

PMRA Approved Label
2021-0905
2022-12-02

GROUP	7	3	11	FUNGICIDE
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A23089 Fungicide

FUNGICIDE

SUSPENSION

COMMERCIAL (AGRICULTURAL)

For broad-spectrum disease control or suppression on listed crops.

ACTIVE INGREDIENTS:

Pydiflumetofen 75 g/L
Azoxystrobin 125 g/L
Difenoconazole 125 g/L

Contains 1,2-benzisothiazolin-3-one at 0.0405%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00056% and 2-methyl-4-isothiazolin-3-one at 0.000185% OR 1,2-benzisothiazolin-3-one at 0.0405%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.00089%, 2-methyl-4-isothiazolin-3-one at 0.0003% and 2-bromo-2-nitropropane-1,3-diol at 0.00435% as preservatives.

Warning, contains the allergen sulfites

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



WARNING – POISON

REGISTRATION NO: **34616**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **0.5 L – 1000 L**

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.

2.0 FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. 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.

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 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

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food and feed.

May be fatal if swallowed or absorbed through the skin. Avoid contact with skin and clothing.

For all postapplication activities, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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.

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.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

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, using the toilet or using a handheld device.

6.0 ENVIRONMENTAL PRECAUTIONS

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

The active ingredient difenoconazole is toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.

Pydiflumetofen, difenoconazole, and azoxystrobin are persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing any of pydiflumetofen, difenoconazole, or azoxystrobin during the previous season.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of A23089 Fungicide in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

7.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from feed and foodstuffs, and out of the reach of children and animals. Store this product away from food or feed. If product freezes, allow to thaw and circulate prior to use.

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 cleanup of spills.

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

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

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Pamphlet

Table of Contents

	<u>Section Number</u>
NOTICE TO USER	1.0
FIRST AID	2.0
TOXICOLOGICAL INFORMATION	3.0
PRECAUTIONS.....	4.0
PERSONAL PROTECTIVE EQUIPMENT (PPE).....	5.0
ENVIRONMENTAL PRECAUTIONS	6.0
STORAGE	7.0
DISPOSAL	8.0
PRODUCT INFORMATION	9
General Use Precautions	9.1
DIRECTIONS FOR USE	10
Ground Application	10.1
Mixing Instructions	10.1.1
Spraying Instructions	10.1.2
Equipment Clean-Up.....	10.1.3
Aerial Application	10.2
Mixing Instructions	10.2.1
Pilot Precautions.....	10.2.2
Product Specific Precautions	10.2.3
Spraying Instructions	10.2.4
Equipment Clean-Up.....	10.2.5
Spray Buffer Zones	10.3
Rotational Crop Restrictions	10.4
CROP USE DIRECTIONS	11.0
Directions for Use in Dried Shelled Pea and Beans (Crop Subgroup 6C)	11.1
Directions for Use in Soybean.....	11.2
RESISTANCE MANAGEMENT RECOMMENDATIONS	12.0

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CALL 1-800-327-8633 (FASTMED)***

9.0 PRODUCT INFORMATION

A23089 Fungicide is a broad spectrum, preventative fungicide recommended for the control or suppression of many important plant diseases, formulated as a suspension concentrate (SC). Read all label directions before use. All applications must be made according to the use directions that follow.

9.1 General Use Precautions

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Unless indicated otherwise in the use directions for specific crops, make no more than two sequential application of A23089 Fungicide before alternating with a non-Group 7, 11 and 3 fungicide registered for the same disease, if available.

Not all members of the crop groups have been tested for phytotoxicity. It is recommended to test A23089 Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur.

10.0 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 wastes.

10.1 Ground Application

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

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Syngenta Canada Inc. at 1-877-964-3682 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Syngenta Canada Inc.

10.1.1 Mixing Instructions

1. Ensure that the sprayer interior is clean, then fill the spray tank with $\frac{1}{2}$ the required amount of water and engage gentle agitation. Good agitation is indicated by a rippling or rolling action on the surface of the water.
2. Add A23089 Fungicide and agitate to ensure complete mixing.
3. Finish filling the sprayer with water, maintaining good agitation.
4. After any break in spraying operations, agitate thoroughly before spraying again.
5. Spray the pesticide suspension the same day as mixing.
6. Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

When using chemical handling equipment to fill the sprayer, the following additional recommendations apply: this product **MAY BE** inducted or batch mixed.

10.1.2 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. Sprayer Agitation: Use a jet agitator or liquid sparge tube which recirculates 7-10% of the tank per minute. **DO NOT** use an air sparger.
3. Pump: Screens should be used to protect the pump and prevent clogging. Use 16 mesh or *coarser* screens on the suction side of the pump. **DO NOT** place a screen in the recirculation line. Use 50 mesh or *coarser* screens between the pump and boom unless directed otherwise by the sprayer manufacturer.
4. Spray Nozzles: 80° or 110° drift reducing flat fan (e.g. those with a pre-orifice or turbulence chamber) or air induction nozzles are recommended. Use 50 mesh nozzle screens or as recommended by the nozzle manufacturer. **DO NOT** use flood type nozzles, controlled droplet application equipment, spray foils or hollow cone nozzles.
5. Pressure: As recommended by the nozzle manufacturer to achieve no smaller than ASABE fine sized droplets.
6. 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.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly 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.

10.1.3 Equipment Clean-Up

Before Spraying:

- Prior to using A23089 Fungicide, ensure that the spray tank, lines and filter are thoroughly clean.

After Spraying:

- Thoroughly clean application equipment immediately after spraying. **DO NOT** allow A23089 Fungicide residue to dry within the spray tank
- 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 the sprayer 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.

10.2 Aerial Application

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

10.2.1 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: SC formulations may be inducted or batch mixed.

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. Induct or thoroughly batch mix A23089 Fungicide.
3. Pump batch mixed into the hopper.
4. Finish filling the hopper with water.
5. If it was not possible to engage hopper agitation in Step 1, do so as soon as possible once airborne.
6. Spray the pesticide suspension the same day as mixing.
7. Do not mix, load or clean equipment where there is a potential to contaminate wells or aquatic systems.

NOTE: A23089 Fungicide **MAY BE** inducted or batch mixed.

10.2.2 Pilot Precautions

Read and understand the entire label before using this product. 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. Ensure uniform application and a uniform spray with minimum potential for drift. To avoid streaked, uneven or overlapped application, use appropriate marking technology. GPS based marking is preferred.

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

10.2.3 Product Specific Precautions

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.

A23089 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**).

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-964-3682 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 50 litres per hectare.

10.2.4 Spraying Instructions

1. Water Volume: Apply in a minimum spray volume of 50 L/ha OR the volume given in the crop and pest specific instructions tabulated below, whichever is LARGER.
2. Spray Nozzles: Use only ASABE 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 ASABE medium or coarse sized droplets.
4. Ensure hopper agitation is engaged whenever possible during flight.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in overly 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.

10.2.5 Equipment Clean-Up

Before Spraying:

- Prior to using A23089 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 A23089 Fungicide residue to dry within application equipment.
- 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.

10.3 Spray Buffer zones

A spray buffer zone is NOT required for:

- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage.

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) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:		
			Freshwater Habitat of Depths:		Terrestrial Habitat:
			Less than 1 m	Greater than 1 m	
Field sprayer	Dried shelled peas and beans (CSG 6C) soybeans		4	1	1
Aerial	Dried shelled peas and beans (CSG 6C) soybeans	Fixed wing	15	1	15
		Rotary wing	10	1	15

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.

10.4 Rotational Crop Restrictions

Rotational Crops	Planting Time From Last Application
Dried shelled pea and bean, except soybean (CSG6C) Dry soybeans Cereals (barley, oats, wheat, rye and triticale) Rapeseed subgroup (CSG 20A) Carrot Potato Sugar beet Brassica Leafy Greens (CSG 4-13B) Brassica Head and Stem Vegetable Group (CG 5-13) Bulb Vegetables (CG 3-07) Cucurbit Vegetables (CG 9) Fruiting Vegetables (CG 8-09)	0 days
All other crops Intended for Food and Feed	60 days

11.0 CROP USE DIRECTIONS

Apply the higher rate and/or use the shorter interval under conditions of high disease pressure.

Diseases are controlled unless otherwise stated as suppressed.

11.1 Directions for Use in Dried Shelled Pea and Beans

Crops	Dried shelled peas and beans (except soybean) Crops (including all cultivars, varieties and/or hybrids of these) (does not include soybeans)
	Dried cultivars of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and sweet white lupin) Bean (<i>Vigna</i> spp.) (includes adzuki beans, black-eyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean)
	Broad bean (faba bean) (dry) Chickpea (garbanzo bean) Dried cultivar of pea (<i>Pisum</i> spp.) Lentil Pea (<i>Pisum</i> spp.) (includes field pea)
Disease suppressed	White mold (<i>Sclerotinia sclerotiorum</i>)
Use Rate	1.0 L/ha
Diseases controlled	Anthracnose (<i>Colletotrichum</i> spp.) Ascochyta blight (<i>Ascochyta</i> spp.)
Use Rate	1.0 L/ha
Crops	Peas (<i>Pisum</i> spp.)
Disease controlled	Powdery mildew (<i>Erysiphe pisi</i>)
Use Rate	1.0 L/ha
Crops	Bean (<i>Lupinus</i> spp.), bean (<i>Vigna</i> spp.), broad bean or faba bean (<i>Vicia</i> spp.) and peas (<i>Pisum</i> spp.)
Disease controlled	Mycosphaerella blight (<i>Mycosphaerella pinodes</i>)
Use Rate	1.0 L/ha
Crops	Bean (<i>Lupinus</i> spp.), bean (<i>Vigna</i> spp.), broad bean or faba bean (<i>Vicia</i> spp.), peas (<i>Pisum</i> spp.)
Disease controlled	Asian soybean rust (<i>Phakopsora pachyrhizi</i>)
Use Rate	1.0 L/ha

Application timing/instructions	<p>For powdery mildew, make first application at the R1 to R3 developmental stage, or when there is 5% disease level in the field. A second application can be made 14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement.</p> <p>For all other diseases, apply at the beginning of flowering or prior to disease establishment. With the exception of Asian soybean rust, which has a re-application interval of 14 days, a second application can be made 10-14 days after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement. Use the shorter application interval under conditions of heavy infection pressure, on highly susceptible varieties, or when environmental conditions are favourable for disease development.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p>
Maximum number of consecutive sprays	<p>2 applications, then switch to a non-Group 7, 11 and 3 fungicide, if available.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p> <p>DO NOT make more than one application to dry pea hay and vines.</p>
Maximum amount of product per season	2.0 L/ha
Pre-harvest Interval (PHI)	<p>Do not apply within 30 days of harvest for beans.</p> <p>Dry pea hay and vines may be fed or harvested 14 days after one application.</p>
<p>Specific Use Restrictions:</p> <ol style="list-style-type: none"> 1. Do not apply beyond full bloom stage, 50% of flowers open (BBCH 65). 2. Not all members of the legume vegetable group have been tested for phytotoxicity. It is recommended to test A23089 Fungicide on a small portion of the crop to ensure that a phytotoxic response will not occur. This is especially true for dry beans. 3. A23089 Fungicide is most effective when applied and allowed to dry before a rainfall. 	

11.2 Directions for Use in Soybean

Crops	Soybean
Disease controlled at	Powdery mildew (<i>Microsphaeria diffusa</i>) Frogeye leaf spot (<i>Cercospora sojina</i>) Anthraco nose (<i>Colletotrichum truncatum</i>) Asian soybean rust (<i>Phakopsora pachyrhizi</i>) Cercospora leaf spot (<i>Cercospora kikuchii</i>)
Use Rate	1.0 L/ha
Disease suppressed	White mold (<i>Sclerotinia sclerotiorum</i>)
Use Rate	1.0 L/ha
Application timing/instructions	<p>Make the first application at the first sign of disease.</p> <p>For anthracnose, the first application must be applied before disease is established and no later than the onset of flowering.</p> <p>For cercospora diseases, Asian soybean rust and powdery mildew, make first application at the R1 to R3 developmental stage, or when there is 5% disease level in the field.</p> <p>For white mold, the first application must be applied before disease is established and no later than the onset of flowering.</p> <p>A second application can be made after the first application, when disease pressure is high or when agronomic or weather conditions are conducive to disease development or movement. Re-application interval of 14 days for powdery mildew, cercospora leaf spot and Asian soybean rust. Re-application interval of 10-14 days for anthracnose and white mould. Re-application interval of 7-14 days for frogeye leaf spot.</p> <p>Apply in sufficient water volume to obtain thorough coverage; a minimum spray volume of 100 L/ha and 50 L/ha is recommended for ground and aerial application, respectively.</p>
Maximum number of consecutive sprays	<p>2 applications, then switch to a non-Group 7, 11 and 3 fungicide, if available.</p> <p>Follow all precautions, restrictions and directions on the labels of fungicide products used in an alternation program.</p>
Maximum amount of product per season	2.0 L/ha
Pre-harvest Interval (PHI)	<p>Do not apply within 30 days of harvest for beans.</p> <p>DO NOT feed soybean forage, hay and silage to livestock.</p>

12.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, A23089 Fungicide contains Group 7, 11 and Group 3 fungicides in the succinyl dehydrogenase inhibitor (SDHI) class, inhibitor of the Qo (quinone outside) site within the electron transport system (Qol) class, as well as the DMI (Demethylation Inhibitor of sterol biosynthesis) class. Any fungal population may contain individuals naturally resistant to pydiflumetofen and other Group 7, 11 and 3 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 A23089 Fungicide or other Group 7, 11 or 3 fungicides with different groups that control the same pathogens.

Apply no more than 2 sequential applications unless otherwise stated in the crop section.

DO NOT apply at rates lower than specified on the label.

Use tank mixtures with fungicides 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 sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to A23089 Fungicide is suspected.

If disease continues to progress after treatment with this product, DO NOT increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, to which pathogen resistance has not developed.

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 or to report suspected resistance, Contact Company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

Application Limitations and Pre-harvest Intervals

Crop*	Maximum Product Rate/ha/application (L/ha)	Minimum Re-treatment Interval (days)	Maximum total (L/ha/Season)	Pre-Harvest Interval (PHI) (days)
Dried Shelled Pea and Beans	1.0	10-14	2.0	30

Dry pea hay and vines	1.0	NA	1.0	14
Soybeans	1.0	7	2.0	30

*For specific crops in a group and use directions, refer to the Specific Directions For Use