

2022-0975  
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GROUP	7	FUNGICIDE
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### **XEMIUM® EC FUNGICIDE**

For use in Crop Group 1C (Tuberous and Corm Vegetables), Sugar Beets, Crop Group 6 (Legume Vegetables), Crop Group 8 (Fruiting Vegetables), Crop Group 11 (Pome Fruits), Crop Group 12 (Stone Fruits), Crop Group 15 (Cereal Grains), Crop Group 20 (Oilseeds) and Peanuts

#### **COMMERCIAL (AGRICULTURAL)**

**GUARANTEE:** Fluxapyroxad 62.5 g/L

**REGISTRATION NO. 30562**

**PEST CONTROL PRODUCTS ACT**

**EMULSIFIABLE CONCENTRATE**

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY  
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT  
1-800-454-2673**

**DANGER - EYE IRRITANT**

**READ THE LABEL BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

**NET CONTENTS:** 0.1 L – Bulk

BASF Canada Inc.  
5025 Creebank Road  
Building A, 2<sup>nd</sup> Floor  
Mississauga, Ontario L4W 0B6

1-877-371-2273

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## GENERAL INFORMATION

This package contains **Xemium EC Fungicide**, a broad-spectrum fungicide. The active ingredient in **Xemium EC Fungicide** belongs to the carboxamide (SDHI) group of fungicides.

**Xemium EC Fungicide** inhibits spores germination, mycelial growth and sporulation of the fungus on the leaf surface. **Xemium EC Fungicide** can be applied in either pre- or post-infection situations. However, optimum disease control is achieved when **Xemium EC Fungicide** is applied preventatively in a regularly scheduled spray program and is used in a rotation program with other fungicides.

## DIRECTIONS FOR USE (See specific sections for each crop group)

Apply recommended rates of **Xemium EC Fungicide** as instructed in the following series of crop application rate tables. Apply **Xemium EC Fungicide** with spray equipment as specified. Equipment should be checked frequently for proper calibration.

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.

**Crop Group 1C (Tuberous and Corm Vegetables) Application Rate Table  
(Ground and Aerial Application)**

Crop	Disease Controlled	Application Rate (L/ha)
<u>Tuberous and corm vegetables</u> Chinese artichoke, Jerusalem artichoke, chufa, potato, sweet potato, true yam	Early blight ( <i>Alternaria solani</i> )	0.8 – 1.6
Potato	Rhizoctonia canker ( <i>Rhizoctonia solani</i> ) – In-furrow	1.6
	White mold ( <i>Sclerotinia sclerotiorum</i> )	1.6

For control of alternaria early blight, begin applications of **Xemium EC Fungicide** prior to disease development at 0.8 to 1.6 L/ha. Apply **Xemium EC Fungicide** at 1.6 L/ha at the beginning of flowering to control white mold (*Sclerotinia sclerotiorum*). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.

**Instructions for In-furrow Use to Aid in the Control of Soilborne Rhizoctonia in Potatoes**

Use 1.6 L/ha of **Xemium EC Fungicide** in-furrow to control soilborne *Rhizoctonia solani* in potato. Refer to the chart below to determine the rate per 1000 m of row, based on various row spacings. Apply at planting as an in furrow spray by directing spray pattern to uniformly cover seed pieces and surrounding soil. The spray pattern should be a 10-20 cm (4 to 8 inches) band that is applied to the seed piece prior to being covered with soil.

Use a minimum volume of application of 50 L of water per hectare.

Product Rate (L/ha product)	Product Rate (L per 1000 metres of row)				
	81 cm (32") rows	86 cm (34") rows	91 cm (36") rows	96.5 cm (38") rows	101 cm (40") rows
1.6	0.13	0.14	0.15	0.154	0.16

**Sugar Beets Application Rate Table (Ground / In-Furrow and Aerial Application)**

<b>Crop</b>	<b>Disease Controlled</b>	<b>Application Rate (L/ha)</b>
Sugar beets	Powdery mildew ( <i>Erysiphe betae</i> )	1.6
	Rhizoctonia seedling disease ( <i>Rhizoctonia solani</i> )	1.6

For optimal disease control, begin applications of **Xemium EC Fungicide** prior to disease development. For control of cercospora leaf spot and powdery mildew, apply **Xemium EC Fungicide** at 1.6 L/ha. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.

**Instructions for In-furrow Use to Aid in the Control of Soilborne Rhizoctonia in Sugar Beets**

Use 1.6 L/ha of **Xemium EC** in furrow to control soilborne *Rhizoctonia solani* in sugar beets. Refer to the chart below to determine the rate per 1000 m of row, based on various row spacings. Apply at planting as an in furrow spray by directing spray pattern to uniformly cover seed pieces and surrounding soil. The spray pattern should be a 10-20 cm (4 to 8 inches) band that is applied to the seed piece prior to being covered with soil.

Use a minimum volume of application of 50 L of water per hectare.

<b>Product Rate (L/ha)</b> (L/ha product)	<b>Product Rate (L per 1000 metres of row)</b>				
	81 cm (32") rows	86 cm (34") rows	91 cm (36") rows	96.5 cm (38") rows	101 cm (40") rows
1.6	0.13	0.14	0.15	0.154	0.16

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**Crop Group 6 (Dried and Succulent Peas and Beans, including Soybeans)  
 Application Rate Table**

**Crop Subgroup 6A (Edible Podded Legumes) Application Rate Table  
 (Ground and Aerial Application)**

Crop	Disease Suppressed	Application Rate L/ha
<p><u>Crop subgroup 6A - Edible-podded legume vegetables</u>            Bean (<i>Phaseolus spp.</i>) (includes runner bean, snap bean, wax bean); bean (<i>Vigna spp.</i>) (includes asparagus bean, Chinese long bean, moth bean, yardlong bean); jack bean; pea (<i>Pisum spp.</i>) (includes dwarf pea, pea (<i>Pisum spp.</i>), edible pod pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean</p>	<p>Ascochyta blight (<i>Ascochyta spp.</i>)            White mold/Sclerotinia (<i>Sclerotinia sclerotiorum</i>)</p>	<p>1.2 – 1.6</p>
<p>Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering or at the onset of symptoms to suppress ascochyta blight (<i>Ascochyta spp.</i>). Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering to suppress white mold (<i>Sclerotinia sclerotiorum</i>). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p>		

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**Crop Subgroup 6B (Succulent Shelled Peas and Beans) Application Rate Table  
 (Ground and Aerial Application)**

Crop	Disease Suppressed	Application Rate (L/ha)
<p><u>Crop subgroup 6B - Succulent shelled peas and beans</u>            Bean (<i>Phaseolus spp.</i>) (includes lima [green]); broad bean (succulent); bean (<i>Vigna spp.</i>) (includes blackeyed pea, cowpea, southern pea); pea (<i>Pisum spp.</i>) (includes English pea, garden pea, green pea); pigeon pea</p>	<p>Ascochyta blight (<i>Ascochyta spp.</i>)            White mold (<i>Sclerotinia sclerotiorum</i>)</p>	<p>1.2 – 1.6</p>
<p>Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering or at the onset of symptoms to suppress ascochyta blight (<i>Ascochyta spp.</i>). Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering to suppress white mold (<i>Sclerotinia sclerotiorum</i>). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p>		

**Crop Subgroup 6C (Dried Shelled Peas and Beans, except Soybeans)  
Application Rate Table (Ground and Aerial Application)**

<b>Crop</b>	<b>Disease Controlled</b>	<b>Application Rate (L/ha)</b>
Chickpeas	Ascochyta blight ( <i>Ascochyta rabiei</i> )	1.2 – 1.6
<b>Crop</b>	<b>Disease Suppressed</b>	<b>Application Rate (L/ha)</b>
Dry peas ( <i>Pisum</i> spp.)	Mycosphaerella blight ( <i>Mycosphaerella pinodes</i> ) White mold ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6
Lentils	Ascochyta blight ( <i>Ascochyta lentis</i> ) White mold ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6
Chickpeas	White mold/Sclerotinia ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6
Fababean	Ascochyta blight ( <i>Ascochyta</i> spp.) White mold ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6
<p><u>Dry peas:</u> Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering or at the onset of symptoms to suppress mycosphaerella blight (<i>Mycosphaerella pinodes</i>). Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering to suppress white mold (<i>Sclerotinia sclerotiorum</i>). Apply a second time 7-14 days later if disease persists or weather conditions are favourable for disease development.</p> <p><u>Chickpeas, lentils, fababean:</u> Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering or at the onset of symptoms to control or suppress ascochyta blight (<i>Ascochyta</i> spp.). Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at the beginning of flowering to control white mold (<i>Sclerotinia sclerotiorum</i>). Apply a second time 7-14 days later if disease persists or weather conditions are favourable for disease development.</p>		

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**Soybean Application Rate Table (Ground and Aerial Application)**

<b>Crop</b>	<b>Disease Suppressed</b>	<b>Application Rate (L/ha)</b>
Soybeans	Frog eye leaf spot ( <i>Cercospora sojina</i> ) Septoria brown spot ( <i>Septoria glycines</i> ) Asian soybean rust ( <i>Phakopsora pachyrhzi</i> )	0.8
	Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6

For optimal disease control, apply **Xemium EC Fungicide** prior to disease development when conditions are favorable for disease development. Apply **Xemium EC Fungicide** at 0.8 L/ha at the beginning of flowering or at the onset of symptoms to suppress frog eye leaf spot and septoria brown spot. Apply **Xemium EC Fungicide** at 0.8 L/ha at the beginning of flowering or at the onset of symptoms to suppress Asian soybean rust. Apply **Xemium EC Fungicide** at 1.2 to 1.6 L/ha at the beginning of flowering to suppress white mold (*Sclerotinia sclerotiorum*). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.

**Crop Group 8 (Fruiting Vegetables, except Cucurbits) Application Rate Table (Ground Application)**

<b>Crop</b>	<b>Disease Controlled</b>	<b>Application Rate (L/ha)</b>
Eggplant, ground cherry, pepino, field pepper (all varieties), tomatillo, field tomato	Early blight ( <i>Alternaria solani</i> )	0.8 – 1.6
	Black mold ( <i>Alternaria alternata</i> )	1.6

For control of alternaria early blight, begin applications of **Xemium EC Fungicide** prior to disease development at 0.8 to 1.6 L/ha. For control of black mold, apply **Xemium EC Fungicide** at 1.6 L/ha prior to disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.



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**Crop Group 11 (Pome Fruits) Application Rate Table  
 (Ground Application)**

Crop	Disease Controlled	Application Rate (L/ha)
Apple, crabapple, mayhaw, pear, pear oriental, quince	Apple scab ( <i>Venturia inaequalis</i> ) Pear scab ( <i>Venturia pirina</i> ) Powdery mildew ( <i>Podosphaera leucotricha</i> )	0.8 – 1.6
<p>Begin applications of <b>Xemium EC Fungicide</b> prior to disease development when weather conditions are favorable for disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p>		

**Crop Group 12 (Stone Fruits) Application Rate Table  
 (Ground Application)**

Crop	Disease Controlled	Application Rate (L/ha)
<u>Stone fruits group</u> Apricot, cherry (sweet and tart), nectarine, peach, plum (all varieties), plumcot, prune	Blossom blight, brown rot and ripe fruit rot ( <i>Monilinia fruticola</i> , <i>Monilinia laxa</i> )	1.6
<p>Begin applications of <b>Xemium EC Fungicide</b> at pink bud or prior to the onset of disease development when weather conditions are favorable for disease development. Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p>		

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**Crop Group 15 (Cereal Grains) Application Rate Table  
(Ground and Aerial Application)**

<b>Crop</b>	<b>Disease Controlled</b>	<b>Application Rate (L/ha)</b>
Barley	Net blotch ( <i>Pyrenophora teres</i> ) Spot blotch ( <i>Cochliobolus sativus</i> ) Scald ( <i>Rhynchosporium secalis</i> )	0.6 – 0.8
	Stripe rust ( <i>Puccinia striiformis</i> )	0.8
Rye	Leaf rust ( <i>Puccinia recondita</i> )	0.6 – 0.8
	Powdery mildew ( <i>Erysiphe graminis</i> )	0.8
Wheat (all types) Triticale	Septoria leaf blotch ( <i>Septoria tritici</i> or <i>S. nodorum</i> ) Leaf rust ( <i>Puccinia recondita</i> ) Spot blotch ( <i>Cochliobolus sativus</i> )	0.6 – 0.8
	Tan spot ( <i>Pyrenophora tritici-repentis</i> ) Stripe rust ( <i>Puccinia striiformis</i> ) Powdery mildew ( <i>Erysiphe graminis</i> )	0.8
<b>Crop</b>	<b>Disease Suppressed</b>	<b>Application Rate (L/ha)</b>
Corn (field, sweet, pop, seed types)	Gray leaf spot ( <i>Cercospora zeae-maydis</i> ) Eye spot ( <i>Aureobasidium zeae</i> )	0.8

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### **Leaf Diseases in Cereals**

To maximize yield in cereals it is important to protect leaves from disease. The optimum time to apply a single application of **Xemium EC Fungicide** is when conditions are favorable for disease development. Use 0.6 to 0.8 L/ha of **Xemium EC Fungicide** to control net blotch, spot blotch, scald in barley; leaf rust in rye; septoria leaf blotch, leaf rust, and spot blotch in wheat. Use 0.8 L/ha of **Xemium EC Fungicide** to control stripe rust in barley; powdery mildew in rye; and tan spot, stripe rust, and powdery mildew in wheat. Use the higher rate and shorter interval when disease pressure is high. Apply a second time 10 - 14 days later if disease persists or weather conditions are favourable for disease development.

### **Leaf Diseases in Corn**

For optimal disease control, begin applications of **Xemium EC Fungicide** prior to disease development. Use 0.8 L/ha of **Xemium EC Fungicide** to suppress gray leaf spot and eye spot. Use the higher rate and shorter interval when disease pressure is high.

If disease persists or weather conditions are favourable for disease development, apply a second time 10 – 14 days later.

**Crop Group 20 (Oil Seed Crops) Application Rate Table  
(Ground and Aerial Application)**

Crop	Disease Suppressed	Application Rate (L/ha)
Borage; crambe; echium; flax; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; oil radish, gold of pleasure; hare's ear mustard; poppy seed; evening primrose; niger seed; rose hip; sweet rocket; calendula; castor oil plant; safflower; stokes aster; euphorbia	Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> )	1.2 – 1.6
Canola (including rapeseed, canola quality <i>Brassica juncea</i> and oilseed/mustard)	Sclerotinia stem rot ( <i>Sclerotinia sclerotiorum</i> ) Alternaria black spot ( <i>Alternaria brassicae</i> and <i>A. raphani</i> )	1.2 – 1.6
<p>Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at 20-50% flowering to suppress sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p> <p><u>Canola</u>: Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at 20-50% flowering to suppress sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>) and alternaria black spot (<i>Alternaria brassicae</i> and <i>A. raphani</i>). Apply a second time 7-14 days later up to full bloom if disease persists or weather conditions are favourable for disease development. Apply <b>Xemium EC Fungicide</b> at 1.2 to 1.6 L/ha at late flowering to early green pod to suppress alternaria black spot (<i>Alternaria brassicae</i> and <i>A. raphani</i>). Use the high rate under high disease pressure.</p>		

**Peanut Application Rate Table (Ground Application)**

Crop	Disease Suppressed	Application Rate (L/ha)
Peanuts	Late leaf spot ( <i>Cercospora arachidicola</i> )	1.6
<p>Begin applications of <b>Xemium EC Fungicide</b> prior to the onset of disease development when weather conditions are favorable for disease development. Apply a second time 14-21 days later up to full bloom if disease persists or weather conditions are favourable for disease development.</p>		

### Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Product Rate per Ha per Application (Litres)	Maximum Number of Applications per Season	Maximum Number of Sequential Applications	Maximum Product Rate per Ha per Season (Litres)
Cereals Barley Rye Wheat (all types)	21	0.8	2	2	1.6
Corn (field, pop, seed)	21	0.8	2	2	1.6
Corn (sweet)	7	0.8	2	2	1.6
Dried shelled peas and beans (Crop Group 6C)	21	1.6	2	2	3.2
Edible podded legumes (Crop Group 6A)	7	1.6	2	2	3.2
Fruiting vegetables (Crop Group 8)	7	1.6	3	2	4.8
Oilseeds (Crop Group 20)	21	1.6	2	2	3.2
Peanuts	7	1.6	3	2	4.8
Pome fruits (Crop Group 11)	0	1.6	4	2	6.4
Soybeans	21	1.6	2	2	3.2
Stone fruits (Crop Group 12)	0	1.6	3	2	4.8
Succulent shelled peas & beans (Crop Group 6B)	7	1.6	2	2	3.2
Sugar beets	7	1.6	3	2	4.8
Tuberous & corm vegetables (Crop Subgroup 1C)	7	1.6	3	2	4.8

#### Ground application

Apply **Xemium EC Fungicide** at rates listed in the Application Rate and Timing Tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 100 L/ha and ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

#### Airblast application

Apply recommended rates of **Xemium EC Fungicide** as instructed in the following series of crop specific application rate and timing tables. Apply **Xemium EC Fungicide** with ground equipment. Equipment should be checked frequently for proper calibration.

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### **Aerial application**

Apply **Xemium EC Fungicide** at rates listed in application rate and timing tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 50 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

### **Instructions for Aerial Applications**

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.

### **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

### **Field Sprayer Application**

**DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

### **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.

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### 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) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

### Buffer Zones

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

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats.

### Buffer Zone Specifications for Xemium EC Fungicide

Method of application	Crop		Buffer Zones (metres) Required for the Protection of Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Tuberous and corm vegetables, sugar beets, peanuts, fruiting vegetables (except cucurbits), dry beans, edible podded legumes, succulent shelled peas and beans, oil seed crops, canola, dried shelled peas and beans (except soybeans), corn (sweet and all other types), soybean, cereal grains		1	0
Airblast	Stone fruits	Early growth stage	5	0
		Late growth stage	3	0
	Pome fruits	Early growth stage	10	0
		Late growth stage	4	0
Aerial	Edible podded legumes, succulent shelled peas and beans, oil seed crops, canola, dried shelled peas and beans (except soybeans), corn (sweet and all other types), soybean, cereal grains	Fixed wing	1	0
		Rotary wing	1	0
	Tuberous and corm vegetables, sugar beets	Fixed wing	5	0
		Rotary wing	3	0
	Dry beans	Fixed wing	10	0
		Rotary wing	5	0

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For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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.

## ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

Fluxapyroxad is persistent and may carryover. It is recommended that any products containing fluxapyroxad not be used in areas treated with this product 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.

## RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **Xemium EC Fungicide** contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to **Xemium EC Fungicide** and other Group 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same locations. Other resistance mechanisms that are not linked to site of action but are 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 **Xemium EC Fungicide** or other Group 7 fungicides with different groups that control the same pathogens. Avoid application of consecutive sprays of **Xemium EC Fungicide** or other fungicides in the same group in a season. **DO NOT** apply more than two (2) sequential applications of **Xemium EC Fungicide** before alternating to a labeled fungicide with a different mode of action for at least one application. **DO NOT** exceed the total number of applications of **Xemium EC Fungicide** per season as stated in the Crop-Specific Restrictions and Limitations.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and cover crop and considers cultural, biological and other chemical control practices.



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- Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.
- If **Xemium EC Fungicide** appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a BASF-representative, local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance.

For further information, contact BASF Canada Inc. at 1-877-371-2273.

## MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **Xemium EC Fungicide** to the tank.
4. Add the required amount of the tankmix partner.
5. Add the recommended amount of adjuvant.
6. Continue agitation while filling the remainder of the spray tank .
7. After use, clean the spray tank according to PRECAUTIONS.

## RESTRICTIONS AND LIMITATIONS

1. All crops on this label can be grazed or fed to livestock. For livestock feeding and grazing, observe the minimum preharvest intervals specified for each crop under the Crop-Specific Restrictions and Limitations section on this label. Do not harvest cereals for forage or hay within 7 days of the last application.
2. Crop Rotation Restrictions: Tuberous and corm vegetables, sugar beets, legume vegetables, fruiting vegetables, pome fruits, stone fruits, cereals, oilseeds and peanuts may be planted immediately following the last application. A plant-back interval of one year is required for all other crops.
3. **DO NOT** use in greenhouses.

## PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**

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2. **DO NOT** take internally. Harmful if swallowed.
3. Severely irritating to the eye. **DO NOT** get in eyes. Avoid contact with skin and clothing.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. **DO NOT** re-enter treated area for 12 hours after application.
6. Wear long-sleeved shirt, long pants, chemical resistant gloves, socks and footwear during mixing, loading, application, clean-up and repair. Wear goggles or a face shield during mixing/loading.
7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean spray equipment thoroughly after use.
9. **DO NOT** contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
10. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas, is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
11. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## FIRST AID

**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.

**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 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 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.

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

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## **TOXICOLOGICAL INFORMATION**

The patient should be treated symptomatically.

## **STORAGE**

To prevent contamination, store this product away from food or feed.

## **DISPOSAL**

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

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

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

### **For Returnable Containers**

Do not reuse this container for any purpose. For disposal, this 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 Non-Returnable Containers**

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

For information on the 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

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**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.