

04-APR-2011
2010-2945

GROUP	11	FUNGICIDE
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CABRIO® EG FUNGICIDE
Wettable Granule

Broad spectrum fungicide for use on blueberries (highbush, lowbush), bulb vegetables group, cucurbit vegetables (field cucumber, gherkin, citron melon, muskmelon, pumpkin, summer and winter squash, watermelon), fruiting vegetables (eggplant, field pepper, field tomato), root vegetables (carrot, horseradish, oriental radish, radish, garden beet, rutabaga, turnip), stone fruits group and strawberries

COMMERCIAL (AGRICULTURAL)

GUARANTEE: Pyraclostrobin 20%

Warning, contains the allergen sulfites

REGISTRATION NO. 27323 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

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

NET CONTENTS: 2.27 kg

BASF Canada Inc.
100 Milverton Drive
5th Floor
Mississauga, Ontario
L5R 4H1
1-877-371-2273

CABRIO® EG is a registered trademark of BASF.

GENERAL INFORMATION

This package contains **CABRIO EG FUNGICIDE**, a water dispersible granule (EG). The active ingredient in **CABRIO EG FUNGICIDE** belongs to a new class of fungicides, the strobilurins. Strobilurins are synthetic derivatives of a natural antifungal substance. **CABRIO EG FUNGICIDE** has a new mode of action and is effective against pathogens resistant to other fungicides.

CABRIO EG FUNGICIDE has a protective effect because it inhibits spore germination and a curative-eradicated effect due to the inhibition of mycelial growth and sporulation of the fungus on the leaf surface. **CABRIO EG FUNGICIDE** can therefore be applied in either pre- or post-infection situations. However, optimum disease control is achieved when **CABRIO EG FUNGICIDE** is applied in a regularly scheduled protective spray program and is used in a rotation program with other fungicides.

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

DO NOT graze or feed treated crops.
DO NOT use in greenhouses.
DO NOT APPLY BY AIR.

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.

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.

Crops

This product may be used on the following crops:

Blueberries (Highbush and Lowbush)

Bulb Vegetables Group - Onion (all varieties), garlic, leek and shallot.

Cucurbit Vegetables - Citron melon, field cucumber, gherkin, muskmelon (includes cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mago melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), pumpkin, summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow and zucchini), winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash and spaghetti squash) and watermelon.

Fruiting Vegetables - Eggplant, field pepper (bell, chilli, cooking, sweet, pimento) and field tomato.

Root Vegetables - Carrot, radish, garden beet, horseradish, oriental radish, rutabaga, and turnip.

Stone Fruits Group - Apricot, cherry (sweet and tart), nectarine, peach, plum (all varieties) and prune.

Strawberries

Apply recommended rates of **CABRIO EG FUNGICIDE** as instructed by the crop application rate and timing table below. Apply **CABRIO EG FUNGICIDE** with ground spray equipment only. Equipment should be checked frequently for calibrations.

Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Hectare Per Application (kilograms)	Maximum Number of Applications	Maximum Rate Per Hectare Per Season (kilograms)	Days between applications	Minimum water volume (L/ha)
Blueberry (lowbush, highbush)	1 day	1.0	4	4.0	10-14	225
Root Vegetables (carrots, garden beet, horseradish, Oriental radish, rutabaga, turnip and radish)	3 days	1.1	3	3.3	7-14 7 for powdery mildew	225
Cucurbit Vegetables (field cucumber, gherkin, citron melon, muskmelon, squash [summer, winter], pumpkin, watermelon)	3 days	0.84	4	3.4	7 7-14 for powdery mildew	350

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Fruiting Vegetable (field tomato, field pepper [bell, chilli, cooking, pimento, sweet], eggplant)	0 days	1.0	6	6.0	7-14 7 for late blight	225
Bulb Vegetables Group: onions (all varieties), garlic, leeks, shallot	7 days	0.84	3	2.5	7-14 for purple blotch 10 for downy mildew	225
Strawberries	1 day	1.0	5	5.0	7-14	1000
Stone Fruits Group: apricot, cherry (sweet & tart), nectarine, peach, plum, prune	10 days	0.67	5	3.3	7-14	1000

For a complete list of the various crops, see **Crops** listed above.

CROP-SPECIFIC RECOMMENDATIONS

Blueberries (lowbush and highbush)

CABRIO™ EG FUNGICIDE may be used on blueberry for the control of anthracnose and Phomopsis. Begin applications prior to disease development at 1 kg per hectare of **CABRIO EG FUNGICIDE** and continue on a 10-14 day schedule. Use shorter interval when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action.

Bulb Vegetables Group

CABRIO EG FUNGICIDE may be used on all bulb vegetable crops (see **Crops** for complete list). Diseases controlled are Alternaria purple blotch and downy mildew. Begin applications prior to disease development at 0.56-0.84 kg per hectare of **CABRIO EG FUNGICIDE** and continue on a 7-14 day schedule for purple blotch and 10 day schedule for downy mildew. Use the higher rate when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action. Do not apply within 7 days of harvest.

Cucurbit Vegetables

CABRIO EG FUNGICIDE may be used on muskmelon, citron melon, field cucumber, gherkin, summer and winter squash, pumpkin and watermelon (see **Crops** for complete list). Diseases controlled are Alternaria blight, anthracnose, downy mildew, powdery mildew and gummy stem blight. Begin applications on a 7 day schedule prior to disease development at 0.84 kg per hectare of **CABRIO EG FUNGICIDE** for gummy stem blight and 0.56-0.84 kg per hectare of

CABRIO EG FUNGICIDE for Alternaria blight, anthracnose and downy mildew. For powdery mildew apply 0.56-0.84 kg per hectare on a 7-14 day schedule. Use the higher rate and shorter interval when disease pressure is high. Do not make more than one application of **CABRIO EG FUNGICIDE** before alternating to a fungicide with a different mode of action.

Fruiting Vegetables

CABRIO EG FUNGICIDE may be used on field tomato, field pepper (bell, chilli, cooking, pimento, sweet) and eggplant. Diseases controlled are anthracnose, early blight and late blight on all these crops and septoria leaf spot on field tomato only. Begin applications prior to disease development at 0.56-0.84 kg per hectare of **CABRIO EG FUNGICIDE** at 7-14 day intervals for anthracnose and early blight and 0.56-1 kg per hectare of **CABRIO EG FUNGICIDE** at 7 day intervals for late blight on field tomato and eggplant. Use the higher rate and shorter interval when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action. For the control of late blight, do not make more than one application of **CABRIO EG FUNGICIDE** before alternating to a fungicide with a different mode of action. **CABRIO EG FUNGICIDE** may be applied on the day of harvest.

Root Vegetables Group

CABRIO™ EG fungicide may be applied to carrot, horseradish, oriental radish, garden beet, rutabaga, turnip and radish. Diseases controlled are Alternaria, Cercospora and powdery mildew. Begin applications prior to disease development at 0.56-1.1 kg per hectare of **CABRIO EG FUNGICIDE** at 7-14 day intervals for Alternaria and 0.56-0.84 kg per hectare of **CABRIO EG FUNGICIDE** at 7-14 day intervals for Cercospora and at 7 day interval for powdery mildew. Use the higher rate and shorter interval when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action.

Stone Fruits Group

CABRIO EG FUNGICIDE may be applied to all stonefruit crops (see **Crops** for complete list). Diseases controlled are anthracnose on all crops and powdery mildew on cherries (sweet and tart) only. **CABRIO EG FUNGICIDE** also suppresses Monilinia blossom and twig blight on all crops. Begin applications at pink bud or prior to disease development. Apply **CABRIO EG FUNGICIDE** at 0.67 kg per hectare and continue at 7-14 day intervals. Use the shorter interval when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action.

Strawberry

CABRIO EG FUNGICIDE controls anthracnose. Begin applications no later than bloom or prior to disease development. Apply **CABRIO EG FUNGICIDE** at 0.56-1 kg per hectare at 7-14 day intervals. Use the higher rate and shorter interval when disease pressure is high. It is recommended that no more than two (2) applications of **CABRIO EG FUNGICIDE** be made before alternating to an effective fungicide with a different mode of action.

BUFFER ZONES

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

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:				Terrestrial Habitat
			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Root vegetables, cucurbit vegetables, bulb vegetables group		10	2	2	1	1
	Strawberries, blueberries (lowbush, highbush)		10	3	3	1	1
	Fruiting vegetables		10	4	3	1	1
Airblast	Blueberries (lowbush, highbush), stone fruits	Early growth stage	45	30	25	15	1
		Late growth stage	35	20	15	10	1

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

RESISTANCE-MANAGEMENT RECOMMENDATIONS

Mode of Action

Pyraclostrobin, the active ingredient of **CABRIO EG FUNGICIDE**, belongs to the group of respiration inhibitors classified by the EPA and PMRA as Quinone Outside Inhibitors (QoI), or Target Site of Action Group 11 Fungicides.

CABRIO EG FUNGICIDE contains pyraclostrobin, a group 11 fungicide, and is effective against pathogens resistant to fungicides with modes of action different from those of QoI fungicides (Target site group 11), such as for example dicarboximides, sterol inhibitors, benzimidazoles, or phenylamides. Fungal isolates with acquired resistance to group 11 fungicides, such as pyraclostrobin, azoxystrobin, trifloxystrobin, and kresoxim-methyl, may eventually dominate the fungal population if group 11 fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species. This may result in reduction of disease control by **CABRIO EG FUNGICIDE** or other group 11 fungicides.

The following recommendations may be considered to delay the development of fungicide resistance:

1. **Applications:** Adhere to the label instructions regarding the consecutive use of **CABRIO EG FUNGICIDE** or other target site of action Group 11 fungicides that have a similar site of action on the same pathogens. To maintain the performance of **CABRIO EG FUNGICIDE** in the field, do not exceed the total number of sequential applications of **CABRIO EG FUNGICIDE** and the total number of applications of **CABRIO EG FUNGICIDE** per season as stated in the crop section of the label.
2. **IPM: CABRIO EG FUNGICIDE** should be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. Consult your local extension specialist, certified crop advisor and/or BASF for additional IPM strategies established for your area. **CABRIO EG FUNGICIDE** may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favourable for disease development.
3. **Monitor:** 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.
4. **Reporting:** If a group 11 target site fungicide, such as **CABRIO EG 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.

MIXING

1. Clean spray tank following sprayer clean-up recommendations on the label of the product applied previously.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **CABRIO EG FUNGICIDE** to the tank.
4. Continue agitation while filling the remainder of the spray tank.
5. After use, clean the spray tank.

RESTRICTIONS AND LIMITATIONS

Crop Rotation Restrictions

Crops listed on the **CABRIO EG FUNGICIDE** label may be planted immediately following the last application. All other crops can be planted 14 days after last application.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms, non-target terrestrial plants and small wild mammals. Observe 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 strip between the treated area and the edge of the water body.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Wash thoroughly after handling and before eating, drinking or smoking.
3. Wear long sleeved shirt, long pants, chemical resistant gloves, socks and footwear during mixing, loading, application, clean-up and repair. For mixing/loading and application to more than 100 ha of root vegetables, use closed mixing, loading and application systems.
4. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
5. Clean spray equipment thoroughly after use.
6. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.
7. Do not enter or allow worker entry into treated areas during the restricted-entry interval of **12 hours**, except for activities for the following crops:

Crop	Restricted-Entry Interval (REI)	Activity
Highbush blueberry	1 day	Hand harvesting
Bulb vegetables group	3 days	Thinning
Cucurbit vegetables	3 days	Hand harvesting, thinning and pruning
Root vegetables group	3 days	Hand harvesting
Stone fruits group	9 days	Hand thinning and pruning*

*Notify workers of the pesticide application by warning them orally and by posting warning signs at entrances to treated areas. This warning sign **MUST** include the following statement, "DO NOT ENTER TREATED AREA TO DO HAND HARVESTING, THINNING OR PRUNING UNTIL (enter date REI expires)".

8. 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.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION

The patient should be treated symptomatically.

STORAGE

1. Store in original tightly closed container. Protect from freezing.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.

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

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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Cucurbit vegetables	3 days	Hand harvesting, thinning and pruning
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