as mixing.
10. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

### 9.3.5 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 45 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use only ASAE medium or coarse nozzles rated as delivering droplets of volume median diameter of 300 microns or greater.
3. Pressure: As recommended by the nozzle manufacturer to achieve ASAE medium or coarse sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

### 9.3.6 Equipment Clean-Up

#### Before Spraying:

- Prior to using Allegro 500F Fungicide, ensure that the hopper, chemical handling equipment, lines and filter are thoroughly cleaned.

#### After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow Allegro 500F Fungicide residue to dry within application equipment.
- When using tank mixes, consult the tank-mix partner label for additional clean-up instructions.
- The following recommendations are provided:
  1. Drain and flush tank walls, boom and all hoses for ten minutes with a clean water/detergent mixture. Rinse with clean water. **DO NOT** clean application equipment near desirable vegetation, wells or other water sources.
  2. Remove all nozzles and screens and wash separately.
  3. Dispose of all rinsate in accordance with provincial regulations.

### 9.4 Spray Buffer Zones

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

The spray 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.

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat:	Estuarine/Marine Habitat:	Terrestrial Habitat
Field sprayer	Potato		30	25	1
	Edible-podded legume vegetables (except peas), dry shelled beans (except soybean), grapes		35	25	0
	Soybeans		35	30	0
	Ginseng, bulb onion Crop Subgroup (3-07A), carrots		35	30	1
	Cucurbit vegetables (Crop Group 9), field peppers		40	30	1
	Highbush and lowbush blueberry, currant, elderberry, gooseberry, huckleberry		40	35	1
Airblast sprayer	Apples		45	40	1
	Grapes (except table grapes)	Early season	45	40	1
		Late season	35	30	1
Aerial	Potato	Fixed wing	70	30	15
		Rotary wing	55	25	10
	Edible-podded legume vegetables (except peas), dry shelled beans, soybeans.	Fixed wing	150	60	0
		Rotary wing	125	45	0

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray 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 spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.



## 9.5 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.

## 9.6 Integrated Pest Management

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 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.

## 10.0 CROP USE DIRECTIONS

### 10.1 Potatoes

<b>CROP</b>	Potatoes
<b>DISEASE CONTROLLED</b>	Late blight ( <i>Phytophthora infestans</i> )
<b>USE RATE</b>	0.4 L/ha
<b>APPLICATION TIMING</b>	Begin applications when the plants are 15 – 20 cm tall or when conditions favour disease development. Repeat applications at intervals of 7 – 10 days.
<b>DISEASE CONTROLLED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> )
<b>USE RATE</b>	0.4 – 0.6 L/ha
<b>APPLICATION TIMING</b>	Begin applications at full bloom. Repeat applications at intervals of 7 – 10 days. When white mould pressure is low to moderate, use 400 mL. When conditions favour moderate to high white mould pressure, increase the rate to 600 mL.
<b>SPRAY VOLUME</b>	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 for ground application. For aerial application, apply in a minimum of 45 litres per hectare.
<b>APPLICATION INTERVAL</b>	7 – 10 days
<b>MAXIMUM NUMBER OF CONSECUTIVE SPRAYS</b>	3 before alternating to a fungicide with a different mode of action
<b>MAXIMUM NUMBER OF APPLICATIONS PER SEASON</b>	For late blight, 10 applications
<b>MAXIMUM USE RATE/SEASON</b>	4.0 L/ha

<b>PRE-HARVEST INTERVAL (PHI)</b>	14 days
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## 10.2 Soybeans

<b>CROP</b>	Soybeans
<b>DISEASE CONTROLLED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> )
<b>USE RATE</b>	0.88 – 1.17 L/ha
<b>DISEASE SUPPRESSED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> )
<b>USE RATE</b>	0.44 L/ha
<b>SPRAY VOLUME</b>	Apply Allegro 500F Agricultural Fungicide in sufficient water to obtain adequate coverage of foliage. Spray volume will range from 100 to 600 litres per hectare (ground application) or a minimum of 45 litres of water per hectare (aerial application).
<b>APPLICATION TIMING</b>	Begin applications at the R1 (early bloom) to R2 (full bloom) stage of development and, if needed, again 10- to 14-days later at early pod formation (R3). As a preventative spray or with conditions favoring low disease pressure, use the low rate. For conditions favoring moderate to high disease development, use high rate.
<b>APPLICATION INTERVAL</b>	10 – 14 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	2
<b>MAXIMUM USE RATE/SEASON</b>	2.34 L/ha
<b>PRE-HARVEST INTERVAL (PHI)</b>	DO NOT apply after growth stage R3, early pod formation.
<b>NOTES</b>	DO NOT allow livestock to graze treated areas. DO NOT feed hay from treated fields to livestock.

## 11.0 MINOR USES

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

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than ISK Biosciences under the User Requested Minor Use Label Expansion program. For these uses, ISK Biosciences has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

### 11.1 Brassica Vegetables

<b>CROPS</b>	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
<b>DISEASE CONTROLLED</b>	Clubroot ( <i>Plasmodiophora brassicae</i> )
<b>APPLICATION TIMING</b>	Pre-transplant Treatment
<b>USE RATE</b>	2.9 L/ha
<b>SPRAY VOLUME</b>	500 L/ha
<b>APPLICATION METHOD</b>	Apply Allegro 500F Agricultural Fungicide 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.
<b>APPLICATION TIMING</b>	Transplant Treatment
<b>USE RATE</b>	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.
<b>MAXIMUM NUMBER OF APPLICATIONS PER SEASON</b>	1
<b>PRE-HARVEST INTERVAL (PHI)</b>	<b>Head and Stem Brassica Crop Subgroup 5A:</b> (Broccoli; Chinese broccoli; Brussels sprouts; cabbages; Chinese Napa cabbage; Chinese mustard cabbage; cauliflower; cavalo broccolo; kohlrabi) - <b>65 days</b> <b>Leafy Brassica Greens Crop Subgroup 5B:</b> (Broccoli raab; Bok choy Chinese cabbage; collards, kale; mizuna; mustard greens; rape greens) - <b>30 days</b>
<b>NOTES</b>	<b>DO NOT</b> apply by air.

## 11.2 Berries and Small Fruit

<b>CROPS</b>	Highbush, lowbush blueberry
<b>DISEASE SUPPRESSED</b>	Mummyberry ( <i>Monilinia vaccinii-corymbosi</i> ), fruit anthracnose ( <i>Colletotrichum gloeosporioides</i> and <i>C. acutatum</i> )
<b>USE RATE</b>	1.46 - 2.24 L/ha
<b>DISEASE SUPPRESSED</b>	Phomopsis fruit rot ( <i>Phomopsis vaccinia</i> )
<b>USE RATE</b>	2.24 L/ha
<b>DISEASE CONTROLLED</b>	Botrytis grey mould ( <i>Botrytis cinerea</i> )
<b>USE RATE</b>	1.46 – 2.24 L/ha
<b>CROPS</b>	Currants, elderberry, gooseberry and huckleberry
<b>DISEASE SUPPRESSED</b>	Fruit anthracnose ( <i>Colletotrichum gloeosporioides</i> and <i>C. acutatum</i> )
<b>USE RATE</b>	2.24 L/ha
<b>SPRAY VOLUME</b>	300 – 1000 L/ha
<b>APPLICATION METHOD</b>	Foliar spray
<b>APPLICATION TIMING</b>	For Botrytis grey mould, make the first application during early bloom. A second application may be made 7 to 10 days later. Within the stated ranges, use the higher rate and shorter interval under conditions favouring high disease pressure.  For other uses, begin applications at bud break and repeat on a 7 to 10 day interval to petal fall.
<b>APPLICATION INTERVAL</b>	7 – 10 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER SEASON</b>	2
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

## 11.3 Grapes

<b>CROP</b>	Wine Grapes									
<b>DISEASE CONTROLLED</b>	Dead arm ( <i>Phomopsis viticola</i> ) Botrytis grey mould ( <i>Botrytis cinerea</i> )									
<b>USE RATE</b>	1.0 L/ha									
<b>APPLICATION TIMING</b>	For control of botrytis grey mould, begin applications at early bloom. A second application may be made during berry touch, veraison or pre-harvest. Applications must be a minimum of 21 days apart. Thorough coverage of bunches is essential. For control of dead arm, the first application is to be made preventively at bud burst stage. If disease pressure is high, use the shortest interval.									
<b>CROP</b>	Grapes (except table grapes)									
<b>DISEASE CONTROLLED</b>	Botrytis grey mould ( <i>Botrytis cinerea</i> )									
<b>USE RATE</b>	1.0 L/ha									
<b>APPLICATION TIMING</b>	For control of botrytis grey mould, begin applications at early bloom. A second application may be made during berry touch, veraison or pre-harvest. Applications must be a minimum of 21 days apart. Thorough coverage of bunches is essential.									
<b>DISEASE SUPPRESSED</b>	Anthracnose ( <i>Elsinoe ampelina</i> )									
<b>USE RATE</b>	1.2 L/ha									
<b>APPLICATION TIMING</b>	The first application is to be made preventively before the onset of the disease at pre-bloom when shoots are 2-5 cm long or earlier at first signs of anthracnose symptoms. Repeat applications as needed on a 7-14 day interval. Use shorter intervals when disease pressure is expected to be high under favourable conditions and during rapid crop growth and longer interval when disease pressure is expected to be low.									
<b>SPRAY VOLUME</b>	Minimum 300 L/ha water									
<b>APPLICATION METHOD</b>	Foliar, broadcast									
<b>APPLICATION INTERVAL</b>	7 – 14 days									
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	For dead arm, 2 applications per year For anthracnose 4 applications per year; not more than 3 consecutive applications.									
<b>RESTRICTED-ENTRY INTERVAL (REI)</b>	<p><b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) specified in the following table:</p> <table border="1"> <thead> <tr> <th>Post-application activities</th> <th>Restricted-entry interval</th> </tr> </thead> <tbody> <tr> <td>Tying/training, leaf pulling by hand</td> <td>9 days</td> </tr> <tr> <td>Hand-set irrigation</td> <td>2 days</td> </tr> <tr> <td>All other activities</td> <td>12 hours</td> </tr> </tbody> </table>		Post-application activities	Restricted-entry interval	Tying/training, leaf pulling by hand	9 days	Hand-set irrigation	2 days	All other activities	12 hours
Post-application activities	Restricted-entry interval									
Tying/training, leaf pulling by hand	9 days									
Hand-set irrigation	2 days									
All other activities	12 hours									
<b>PRE-HARVEST INTERVAL (PHI)</b>	21 days									
<b>NOTES</b>	<p><b>DO NOT</b> apply by air.</p> <p>Use on grape cultivars intended for wine production only.</p>									

### 11.4 Legume Vegetables

<b>CROPS</b>	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
<b>DISEASE CONTROLLED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> )
<b>USE RATE</b>	0.6 – 1.0 L/ha
<b>SPRAY VOLUME</b>	300 – 1000 L/ha water (ground application) OR minimum 45 L/ha water (aerial application)
<b>APPLICATION METHOD</b>	Foliar spray
<b>APPLICATION TIMING</b>	For control of white mould, 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. Under conditions favorable for severe disease development use the higher rate
<b>APPLICATION INTERVAL</b>	7 – 10 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	2
<b>PRE-HARVEST INTERVAL (PHI)</b>	14 days
<b>CROPS</b>	Dry Shelled Beans, except soybean
<b>DISEASES CONTROLLED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> ), Anthracnose ( <i>Colletotrichum lindemuthianum</i> )
<b>USE RATE</b>	0.6 – 1.0 L/ha
<b>SPRAY VOLUME</b>	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 (ground application) or a minimum of 45 litres of water per hectare (aerial application).
<b>APPLICATION TIMING</b>	For control of white mould make the first application at 10 to 30% bloom (e.g. when 10 to 30% of the plants have at least one (1) open bloom). If needed, a second application may be applied 7 to 10 days later. Under conditions favorable for severe disease development use the higher rate. For control of Anthracnose make first application at 10-30% bloom (e.g. when 10 to 30% of the plants have at least (1) open bloom). If needed, a second application may be applied 10 to 14 days later. Under conditions favourable for severe disease development use higher rate.
<b>APPLICATION INTERVAL</b>	White mould: 7 – 10 days Anthracnose: 10 – 14 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	2
<b>MAXIMUM USE RATE/SEASON</b>	<b>DO NOT</b> apply more than the maximum seasonal use rate of 2.0 litres per hectare during each growing season.
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days

**11.5 Ginseng**

<b>CROP</b>	Ginseng
<b>DISEASES CONTROLLED</b>	Rhizoctonia root rot ( <i>Rhizoctonia solani</i> ), Alternaria blight ( <i>Alternaria panax</i> ) and Botrytis blight ( <i>Botrytis cinerea</i> )
<b>USE RATE</b>	1.2 L/ha
<b>SPRAY VOLUME</b>	100 – 500 L/ha of water
<b>APPLICATION TIMING</b>	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.
<b>APPLICATION INTERVAL</b>	7 – 14 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	4
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

**11.6 Carrot**

<b>CROP</b>	Carrot
<b>DISEASES CONTROLLED</b>	White mould ( <i>Sclerotinia sclerotiorum</i> ) Alternaria leaf blight ( <i>Alternaria dauci</i> )
<b>USE RATE</b>	1.16 L/ha
<b>SPRAY VOLUME</b>	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.
<b>APPLICATION TIMING</b>	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.
<b>APPLICATION INTERVAL</b>	7 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	For white mould, no more than 3 sequential applications before rotation with a non-Group 29 fungicide. 4 applications per year for control of Alternaria leaf blight.
<b>PRE-HARVEST INTERVAL (PHI)</b>	7 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

## 11.7 Apple

<b>CROP</b>	Apple
<b>DISEASES CONTROLLED</b>	Apple Scab ( <i>Venturia inaequalis</i> ) Flyspeck ( <i>Schizothyrium pom i</i> ) Sooty blotch ( <i>Gloeodes pomigena</i> )
<b>USE RATE</b>	0.5 – 1.0 L/ha
<b>DISEASES CONTROLLED</b>	Cedar apple rust ( <i>Gymnosporangium juniperi-virginianae</i> ) Bitter rot ( <i>Colletotrichum cingulata</i> ) Alternaria blotch ( <i>Alternaria mali</i> )
<b>DISEASES SUPPRESSED</b>	Two-spotted spider mite ( <i>Tetranychus urticae</i> ) European red mite ( <i>Panonychus ulmi</i> ) Apple rust mite ( <i>Aculus schlechtendali</i> )
<b>USE RATE</b>	0.75 – 1.0 L/ha
<b>DISEASES SUPPRESSED</b>	Black rot ( <i>Botryosphaeria obtusa</i> ) Brooks spot ( <i>Mycosphaerella pomi</i> ) Quince rust ( <i>Gymnosporangium clavipes</i> )
<b>USE RATE</b>	1.0 L/ha
<b>APPLICATION METHOD</b>	Foliar application
<b>APPLICATION TIMING</b>	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. 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. For control of bitter rot and Alternaria blotch begin applications before disease occurs, continue on a 7- to 10-day schedule and shorten application intervals when disease pressure is high. For suppression of black rot and Brooks spot, begin applications before disease occurs, continue on a 7-day schedule. When Allegro 500F is used as a cover spray, initiate the applications at petal fall and continue applications on a 7-day schedule to within 28 days of harvest. For diseases and mites that are only suppressed, use the high rate of 1.0 L/ha and make applications on a 7-day interval.
<b>SPRAY VOLUME</b>	minimum of 1000 litres per hectare
<b>APPLICATION INTERVAL</b>	7 – 14 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	5 No more than 3 sequential applications of Allegro 500F before alternating to another fungicide belonging to a different chemical family.
<b>PRE-HARVEST INTERVAL (PHI)</b>	28 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.



**11.8 Crop Group 9 – Cucurbit Vegetables**

<b>CROPS</b>	Field-grown Cucurbit Vegetables (Crop Group 9) (Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd, Momordica spp., Muskmelon, Pumpkin, Squash, summer, Squash, winter, Watermelon)
<b>DISEASE CONTROLLED</b>	Downy mildew ( <i>Pseudoperonospora cubensis</i> ), Gummy stem blight ( <i>Didymella bryoniae</i> )
<b>USE RATE</b>	1.75 L/ha
<b>DISEASE SUPPRESSED</b>	Downy mildew ( <i>Pseudoperonospora cubensis</i> ), Gummy stem blight ( <i>Didymella bryoniae</i> )
<b>USE RATE</b>	0.875 L/ha
<b>DISEASE CONTROLLED</b>	Alternaria leaf spot ( <i>Alternaria</i> spp.)
<b>USE RATE</b>	0.875-1.75 L/ha Use the higher application rate under conditions that are conducive to high disease pressure.
<b>SPRAY VOLUME</b>	280 – 470 L/ha water
<b>APPLICATION METHOD</b>	Foliar broadcast spray, ground application only
<b>APPLICATION TIMING</b>	Allegro 500F should be applied as a broadcast spray on a preventative basis when runners/vines start to form or earlier at first signs of the disease.
<b>APPLICATION INTERVAL</b>	7 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	3 No more than 2 sequential applications of Allegro 500F before alternating to another fungicide belonging to a different chemical family.
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

**11.9 Field Pepper**

<b>CROP</b>	Field Pepper
<b>DISEASE SUPPRESSED</b>	Phytophthora Blight ( <i>Phytophthora capsici</i> )
<b>USE RATE</b>	1.75 L/ha
<b>SPRAY VOLUME</b>	280 – 560 L/ha water
<b>APPLICATION METHOD</b>	Soil drench and/or foliar, broadcast, ground application only
<b>APPLICATION TIMING</b>	Applications should begin at transplant. The initial application may be by soil drench or foliar application. All subsequent applications should be foliar, spraying the foliage, stem and plant base.
<b>APPLICATION INTERVAL</b>	7 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	3 No more than 3 sequential applications of Allegro 500F before alternating to another fungicide belonging to a different chemical family.
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

**11.10 Crop Subgroup 3-07A – Bulb Onion**

<b>CROP</b>	Bulb onion (Crop Subgroup 3-07A)
<b>DISEASES SUPPRESSED</b>	Purple blotch ( <i>Alternaria porri</i> ) Botrytis leaf blight ( <i>Botrytis squamosa</i> ) Stemphylium leaf blight ( <i>Stemphylium vesicarium</i> )
<b>USE RATE</b>	1.16 L/ha
<b>SPRAY VOLUME</b>	Use a sufficient water volume to ensure thorough coverage of the crop but no less than 100 L per hectare are recommended.
<b>APPLICATION METHOD</b>	Foliar, broadcast.
<b>APPLICATION TIMING</b>	Initiate applications when conditions are favourable for disease development or when first disease symptoms appear.
<b>APPLICATION INTERVAL</b>	7 – 10 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER YEAR</b>	5 No more than 3 sequential applications of Allegro 500F before alternating to another fungicide belonging to a different chemical family.
<b>RESTRICTED-ENTRY INTERVAL (REI)</b>	DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days for hand weeding.
<b>PRE-HARVEST INTERVAL (PHI)</b>	7 days
<b>NOTES</b>	<b>DO NOT</b> apply by air.

**11.11 Lowbush Blueberry**

<b>CROP</b>	Lowbush Blueberry
<b>DISEASE SUPPRESSED</b>	Valdensinia leaf spot ( <i>Valdensinia heterodoxa</i> )
<b>USE RATE</b>	0.4 – 0.8 L/ha
<b>SPRAY VOLUME</b>	300 – 1000 L/ha water
<b>APPLICATION METHOD</b>	Foliar spray
<b>APPLICATION TIMING</b>	Begin applications at early bloom or at first symptoms in fruiting fields and at an equivalent time in sprout fields. Use the shorter interval and higher rate of application when disease pressure is high. Good spray coverage into the canopy is essential for good disease management.
<b>APPLICATION INTERVAL</b>	7 – 14 days
<b>MAXIMUM NUMBER OF APPLICATIONS PER SEASON</b>	4
<b>PRE-HARVEST INTERVAL (PHI)</b>	30 days
<b>NOTES</b>	<b>For use in Eastern Canada only</b> <b>DO NOT</b> apply by air.

## 12.0 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. 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:**

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:

If more than one application per year is permitted, follow Use Directions regarding the maximum number of sequential applications. Switch to a fungicide with a different mode of action after making the maximum number of consecutive sprays of Allegro 500F Agricultural Fungicide or other Group 29 fungicides.

Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.

Fungicide use should be based on an integrated disease management 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 applications.

Monitor treated fungal populations for resistance development. Notify ISK Biosciences Corporation if reduced sensitivity of the pathogen to Allegro 500F 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 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 company representatives at 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).