

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

x Registration
Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

SEP 30 2002

7969-187 Date of Expiration:

September 30,

Term of Issuance:

Unconditional

2007

Name of Pesticide Product:

Cabrio EG Fungicide

Name and Address of Registrant (include ZIP Code):

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered for a period of five (5) years from the date of this letter, in accordance with FIFRA section 3(c)(5), provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Make the changes to the label that are listed below before you release the product for shipment:
- a. Revise the EPA Registration Number to read "EPA Reg. No. 7969-187".
- 3. Satisfy the data requirements listed below by the due date(s) included with each item.
- a. Annually, by December 31 of each year and beginning in 2003, report percent crop treated data for pyraclostrobin for each crop pyraclostrobin is sold for use on.

Signature of Approving Official:	Date:
[5]	SEP 30 2002

EPA Form 8570-6

Page 2 EPA Reg. No. 7969-187

b. Annually submit, by November 15, production information (pounds or gallons produced) for the subject product for the preceding fiscal year in which the uses are conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30 of each calendar year. This information must be submitted to:

U.S. Environmental Protection Agency Office of Pesticide Programs Registration Support Branch Registration Division (7505C) Washington, D.C. 20460

- c. A satisfactory 2-Year Chronic Toxicology Study in rats study must be submitted for female rats by September 30, 2006. The primary deficiency in the results for female rats in the study previously submitted is that the highest administered dose was well below the sub-chronic maximum dose and there were no significant treatment-related toxicological effects.
- d. A satisfactory 18-Month Carcinogenicity Study in mice must be submitted for female mice by September 30, 2006. The primary deficiency in the results for female mice in the study previously submitted is that the highest administered dose was well below the subchronic maximum tolerated dose and there were no significant systemic treatment-related toxicological effects of the dosing.
- e. A satisfactory 2-Generation Multigeneration Reproduction Study in rats must be submitted by September 30, 2005. The primary deficiencies in the study previously submitted are that there were no adverse, treatment-related maternal, reproductive, or offspring effects at the highest dose tested, and the limit dose was not approached.
- f. A satisfactory 28-Day Dermal Toxicity Study in rats must be submitted by September 30, 2004. The primary deficiencies in the study previously submitted is that there were no treatment-related systemic effects noted at the highest dose tested, and the limit dose was not approached.
- g. A satisfactory 28-Day Inhalation Toxicity Study in Rats must be submitted by September 30, 2004. This study is required due to the potential for inhalation occupational/residential exposure, which we cannot currently assess. This study must be performed using: a) the same form of pyraclostrobin to which workers will be exposed and b) the protocol for the 90-Day Inhalation Toxicity Study, but over a 28-day exposure period.

Page 3 EPA Reg. No. 7969-187

- h. A satisfactory Aerobic Aquatic Metabolism (Guideline Requirement Number (GRN) 162-4) study must be submitted by September 30, 2005. One of the two studies submitted previously was judged to be Supplementary, the other Unacceptable.
- i. A satisfactory study of the acute aquatic toxicity of the major pyraclostrobin degradates, BF 500-3 and BF 500-6, to freshwater fish (rainbow trout) must be submitted by September 30, 2005.
- j. A satisfactory study of the acute aquatic toxicity of the major pyraclostrobin degradates, BF 500-3 and BF 500-6, to freshwater invertebrates (daphnia) must be submitted by September 30, 2005.
- k. A satisfactory study of the acute aquatic toxicity of the major pyraclostrobin degradates, BF 500-3 and BF 500-6, to freshwater green algae must be submitted by September 30, 2005.
- l. A satisfactory study of the acute aquatic toxicity of pyraclostrobin to sediment-dwelling organisms (chironomids and amphipods) must be submitted by September 30, 2005.
- m. A satisfactory Mysid Life-cycle Study of pyraclostrobin must be submitted by September 30, 2005.
- n. A satisfactory avian acute toxicity study using the formulated product Headline EC must be submitted by September 30, 2005.
- o. A satisfactory fish acute toxicity study using the formulated product Headline EC must be submitted by September 30, 2005.
- p. BASF must modify, within three (3) months of BASF's receipt of them from the Agency, the two tolerance enforcement methods for determination of the residues of pyraclostrobin and its desmethoxy metabolite in or on plant commodities, 1) the LC/MS/MS method D9808 and 2) the HPLC/UV method D9904, to include any modifications made by the EPA laboratory during the Agency laboratory validation.
- q. BASF must modify, within three (3) months of BASF's receipt of them from the Agency, the two tolerance enforcement methods for determination of the residues of pyraclostrobin in or on ruminant commodities, 1) the HPLC/UV method 439/0 and 2) the HPLC/UV method 446 (consisting of GC/MS method 446/0 and LC/MS/MS method 446/1), to include any modifications made by the EPA laboratory during the Agency laboratory validation.

Page 4 EPA Reg. No. 7969-187

- r. The geographic distribution in the U.S. of the residue data for the dried shelled pea and bean (except soybean) subgroup is not adequate to allow establishment of a dried pea tolerance and inclusion of dried peas on the label. If BASF still desires the dried pea use you must submit five (5) additional dry pea seed trials from Region 11. These trials must reflect the application of the 2 lb./gallon WDG formulation according to the maximum proposed use rate and must report the results for the food commodity and also for the feed commodities field pea vines and field pea hay. The Canadian trials that were conducted in Zone 14 cannot be used to support the U.S. registration because this zone does not border Region 11.
- s. If BASF still desires addition of the foliage of legume vegetables (except soybeans) subgroup, you must submit a satisfactory study reporting the residue results of three (3) field trials on field peas and of three (3) field trials on a cultivar of bean (cowpea is the preferred commodity), all of which reflect the maximum proposed use pattern of the 2 lb./gallon WDG formulation. This study must be submitted by September 30, 2005.
- t. A satisfactory storage stability study, adequate to support the storage conditions and intervals of the milk fat and tissue samples from the ruminant feeding study, must be submitted by September 30, 2004.
- u. A satisfactory study containing additional information confirming that rotational crop samples were analyzed within the interval represented by the storage stability study must be submitted by September 30, 2004.
- 4. Submit one copy of your final printed label before you release this product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

The registration of the subject product shall terminate automatically on September 30, 2007 unless the Agency, prior to that date and in writing, amends this term and condition to alter or eliminate this termination date. Your release for shipment of the product constitutes acceptance of all preceding conditions.

Attachments: Product label, stamped "Accepted with Comments" A-79 Enclosure

BASF

GROUP

11

FUNGICIDE



For use in berries, bulb vegetables, cucurbit vegetables, fruiting vegetables, grapes, pistachios, root vegetables, tree nuts, stone fruits, and strawberries

Active Ingredient:

Pyraclostrobin (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl] 20.0% Other ingredients

EPA Reg. No.: 7969-RIT Est. No.: 51036-GA-001

KEEP OUT OF REACH OF CHILDREN. CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See inside booklet for complete First Aid, Precautionary Statements. Directions For Use, and Conditions of Sale and Warranty.

Net contents:

ACCEPTED with COMMENTS In EPA Letter Dated:

SEP 30 2002

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

FIRST AID					
Call a poison control center 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 center or doctor. Do not give anything by mouth to an unconscious person.					
Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor for treatment advice					
Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye Call a poison control center or doctor for treatment advice					
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 center or doctor for further treatment advice					
HOT LINE NUMBER					

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information. 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals CAUTION. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. For more options, refer to category **A** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate)
- Shoes plus socks

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

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing qum, using tobacco, or using the toilet.
- Remove clothing 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.

Environmental Hazards

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

7/23

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms. forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours for all crop uses except berries and grapes. REI for treated berries is 24 hours. REI for treated grapes

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls

is 5 days.

- Chemical-resistant gloves made of any waterproof material (such as Nitrile, Butyl, Neoprene, and or Barrier Laminate)
- Shoes plus socks

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

- Pesticide Storage: Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label
- Pesticide Disposal: Wastes resulting from using this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous

Waste representatives at the nearest EPA Regional Office for guidance

Container Disposal: Triple rinse (or equivalent)
 Puncture and dispose of in a sanitary landfill, or by
 incineration, or if allowed by state and local
 authorities by burning. If burned stay out of
 smoke.

In Case of Spill

In case of large-scale spillage regarding this product call:

CHEMTREC

800-424-9300

BASF Corporation

800-932-HELP (4357)

Steps to be taken in case material is released or spilled:

Dike and contain the spill with mert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

I. General Information

This package contains **Cabrio EG fungicide**, a water dispersable granule (EG). The active ingredient in **Cabrio**, pyraclostrobin, is a member of the **strobilurin class of chemistry** and is derived from a natural antifungal substance. Optimum disease control is achieved when **Cabrio** is applied in a regularly scheduled protective spray program and is used in a rotation program with other fungicides. Because of its high specific activity, **Cabrio** has good residual activity against target fungi.

Cabrio is not for use in greenhouse or transplant production.

Mode of Action:

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

Resistance Management

Cabrio 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 resistant 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** or other **group 11** fungicides.

To maintain the performance of CabrioTM EG fungicide in the field, do not exceed the total number of sequential applications of Cabrio and the total number of applications of Cabrio per season stated in Sections V. and VI. Adhere to the label instructions regarding the consecutive use of Cabrio or other target site of action group 11 fungicides that have a similar site of action on the same pathogens.

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

- **1. Tank mixtures:** Use tank mixtures with fungicides from different target site of action Groups that are registered/permitted for the same use and that are effective against the pathogens of concern. BASF recommends using at least the minimum labeled rates of each fungicide in the tank mix.
- 2. IPM: Cabrio 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 representative for additional IPM strategies established for your area. Cabrio may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favorable for disease development.
- **3. Monitoring:** 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 a **group 11** target site fungicide, such as **Cabrio**, appears to be less effective against a pathogen that it previously controlled or suppressed, contact a BASF representative, local extension specialist, or certified crop advisor for further investigation.

Cleaning Spray Equipment

Spraying equipment must be cleaned thoroughly before and after applying this product, particularly if a product with potential to injure crops was used prior to **Cabrio**.

II. Application Instructions

Apply recommended rates of **Cabrio** as instructed by **Section VI. Crop-Specific Recommendations**. Apply **Cabrio** with ground sprayer, aerial equipment or through sprinkler irrigation equipment. Equipment.

should be checked frequently for calibration.

Under low-level disease conditions, the minimum application rates can be used while maximum application rates and shortened spray schedules are recommended for severe or threatening disease conditions. Do not apply when conditions favor drift from target area or when windspeed is greater than 6 mph.

Ground Application: Apply **Cabrio** in sufficient water to ensure thorough coverage of foliage. bloom. and fruit. Thorough coverage is required for optimum disease control.

Aerial Application: Use no less than 5 gallons of spray solution per acre. For aerial application to tree crops, use no less than 10 gallons of spray solution per acre.

Directions for Use Through Sprinkler Irrigation Systems.

Sprayer Preparation: Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Application Instructions: Apply **Cabrio** at rates and timings as described in this label.

Use Precautions for Sprinkler Irrigation Applications:

- Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.
- Add this product to the pesticide supply tank. containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product-water mixture continuously, applying the labeled rate per acre for that crop. Do not exceed 1/2 inch (13,577 gallons) per acre. In stationary or non-continuous moving systems, inject the product-water mixture in the last 15-30 minutes of each set allowing sufficient time for all of the required pesticide to be applied by all the sprinkler heads and applying the labeled rate per acre for that crop. Do not apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Thorough coverage of foliage is required for good control Good agitation should be maintained during the entire application period.

- Tyou have questions about calibration you should contact State Extension Service specialist equipment manufacturers or other experts
- The system must contain a functional check valve acuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to crevent water-source contamination from backflow
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a
 positive displacement injection pump (e.g.,
 diaphragm pump), effectively designed and
 constructed of materials that are compatible with
 pesticides and capable of being fitted with a system
 interlock.
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide labelprescribed safety devices for public water systems are in place.

Specific Instructions for Public Water Systems:

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional, reducedpressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction.

- As an option to the RPZ, the water from the public water system should be discharged into a reservor tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3 The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a
 positive displacement injection pump, (e.g.,
 diaphragm pump), effectively designed and
 constructed of materials that are compatible with
 pesticides and capable of being fitted with a
 system interlock.

III. Additives and General Tank Mixing Information

Cabrio™ EG fungicide can be tank mixed with most recommended fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives as specified in Section VI. Crop-Specific Recommendations.

Under some conditions, the use of additives or adjuvants may improve the performance of **Cabrio**. However, all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products. Therefore, before using any tank mix (fungicides, insecticides, herbicides, liquid fertilizers, biological control products, adjuvants, and additives), test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application

Consult a BASF representative or local agricultural authorities for more information concerning additives

IV. Mixing Order

- Water. Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3! **Inductor.** If an inductor is used rinse it thoroughly after each component has been added
- 4) Products in PVA bags. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 5) Water-dispersible products (such as Cabrio™ EG fungicide, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 6) Water-soluble products.
- Emulsifiable concentrates (such as oil concentrates when applicable).
- 8) **Water-soluble additives** (such as AMS or UAN when applicable).
- 9) Remaining quantity of water.

Make sure that each component is thoroughly mixed and suspended before adding tank mix partners. Maintain constant agitation during application. See **Section VI. Crop-Specific Recommendations** for more details.

V. General Restrictions and Limitations All Crops

- Maximum seasonal use rate: Do not apply more than the maximum rate per acre per season as listed in Table A. Crop-Specific Restrictions and Limitations and Section VI. Crop-Specific Recommendations.
- Maximum rate per application: Do not apply more than the maximum rate per acre per application as listed in Table A. Crop-Specific Restrictions and Limitations and Section VI. Crop-Specific Recommendations.
- Do not make more than the total number of applications of Cabrio per season, as listed in Table A. Crop-Specific Restrictions and Limitations and not exceeding the maximum seasonal use rate. Also see Section VI. Crop-Specific Recommendations.
- Pre-harvest Interval (PHI): See Table A. Crop-Specific Restrictions and Limitations and Section VI. Crop-Specific Recommendations.
- **Cabrio** is not for use in greenhouse or transplant production.

Crop Rotation Restriction: Crops listed on the Cabrio™ EG fungicide and Headline* fungicide labels may be planted immediately following the last application.

All other crops can be planted 14 days after the last application.

Table A. Crop	-Specific Restri	ictions and Lin	nitations			
Crop	Minimum Time from Application to Harvest (PHI) (days)	Maximum Rate per Acre per Application (oz.)	Maximum Number of Sequential Applications	Maximum Number of Applications per Season	Maximum Rate per Acre per Season (oz.)	Livestock Grazing or Feeding
Berry Group Blueberry, Caneberry, Raspberry	0	14	2	4	5ΰ	NA.
Bulb Vegetables Group¹: Onion, Garlic, Leeks	7	12	2	6	72	NA
Cucurbit Vegetables Group ¹ : Cantaloupe, Cucumber, Meion, Squash, Pumpkin, Watermelon	. 0	16	1	4	64	NA
Fruiting Vegetables Group: Tomato, Bell pepper, Chili pepper, Eggplant	0	16	2	6	96	NA
Grapes ²	14	12	- 2	6	72	NA
Pistachio	14	16	2	4	64	NA
Root Vegetables (except sugar beet) Subgroup Carrot, Radish (roots & tops)	i	16	2	3	48	Yes for carrot culls
Stone Fruits Group¹: Apricot, Cherry, (sweet and tart) Nectarine, Peach, Plum, Prune	0	9.5	2	5	47.5	NA
Strawberries	0	14	2	5	70	NA
Tree Nuts Group': Almond, Pecan	14 (For almond - 5 weeks after petal fall)	9.5	2	4	38	Yes for almond hulls
1.	1	1	1	1	l .	ŀ

For a complete list of crops within a crop group, see Section VI. Crop-Specific Recommendations.

Do not use on Concord Worden or Fredonia varieties due to possible foliar injury.

NA = not applicable

Aerial Application is permitted for all labeled crop uses.

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)		
Berry Group	Alternaria leaf spot and fruit rot (Alternaria spp.)	14 oz per acre	4 .	56 oz per acre	0 days		
Group Blackberry (all varieties) Blueberry Currant Elderberry Gooseberry Huckleberry Loganberry (black and red	Anthracnose (Colletotrichum. spp., Elsinoe spp.) Leaf spot and blotch (Mycosphaerella spp., Septoria spp.) Phomopsis leaf spot. twig blight, and fruit rot (Phomopsis spp.) Powdery mildew (Sphaerotheca spp., Microsphaera spp., Oidium spp.) Rust (Puccianiastrum spp., Arthuriomyces spp., Phragmidium spp., Kuehneola spp.) Spur blight (Didymella spp., Phoma spp.) Suppression only Botrytis gray mold (Botrytis cinerea) Monilinia blight				·		
	(Monilinia spp.) Application Directions: Begin applications of Cabrio™ EG fungicide prior to disease development and continue on a 7- to 14-day interval.						
	Use the shorter interval when o	fisease pressure	is high.				
	Do not enter treated area within 24 hours of the most recent application. Refer to the "Agricultural Use Requirements" box on page 3 for PPE required for each entry to treated areas as permitted under the Worker Protection Standard.						
	Resistance Management To more than four (4) applications	limit the potential of Cabrio or oth	al for developme er strobilurin (Qo	ent of resistance, do oil) fungicides per s	o not make eason.		
	Do not make more than two (2						

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)		
Bulb Vegetables Group Onions (all varieties) Garlic Leek Shallot	Alternaria purple biotch (Alternaria porri) Powdery mildew (Leveillula taurica)	8 to 12 oz. per acre	6	72 oz per acre	. 7 days		
	Downy mildew (Peronospora destructor)	12 oz. per acre					
	Application Directions: For control of Alternaria purple blotch and powdery mildew, begin applications of Cabrio™ EG fungicide prior to disease development and continue on a 14-day interval. Use the higher rate when disease pressure is high.						

Applications made to control Alternaria purple blotch and powery mildew will also suppress downy mildew. To achieve adequate control of downy mildew, apply **Cabrio** at the first sign of disease, then follow application of **Cabrio** with a labeled non-strobilurin (non-Qol) fungicide 5 to 7 days later. Do not make sequential applications of **Cabrio** when downy mildew occurs. See **Resistance Management** statement below

Resistance Management: To limit the potential for development of resistance, do not make more than six (6) applications of **Cabrio** or other strobilurin (QoI) fungicides per season.

Do not make more than two (2) sequential applications of Cabrio before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action.

For downy mildew, do not make more than one (1) application of Cabrio before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action.

					NA:
Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application To Harvest (PHI)
Cucurbit Vegetables Group	Downy mildew (Pseudoperonospora cubensis)	8 to 12 oz. per acre	4	64 oz.	0 days
Chayote Chinese waxgourd Citron melon Cucumber Gherkin Pumpkin Watermelon	Alternaria blight (Alternaria cucumerina) Anthracnose (Colletotrichum orbiculare)	12 to 16 oz. per acre			
Edible gourd Hyotan Cucuzza Chinese okra Momordica Spp. Balsam apple Balsam pear Bitter melon Chinese cucumber Muskmelon Cantaloupe Casaba Crenshaw melon Golden pershaw melon Honeydew melon Honeydew melon Honey balls Mango melon Persian melon Pineapple melon Santa Claus melon Santa Claus melon Snake melon Snake melon Summer squash Crookneck squash Scallop squash Straightneck squash Vegetable marrow Zucchini Winter squash Butternut]				
squash Calabaza Hubbard squash Acorn squash Spaghetti squash					

See the next page for further instructions.

Cucurbit Vegetables Group Information

Application Directions: Begin applications of Cabrio™ EG fungicide prior to disease development and continue on a 7- to 14-day interval. Use the higher rate and the shorter interval when disease pressure is high

Do not use Cabrio for control of gummy stem blight where resistance to strobilurin (QoI) fungicides exists

Do not use **Cabrio** tank mixes with additives or adjuvants on muskmeion crops such as cantaloupe and honeydew or crop injury may result

For cucurbit crops other than melons, the use of additives or adjuvants may improve the performance of **Cabrio**. However, BASF evaluations also indicate that under some conditions (particularly high temperatures and/or high additive rates) application of **Cabrio** in combination with certain rates of silicone-based or oil-containing (petroleum or crop) additives or adjuvants can cause injury to some cucurbit crops.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products.

The user assumes all risks associated with adding products to the **Cabrio** spray solution. BASF cannot be held responsible for crop injury, reduced disease control or incompatibility due to additives, adjuvants or other products used in combination with **Cabrio**. Refer also to the Conditions of Sale and Warranty section of this label.

To minimize the likelihood of crop injury. BASF recommends testing **Cabrio** in combination with other products for crop safety on a small portion of the crop. However, environmental variability precludes direct and consistent projection of small area test results to future use.

Consult a BASF representative for more information concerning additives or adjuvants.

Do not tank mix **Cabrio** with Malathion, Kelthane', Thiodan', Phaser', Lannate', Lorsban', M-Pede', or Botran' as crop injury may result.

Resistance Management: To limit the potential for development of resistance, do not make more than four (4) applications of **Cabrio** or other strobilurin (QoI) fungicides per crop.

Do not make more than one (1) application of **Cabrio** before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action.

For additional resistance management information, refer to **Section I. General Information, Resistance Management**.

Сгор	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Fruiting Vegetable Group Eggplant Ground cherry Pepino Pepper (all varieties) Tomatillo Tomato	Anthracnose (Colletotrichum spp.) Early blight (Alternaria solani) Powdery mildew (Leveillula taurica) Septoria leaf spot (Septoria	8 to 12 oz per acre or 8 to 12 oz per 100 gallons of spray volume (dilute)		96 oz. per acre	O days ,
	Late Blight (Phytophthora infestans)	8 to 16 oz. per acre			

Application Directions: Begin applications of CabrioTM EG fungicide prior to disease development and continue on a 7- to 14-day interval for Anthracnose, early blight, powdery mildew, and Septoria leaf spot. For control of late blight, begin applications prior to disease development, then follow application of Cabrio with a labeled non-strobilurin (non-Qol) fungicide 5 to 7 days later. Use the higher rate and the shorter interval when disease pressure is high.

*For applications based on dilute volume, plants should be sprayed to runoff. Apply a minimum of 20 gallons of spray volume per acre, and increase the spray volume as the plants grow during the season. Spray volume should be proportional to the amount of plant tissue to be covered such that 100 gallons of spray per acre is used on mature plants.

The use of additives or adjuvants may improve the performance of **Cabrio** on fruiting vegetables. However, BASF evaluations also indicate that under some conditions (particularly high temperatures and/or high additive rates), application of **Cabrio** in combination with certain rates of silicone-based or oil-containing (petroleum or crop) additives or adjuvants can cause injury.

BASF has not tested all varieties and cultivars with all possible tank mix combinations and rates of additives or adjuvants. Local environmental conditions also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility, reduced disease control, or crop injury may result from mixing **Cabrio** with other products.

The user assumes all risks associated with adding products to the **Cabrio** spray solution. BASF cannot be held responsible for crop injury, reduced disease control or incompatibility due to additives, adjuvants or other products used in combination with Cabrio. Refer also to the Conditions of Sale and Warranty section of this label.

To minimize the likelihood of crop injury. BASF recommends testing Cabrio in combination with other products for crop safety on a small portion of the crop. However, environmental variability precludes direct and consistent projection of small area test results to future use.

Consult a BASF representative for more information concerning additives or adjuvants.

Resistance Management: To limit the potential for development of resistance, do not make more than six (6) applications of **Cabrio** or other strobilurin (QoI) fungicides per crop.

For control of late blight, do not make more than one (1) application of **Cabrio** before alternating to a labeled non-strobilurin inon-Qol) fungicide with a different mode of action

For control of diseases other than late blight, do not make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action

For additional information pertaining to resistance management, refer to **Section I. General Information**, **Resistance Management**.

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Vitis vinifera and rotundifolia (Muscadine) varieties only	Angular leaf scot (Mycosphaere a angulata) Anthrachose (Elsinoe ampeina) Black rot (Guignardia bidwellii) Downy mildew (Plasmopara viticola) Mycosphaerella leaf blight (Pseudocercospora vitis) Phomopsis (Phomopsis viticola) Powdery mildew (Uncinula necator) Ripe rot (Colletotrichum gloeosporioides) Suppression only Botrytis gray mold (Botrytis cinerea)	8 to 12 bz per acre	Φ.	72 oz per acre	14 days

Application Directions: For powdery mildew control, begin applications of Cabrio™ EG fungicide at pre-bloom on a 10- to 21-day interval. For black rot and downy mildew control, begin applications of Cabrio at pre-bloom on a 10- to 14-day interval. For all other diseases listed above, begin applications of Cabrio prior to disease development and continue on a 10 to 14 day interval.

Use the higher rate and the shorter interval when disease pressure is high.

Do not enter treated area within 5 days of the most recent application. Refer to the "Agricultural Use Requirements" box on page 3 for PPE required for early entry to treated areas as permitted under the Worker Protection Standard.

Do not use on Concord, Worden, or Fredonia varieties due to possible foliar injury.

Resistance Management: To limit the potential for development of resistance, do not make more than six (6) applications of **Cabrio** or other strobilurin (Qol) fungicides per crop

Do not make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action.

Сгор	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Pistachio	Late blight (Alternaria alternata) Shoot blight (Botryosphaeria dothidea) Application Directions: continue on a 10- to 30-centinue on a 10- to 30-cen	ent: To limit the papplications of Ca two (2) sequential on-Qol) fungicide	otential for develop (brio of other stron applications of Ca with a different mo	pment of resistan bilurin (Qol) fungion Babrio before alter ade of action.	ice, do not cides nating to a

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Root Vegetables (except sugar beet) Subgroup:	Alternaria leaf spot (Alternaria spp : Cercospora leaf spot (Cercospora spp)	8 to 12 oz per acre	3	48 oz per adre	O days
Carrot Radish (roots and tops) Garden beet	Powdery mildew (<i>Erysiphe</i> spp)				
Edible burdock Celeriac Chervil	White rust (Albugo spp.)	8 to 16 oz per acre			;
Chervil (turnip-rooted) Chicory Ginseng Horseradish Parsley (turnip- rooted) Parsnip Oriental radish Rutabaga Black salsify Spanish salsify Turnip	Application Directions: development and continue Use the higher rate and the Resistance Management make more than three (3) a per crop. Do not make more than two labeled non-stroilurin (non-0)	on a 7- to 14-day shorter interval was To limit the pote pplications of Cab	interval. then disease presential for developerio or other stro	ssure is high ment of resistan billurin (Qol. Fagi	ce, do not cides

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Stone Fruits Group Apricot Cherry (sweet and tart) Nectarine Peach Plum (all varieties) Plumcot Prune	Alternaria leaf spot i Alternaria spp.) Anthracnose (Coiletotrichum spp.) Monilinia blossom blight (Monilinia spp.) Powdery mildew (Sphaerotheca spp Podosphaera spp) Scab (Cladosporium carpophilium) Shothole (Wilsonomyces carpophilus)	9.5 oz. per acre		47.5 oz per acre	O days

Application Directions: Begin applications of **Cabrio™ EG fungicide** at pink bud or prior to disease development and continue on a 7- to 14-day interval.

Use the shorter interval when disease pressure is high.

Resistance Management: To limit the potential for development of resistance, do not make more than five (5) applications of **Cabrio** or other strobilurin (QoI) fungicides per crop.

Do not make more than two (2) sequential applications of **Cabrio** before alternating to a labeled non-strobilurin (non-Qol) fungicide with a different mode of action.

For aerial application to stone fruit tree crops, use no less than 10 gallons of spray solution per acre.

Crop	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)	
Strawberries	Anthracnose (Colletotrichum spp.) Leaf spot (Mycosphaerella fragariae): Powdery mildew (Sphaerotheca macularis) Suppression only Botrytis gray mold	12 to 14 oz. per acre	5	70 oz per acre	o days	
·	Application Directions: Begin applications of Cabrio [™] EG fungicide no later than bloom or prior to disease development and continue on a 7- to 14-day interval. Use the higher rate and the shorter interval when disease pressure is high Resistance Management: To limit the potential for development of resistance do not make more than five (5) applications of Cabrio or other strobillurin (QoI) fungicides per crop. Do not make more than two (2) sequential applications of Cabrio before alternating to labeled non-strobillurin (non-QoI) fungicide with a different mode of action.					

Сгор	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)
Tomatoes	See Fruiting Vegetables Group				

Сгор	Target Diseases	Use Rate per Application	Maximum Number of Applications per Season	Maximum Rate per Season	Minimum Time from Application to Harvest (PHI)		
Tree Nuts Group	Anternaria leaf spot (Alternaria spp.) Anthracnose	9 5 oz per acre	4	33 bz. per adre	14 days (for almond - 5 weeks after petal fall)		
Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory nut Macadamia nut Pecan Walnut (black and English)	(Colletotrichum spp.) Leaf rust (Tranzschelia discolor) Scab (Cladosporium carpophilum. C. caryigenum) Shothole (Wilsonomyces carpophilus) Suppression only Blossom blight				petal law		
	Application Directions: In almond, begin sprays of Cabrio [™] EG fungicide at pink bud and continue on a 7- to 14-day interval. In pecan, begin application of Cabrio prior to disease development and continue on a 7- to 21-day interval. For all other crops listed above, apply Cabrio prior to disease development and continue on a 7- to 28-day interval. Use the shorter interval when disease pressure is high. Resistance Management: To limit the potential for development of resistance, do not make more than four (4) applications of Cabrio or other strobilurin (QoI) fungicides per crop. Do not make more than two (2) sequential applications of Cabrio before alternating to a labeled non-strobilurin (non-QoI) fungicide with a different mode of action. For aerial application to tree crops, use no less than 10 gallons of spray solution per acre.						

Conditions of Sale and Warranty

The Directions For Use of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above. BASE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY, IN NO CASE SHALL BASE OR THE SELLER BE LIABLE FOR CONSEQUENTIAL. SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

Cabrio EG is a trademark of BASF Corporation
Headline is a registered trademark of BASF Corporation
Botran is a registered trademark of Gowan Company
Lorsban and Kelthane are registered trademarks of Dow Agro
Sciences LLC

Lannate is a registered trademark of Du Pont Crop Protection M-Pede is a registered trademark of Mycogen Corporation Phaser and Thiodan are registered trademarks of Hoechst Schering AgrEvo Ltd.

Pounce is a registered trademark of FMC Corporation Sencor is a registered trademark of Bayer

> © 2002 BASF Corporation All rights reserved 007969-00230.20020927 NVA 2001-04-089-0230mA Revised 9-27-02

BASE Corporation Agricultural Products 26 Davis Drive Research Triangle Park INC 27709

BASF

Agricultural Products



