

Mr. Greg R. Watson  
 Agricultural Division  
 Ciba-Geigy Corporation  
 P.O. Box 18300  
 Greensboro, NC 27419-8300

MAY 04 1992

Dear Mr. Watson:

Subject: Revised Labeling  
 Banner  
           EPA Registration No. 100-641  
 Banner GL  
           EPA Registration No. 100-736  
 Your Submission Dated December 23, 1992

The labeling referred to above, submitted in connection with registration under the Federal, Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following comments:

1. For Banner Labeling: For Shasta Fir and citrus, indicate when to apply and the frequency or schedule of repeat applications. Also, include the information as stated for Banner GL under Recommended Rates and Timing.
2. For Banner GL Labeling: Label is acceptable.

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER on August 21, 1992 (57 FR 38102). Further guidance will be issued. According to 40 CFR 156, subpart K, specifically § 156.200(c)(3): No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

A stamped label for each product is enclosed for your record. Submit five (5) copies of the revised labeling.

CONCURRENCES							
SYMBOL	HT5056						
SURNAME	Watson						
DATE	5/4/93						

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If you have any questions regarding this matter, please contact me or Sidney Jackson at (703) 305-7610.

Sincerely yours,



Clarence O. Lewis, III  
Acting Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

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ACCEPTED  
with COMMENTS  
EPA Letter Dated:

MAY 04 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.  
100-736

MASTER LABEL BOOKLET  
(For Update Purposes Only)

BANNER® GL

FUNGICIDE

Broad spectrum and systemic  
disease control for turf and  
ornamentals

This outer protective container holds Banner GL in 6 individual  
water soluble packets which are designed to dissolve in water.  
Do not handle the soluble packets excessively or expose them to  
moisture, since this may cause them to rupture.

Active Ingredient:

Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl- 1,3-dioxolan-2yl]methyl]-1H-1,2,4- triazole .....	41.8%
<u>Inert Ingredients:</u>	<u>58.2%</u>
Total:	100.0%

EPA Reg. No. 100-736

EPA Est. 100-AL-1

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés  
no use este producto hasta que la etiqueta haya  
sido explicado ampliamente.

See additional precautionary statements  
and directions for use inside booklet.

CGA

6 X 7 oz. Soluble Packets  
Total 42 Ounces Net Weight

CIBA-GEIGY

[GANNONC.LABELB] - [BANNRGEL] - 12/18/92

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect 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 the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY 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. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY 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 CIBA-GEIGY.

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DIRECTIONS FOR USE

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It is a violation of federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

Reentry Statement

Do not apply this product in such a manner as to directly or through drift expose workers or other persons, except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING. Area treated with Banner GL on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental eye contact, flush eyes with plenty of water. Get medical attention. In case of contact with skin, wash thoroughly with soap and water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse."

General Information

Banner GL is a systemic fungicide for use on turfgrasses for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Corticium fuciforme*), rust (*Puccinia graminis*), powdery mildew (*Erysiphe graminis*), stripe smut (*Ustilago striiformis* and *Urocystis agropyri*), summer patch (*Magnaporthe poae*), spring dead spot (*Leptosphaeria korrea*), gray leafspot (*Pyricularia grisea*), pink snowmold (*Fusarium nivale*), gray snowmold (*Typhula* spp.), and zoysia patch.

Banner GL also controls numerous diseases on ornamentals and

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other landscape and nursery plantings. It controls powdery mildews, rusts, leafspots, and blights. Refer to the appropriate section for specified diseases and plants.

Note: Do not apply this product through any type of irrigation system. Do not use Banner GL as a tree injection.

### Mixing Procedures

Wear rubber gloves, goggles or face shield, and a long-sleeved shirt when mixing and loading Banner GL. Thoroughly clean spray equipment before using this product to remove contaminants which may cause crop injury or sprayer clogging. Prepare no more spray mixture than is required for the immediate operation. Agitate thoroughly before and during application such that a rippling or rolling action is created at the liquid surface. Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already-treated area.

Precautions: 1) Soluble packets of Banner GL must be dissolved completely in water before any other tank mix partner, including micronutrients or other liquid or dry fertilizer, is added to the spray solution. 2) Do not use with oils or adjuvants.

Banner GL Alone: Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble packets of Banner GL into the tank. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the packets have dissolved and the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Banner GL + Tank Mixtures: For broader spectrum control, Banner GL can be tank mixed with other fungicides. For example, Subdue® or Pace® may be tank mixed with Banner GL or used alone when conditions are favorable for Pythium blight. Banner GL is usually compatible with Chipco® 26019, Daconil 2787®, Fore®, Pace, Pennant®, Sprint® 330, Subdue 2E, Tersan® 1991 and Triumph® 4E. Do not mix Banner GL and Tersan 1991 in a fertilizer solution. Contact your dealer or a CIBA-GEIGY sales representative for additional information on compatibility of other tank mix partners.

Add 1/2 to 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble packets of Banner GL into the tank. Continue agitation while adding the remainder of the water. Tank mix partners may only be added when 1) the Banner GL packets and their contents have dissolved and dispersed in the tank, and 2) when the tank has filled with water. Continue agitation when adding the tank mix partners and while spraying the solution onto the crop.

-When using two or more products packaged in water-soluble pack-

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ets, add the Banner GL to the tank first. Allow the packet to completely dissolve and the product to completely disperse into the mix water. Then add the other product packaged in a water-soluble packet and allow it to fully dissolve and disperse. Maintain rolling agitation throughout the entire mixing and spraying process.

If using Banner GL in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions and limitations which appear on the tank mix partner label. No label dosage rate should be exceeded and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Turfgrass and Dichondra Disease Control

1. USE BANNER GL IN A PREVENTATIVE DISEASE CONTROL PROGRAM.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing OR allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For control of soil-borne diseases, Banner GL can be watered in after application.
6. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
7. For optimum turf quality and disease control, use Banner GL in conjunction with turf management practices that promote good plant health and optimum disease control.
8. Addition of surfactants may result in phytotoxicity.
9. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.

**CAUTION:** Bermudagrass can be sensitive to Banner GL. Do not apply more than 1 packet per 5,000 sq. ft. every 30 days on any variety of bermudagrass. In Florida, do not apply Banner GL to Bermudagrass golf course greens when temperatures exceed 90°F.

**NOTE:** (1) To avoid possible illegal residues, do not graze animals on treated areas and (2) do not feed clippings from treated areas to livestock or poultry.

Turfgrass - Specific Diseases, Rates and Application Timing

<u>Disease</u>	<u>Area to be Treated per Packet (sq. ft.)</u>	<u>Application Interval/Timing</u>	<u>Instructions</u>
Dollar Spot	40,000	7-14 days	Apply when conditions are favorable for disease development. If the 40,000 sq. ft. rate is used, tank mix with the lowest label rate of another EPA-registered fungicide having a different mode of action. If using the 10,000 sq. ft. rate, make no more than 3 consecutive applications for dollar spot control before rotating to an alternate EPA-registered fungicide having a different mode of action.
	10,000	14-28 days	



<u>Disease</u>	<u>Area to be Treated per Packet (sq. ft.)</u>	<u>Application Interval/ Timing</u>	<u>Instructions</u>
Brown Patch	5-10,000	10-21 days	Begin applica- tions in May or June before disease is present. If disease is present, mix 1 packet Banner GL per 10,000 sq. ft. with a registered contact fungicide at the labeled rate. Under conditions of high temperature and high humidi- ty, use the high- er rates and shorter intervals.
Powdery Mildew, Rust, thracnose	10-20,000	14-28 days	Apply when conditions are favorable for An- disease development.
Red Thread	10,000	14-21 days	Apply when conditions are favorable for disease development.

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<u>Disease</u>	<u>Area to be Treated per Packet (sq. ft.)</u>	<u>Application Interval/ Timing</u>	<u>Instructions</u>
Stripe Smut	10-20,000	Fall or Spring	Apply once in the fall after grass becomes dormant or in the early spring before grass starts to grow.
Gray Leafspot (St. Augustinegrass sod production)	10,000	14 days	Apply when conditions are favorable for disease development.
Melting Out, Leaf Spot	5-10,000	14 days	Under light to moderate pressure, apply Banner GL to reduce the severity of leaf spot and melting out caused by Helminthosporium type pathogens.
Summer Patch, Poa Patch	5,000	30 days	Apply Banner GL at monthly intervals beginning in April. Make 2-3 applications depending on local recommendations.
Spring Dead Spot (California Only)	5,000	30 days	Apply Banner GL at monthly intervals beginning in August. Make three applications.

<u>Disease</u>	<u>Area to be Treated per Packet (sq. ft.)</u>	<u>Application Interval/ Timing</u>	<u>Instructions</u>
<b>Snowmold</b>			
Gray - <u>Typhula</u> spp.	5,000	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow.
Pink - <u>Fusarium</u> <u>nivale</u>			

Zoysia patch, large patch of zoysia	3,500- 5,000	Early Fall	Make one application in the early fall (mid-September to mid-October) prior to development of disease symptoms. Consult local turfgrass extension experts to determine the optimum application timing for your area.
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Dichondra - Specific Diseases, Rate and Application Timing

<u>Disease</u>	<u>Area to be Treated per Packet (sq. ft.)</u>	<u>Application Interval/ Timing</u>	<u>Instructions</u>
Dichondra Rust	10,000	14-21 days	Apply when conditions are favorable for disease development.

Establishment of Cool Season Turfgrass

When used in a preventative disease control program, Banner GL applied to cool season grass seedlings or sod will improve the rate of establishment.

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New Seedlings: Apply 1 packet/20,000 sq. ft. at the two to three leaf stage of growth for faster root development and top growth.

Sod: Apply 1 packet/20,000 sq. ft. 2-6 weeks before cutting for increased sod knitting and rate of establishment after resetting.

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**Disease Control in Nurseries (Field) and Landscape Plantings**

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1. USE BANNER GL IN A PREVENTATIVE DISEASE CONTROL PROGRAM. INITIATE APPLICATIONS ACCORDING TO LOCAL RECOMMENDATIONS OR AT FIRST SIGNS OF DISEASE.
2. Apply in enough water to thoroughly cover foliage to the point of runoff.
3. Allow spray to dry before overhead irrigation is applied.
4. Optimum benefit of Banner GL is obtained when used in conjunction with sound disease management practices.

**Note:** Banner GL has been shown to be safe on the species of plants and effective in controlling the diseases listed in the Directions For Use. Other plant species may be sensitive to Banner GL and other diseases may not be controlled. Before using Banner GL on plants or for diseases that are not listed in the Directions For Use, test Banner GL on a small scale basis first. Apply the recommended rates for a particular type of disease, i.e., rust, powdery mildew, etc., and evaluate for phytotoxicity and disease control prior to widespread use. Do not apply Banner GL to African violets, begonias, Boston fern, or geraniums.

Woody Plants

<u>Species</u>	<u>Disease</u>	<u>Recommended Rates and Timing</u>
Crape Myrtle	Powdery Mildew ( <u>E. lagerstroemia</u> )	Apply 1 packet per 130 gals. every 21 days.
Douglas Fir	Needle Rust ( <u>Melampsora occidentalis</u> )	Apply 1 packet per 130 gals. Apply once in May.
Jeffrey Pine	Tip blight ( <u>Sirococcus strobolinus</u> )	Apply 1 packet per 130 gals. Begin applications in mid-late winter (Nov.-Jan.) Apply 3 times at 2-month intervals.
Oaks	Leafspot ( <u>Tubakia dryina</u> )	Apply 1 packet per 130 gals. every 14 days.
Red Tip Photinia	Leafspot ( <u>Fabraea maculata</u> syn. <u>Entomosporium maculatum</u> )	Apply 1 packet per 100-150 gals. every 7-14 days. Reductions of plant height may occur with Banner GL applications, especially on plants 6 inches or smaller.
Shasta Fir	Needle Rust ( <u>Pucciniastrum goeppertianum</u> )	Apply 1 packet per 130 gals. in May-June prior to anticipated infection periods.

Non-Bearing Fruits and Nuts  
(Nurseries and Landscape Plantings)

<u>Species</u>	<u>Disease</u>	<u>Recommended Rates and Timing</u>
Cherry	Powdery Mildew Leafspot ( <u>Coccomyces hiemalis</u> )	Apply 1 packet per 1.5-3.5 acres on a 14-21 day interval. Apply 1 packet per 1.5 acres on a 14-21 day interval.
	Blossom Blight ( <u>Monilinia fructicola</u> )	Apply 1 packet per 1.5-2.25 acres. Apply at 5-10% bloom and again at 70-100% bloom.
Citrus	Greasy Spot ( <u>Mycosphaerella citri</u> )	Apply 1 packet per 100 gals. during June-August.
Peach Plum Nectarine	Blossom Blight ( <u>M. fructicola</u> or <u>M. laxa</u> )	Apply 1 packet per 1.5-2.25 acres. Apply at 5-10% bloom and again at 70-100% bloom.
Pecan	Scab ( <u>Cladocporium</u> ), Powdery Mildew, Downy Spot, Zonate Leafspot, Fungal Leaf Scorch, Brown Spot	Apply 1 packet per 3.75-5 acres beginning at bud break. Apply 3 times on a 14-day interval.

Note: To avoid possible illegal residues, do not apply to cherry, citrus, peach, plum, nectarine, or pecan trees that will bear harvestable fruit within 12 months of application.

Storage and Disposal

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

Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble packets.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instruc-

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tions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Do not reuse outer container. Dispose of empty outer container in a sanitary landfill, or by incineration, or by burning if allowed by state and local authorities. Stay out of smoke from burning containers.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372 day or night.

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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye injury. Do not get in eyes - wear goggles or face shield. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Statement of Practical Treatment

) If in eyes: Hold eyelids open and flush with a steady, gentle stream of water. Get medical attention.

If swallowed: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, large quantities of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

) Notes to Physician: If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

Physical or Chemical Hazards

Do not use or store near heat, open flame, or hot surfaces.

Banner® trademark of CIBA-GEIGY  
U.S. Patent No. 4,079,062

Chipco® 26019 trademark of Rhône-Poulenc, Inc.



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Daconil 2787® trademark of ISK Biotech Corp.

Fore® trademark of Rohm & Haas Co.

Pace®, Pennant®, Sprint®, Subdue® and Triumph® trademarks of CIBA-GEIGY Corporation

Tersan® 1991 trademark of E. I. duPont de Nemours and Co., Inc.

Unite® trademark of Hopkins Chemical Co.

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

)  
6 X 7 oz. Soluble Packets  
Total 42 Ounces Net Weight

*This booklet manufactured using post-consumer, recycled paper and soy-based inks.*

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[GANNONC.LABELB]BANNRGEL - 12/18/92

Booklet Back Panel

BANNER® GL

FUNGICIDE

Broad spectrum and systemic disease control for turf and ornamentals.

Active Ingredient:

Propiconazole: 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2yl]methyl]-1H-1,2,4-

triazole ..... 41.8%

Inert Ingredients: ..... 58.2%

Total: ..... 100.0%

See directions for use in attached booklet.

EPA Reg. No. 100-736

EPA Est. 100-AL-1

Banner® GL trademark of CIBA-GEIGY

U.S. Patent No. 4,079,062

©1992 CIBA-GEIGY Corporation

6 X 7 oz. Soluble Packets

Total 42 Ounces Net Weight.

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Do not get in eyes - wear goggles or face shield. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Statement of Practical Treatment

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water. Get medical attention.

If swallowed: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, large quantities of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

Notes to Physician: If ingested, lavage stomach to avoid aspiration. Give a saline laxative and supportive therapy.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

Physical or Chemical Hazards

Do not use or store near heat, open flame, or hot surfaces. In the event of spill, fire, or other emergency, call 1-800-888-8372 day or night.

Storage

Store in a cool, dry place. Do not store this product under wet conditions. Handle outer packaging carefully to avoid breakage of inner soluble packets.

Chemigation

Do not apply this product through any type of irrigation system.

Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 131L1 072

Product ID: 59890

CIBA-GEIGY

[GANNONC.LABELB]BANNRGEL - 12/18/92

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SOLUBLE PACKET FILM

Banner® GL Fungicide

Contains Propiconazole

EPA Reg. No. 100-736

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KEEP OUT OF REACH OF CHILDREN

WARNING

See additional Precautionary Statements and Directions for Use on outer package.

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Do not handle soluble bag or expose it to moisture, since this may cause rupturing.

CGA 131L2 072

[GANNONC.LABELB]BANNRSPF - 12/18/92