

GROUP 11 FUNGICIDE

AZteroid™ FC 390

FUNGICIDE

SUSPENSION CONCENTRATE

COMMERCIAL

AZteroid FC 390 is a broad-spectrum fungicide for control or suppression of listed soil borne diseases in potato crops. AZteroid FC 390 is to be applied at planting and is compatible with liquid fertilizers.

ACTIVE INGREDIENT:

Azoxystrobin 390 g/L

Contains 1,2-benzisothiazolin-3-one at 0.041% as a preservative.

CAUTION – EYE IRRITANT

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

REGISTRATION NO: 34742 PEST CONTROL PRODUCTS ACT

Net Contents: 1 L – 1000 L



Vive Crop Protection Inc.
6275 Northam Dr., Suite 1
Mississauga, ON L4V 1Y8
1-888-760-0187

LABEL

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.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre IMMEDIATELY. Take container, label or product name and Pest Control 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.

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

No specific symptoms of poisoning are known for this product. If ingested, nausea, vomiting, diarrhea and abdominal pain may occur. Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

May irritate eyes. Avoid contact with eyes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wash contaminated clothing, separately from household laundry, before re-use. Do not wear contaminated shoes.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

All users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

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

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 strip between the treated area and the edge of the water body.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

STORAGE

Store in original containers only. Keep container closed when not in use. Store in a cool, dry place, and do not expose to heat. Store this product away from food or feed.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gage plastic bag.

For spills and leaks – contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces – sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil – remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including the scrub brush in accordance with provincial/territorial requirements.

CONTAINER DISPOSAL

For returnable containers

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

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/territorial requirements.

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

In the event of a medical or chemical emergency contact Chemtel Inc. in North America at 1-800-255-3924 or worldwide international at +1-813-248-0585.

AZteroid™ FC 390

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PAMPHLET

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All users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

DO NOT ENTER OR ALLOW WORKER ENTRY INTO TREATED AREAS DURING THE RESTRICTED-ENTRY INTERVAL (REI) OF 12 HOURS.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

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

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In the event of a medical or chemical emergency, contact Chemtel Inc. in North America at 1-800-255-3924 or worldwide international at +1-813-248-0585.

PRODUCT INFORMATION

AZteroid FC 390 is a broad-spectrum fungicide containing the active ingredient azoxystrobin in an optimized suspension concentrate (SC) formulation that is compatible with liquid fertilizers. AZteroid FC 390 controls silver scurf, and suppresses black scurf, stem and stolon canker on potatoes when applied as an in-furrow treatment at seeding. Refer to the specific use directions for detailed instructions on rates, application timing and technique.

Azoxystrobin, the active ingredient in AZteroid FC 390, belongs to the strobilurin class of fungicides. The mode of action is inhibition of respiration which provides activity against all stages in pathogen life cycles. Strobilurins are classified as GROUP 11 FUNGICIDES (Quinone Outside Inhibitors or QoI).

Do not apply through irrigation equipment unless specified in the specific crop use instructions.

ROTATIONAL CROP RESTRICTIONS

Please see the following table for the crop rotational restrictions:

Rotational Crops	Planting Time From Last Application of Azoxystrobin-containing Products
All crops with azoxystrobin registered uses	0 days
All other crops intended for food and feed	30 Days

DIRECTIONS FOR USE

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 waste.

GROUND APPLICATION

MIXING INSTRUCTIONS

Shake well before use.

AZteroid FC 390 Fungicide is designed for in-furrow applications and must be diluted before application.

AZteroid FC 390 Application in Liquid Fertilizer

AZteroid FC 390 is formulated to be compatible with commonly used liquid starter or pop-up fertilizers as part of the spray carrier. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. Conduct a preliminary

jar test using the appropriate ratio of fertilizer and AZteroid FC 390 (see instructions below). If mixture compatibility is not acceptable, repeat the jar test with an equivalent volume of water added to the liquid fertilizer prior to adding AZteroid FC 390 . Do not exceed dilution specified by mixing instructions. For best results, use immediately after mixing. Do not allow a tank mixture to sit overnight. Do not store mixtures.

Make sure that application equipment is thoroughly cleaned and properly calibrated prior to application and thoroughly cleaned after application.

- Use spray nozzles appropriate for the crop to provide full coverage and uniform distribution of the spray mixture.
- Screens should be used where appropriate to protect sprayer equipment and prevent clogging.
- Screens used to protect pump on the suction side should be no finer than 16-mesh.
- The recirculation line of the spray system should not be fitted with a screen.
- Screens used on the spray nozzles should be no finer than 50-mesh.
- The spray system pump should have sufficient capacity to deliver 240 – 275 kPa (35-40 psi) of pressure to the nozzles, and recirculate at least 10% of the tank volume per minute to maintain a uniform mixture.
- Agitate the spray mixture with a jet agitator or liquid sparge tube.
- Do not use air sparge.

Consult manufacturers of spray equipment for more information on sprayer use, calibration, and recommendations.

AZteroid FC 390 Application Alone

- Determine the required volume of water for application and fill the spray/mixing tank with $\frac{1}{2}$ - $\frac{2}{3}$ of this volume.
- Begin agitation of the tank and add the required volume of AZteroid FC 390.
- Continue agitation while adding the remaining $\frac{1}{2}$ - $\frac{1}{3}$ volume of water to complete the spray mixture.
- Apply the mixture after the contents of the tank are completely dispersed.
- Agitation of the spray tank should be maintained until all of the spray mixture has been applied.

Do not prepare more spray mixture than is required for the treatment. For best results do not allow a mixture to set overnight. If this occurs, agitate the mixture and assess prior to application. Do not store spray mixtures.

AZteroid FC 390 Tank Mix Applications

Observe all restrictions and precautions which appear on the labels of tank mix partners.

This product may be tank mixed with a fertilizer 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 Vive Crop Protection Inc. at 1-888-760-0187 for information before applying any tank mix that is not specifically recommended on this label.

Jar Test Method

Perform a jar test procedure to evaluate compatibility: Following any product specific instructions for order of addition, pour the specified proportions of the products into a suitable container, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. If the combination does not remain mixed, or cannot be re-mixed readily, the products are not physically compatible and must not be tank-mixed together.

SPRAYER CLEANUP

Before Spraying:

- Prior to using AZteroid FC 390, ensure that the spray tank, lines, and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. Do not allow AZteroid FC 390 residue to dry within the spray tank.
- When using tank mixes, consult the tank-mix partner label for additional cleanup instructions.
- The following recommendations are provided:
 - 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 the sprayer near desirable vegetation, wells, or other water sources.
 - Remove all nozzles and screens and wash separately.
 - Dispose of all rinsate in accordance with provincial/territorial regulations.

USE PRECAUTIONS

Read and understand the entire label before opening this product. If you have questions, call Vive Crop Protection at 1-888-760-0187 or obtain technical advice from the distributor or from your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

AZteroid FC 390 should be used as one component in an integrated disease management program including cultural practices that reduce disease including selection of varieties with disease tolerance, plant residue management, crop rotation, and proper timing and placement of fertilizer and irrigation. See the Resistance-Management Recommendations section for more information.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, AZteroid FC 390 contains a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to AZteroid FC 390 and other Group 11 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.

Plant pathogen strains resistant to Group 11 fungicides may eventually dominate the pathogen population if Group 11 fungicides are used repeatedly in the same field or in successive years as the primary method of control for targeted diseases. This may result in the reduction in disease control by Group 11 fungicides.

To delay fungicide resistance:

- Where possible, rotate the use of AZteroid FC 390 or other GROUP 11 fungicides with different groups that control the same pathogens.
- 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.

- Monitor treated fungal populations for resistance development. Notify Vive Crop Protection if reduced sensitivity of the pathogen to AZteroid FC 390 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 advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Vive Crop Protection Inc. at 1-888-760-0187.

SPECIFIC USE DIRECTIONS FOR CROP PLANTS

POTATOES (AT-PLANT IN-FURROW)

Diseases Controlled		USE RATES (linear row) mL product/100 m row (g a.i./100 m row)							
Silver Scurf (<i>Helminthosporium solani</i>) Suppression of Black Scurf (<i>Rhizoctonia solani</i>) Stem and Stolon Canker (<i>Rhizoctonia</i> spp.)		2.56 – 3.85 (1.0 - 1.5)							
Instructions:									
<ul style="list-style-type: none"> Dilute with 50 L to 140 L per hectare of water and/or liquid fertilizer. Always test tank mix compatibility before use. See Mixing Instructions section for more information. Following best local practice, apply in-furrow at-planting as a 15-20 cm band spray directed towards the soil before the seed is covered. Use of higher rates under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development. 									
Specific Use Restrictions:									
<ul style="list-style-type: none"> DO NOT APPLY BY AIR OR CHEMIGATION. Do not make more than one application of AZteroid FC 390 as an in-furrow application per season. 									
Rate in mL of product per 100 m row	Rate in mL of product per ha based on row spacing								
	Row spacing (cm)								
	75	80	85	90	95	100	105	110	115
2.56	341	320	301	284	269	256	244	233	223
3.85	513	481	453	428	405	385	367	350	335
Row Spacing Conversion = 10,000 ÷ row spacing (cm) x mL product per 100 m row = mL product per hectare									

Vive Crop Protection, and AZteroid are trademarks of Vive Crop Protection.