

NOV 19 1998

Dr. Lee Hubbard
Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Dear Dr. Hubbard:

Subject: Banner GL Fungicide
EPA Reg. No. 100-736
Your Submission of October 23, 1998

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you make the following label revision:

Revise the maximum rate in item 10 on page 6 to "37 packets/acre/calendar year". Application of 37 packets/ 1000 sq.ft. would exceed the intended limit specified in your letter and does not agree with the limits included elsewhere on the label.

Submit one (1) copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,



Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

Enclosure

7505C:C.Grable:cg:11/12/98

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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 Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

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

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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) 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 24 hours.

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
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton
- Shoes plus socks
- Protective eyewear

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NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

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

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

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 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 more than 37 packets of Banner GL/acre/year.

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

Mixing Procedures

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

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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 $1/2$ - $2/3$ 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® 350, Subdue 2E, Tersan® 1991, and Triumph® 4E. Do not mix Banner GL and Tersan 1991 in a fertilizer solution. Contact your dealer or a Ncvartis sales representative for additional information on compatibility of other tank mix partners.

Add $1/2$ - $2/3$ 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 packets, 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.
10. Do not apply more than 37 packets/1,000 ft.²/calendar year.

CAUTION: Bermudagrass can be sensitive to Banner GL. Do not apply more than 1 packet/5,445 sq. ft. every 30 days on any variety of bermudagrass. In FL, do not apply Banner GL to bermudagrass golf course greens when temperatures exceed 90°F.

NOTES: (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

Disease	Area to be Treated per Packet (sq. ft.)	Application Interval/ Timing	Instructions
Dollar Spot	43,560 (1 acre)	7-14 days	Apply when conditions are favorable for disease development. If the 43,560 sq. ft. (1 acre) rate is used, tank mix with the lowest label rate of another EPA-registered fungicide having a different mode of action. If using the 10,890-21,780 sq. ft. (0.25-0.5 acre) 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.
	10,890-21,780 (0.25-0.50 acre)	14-28 days	

Turfgrass - Specific Diseases, Rates, and Application Timing

Disease	Area to be Treated per Packet (sq. ft.)	Application Interval/ Timing	Instructions
Brown Patch	10,890-21,780 (0.25-0.50 acre)	14-21 days	Begin applications in May or June before disease is present. Tank mix 1 packet Banner GL per 10,890-21,780 ft. ² (0.25-0.5 acre) with a registered contact fungicide at the labeled rate. Under conditions of high temperature and high humidity, use the higher rates and shorter intervals.
Powdery Mildew, Rust, Anthracnose	10,890-21,780 (0.25-0.50 acre)	14-28 days	Apply when conditions are favorable for disease development.
Red Thread	10,890 (0.25 acre)	14-21 days	Apply when conditions are favorable for disease development.

Turfgrass - Specific Diseases, Rates, and Application Timing

Disease	Area to be Treated per Packet (sq. ft.)	Application Interval/ Timing	Instructions
Stripe Smut	10,890-21,780 (0.25-0.50 acre)	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. Augustine-grass sod production)	10,890-21,780 (0.25-0.50 acre)	14-21 days	Apply when conditions are favorable for disease development. Tank mix with a registered contact fungicide at label rate.
Melting Out, Leaf Spot	10,890-21,780 (0.25-0.50 acre)	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	5,445 (0.125 acre) 10,890 (0.25 acre)	28 days 14 days	Apply Banner GL at monthly intervals beginning in April. Make 2-3 applications depending on local recommendations. For optimum control, tank mix with contact fungicide at label rates.
Spring Dead Spot (California Only)	5,445 (0.125 acre)	30 days	Apply Banner GL at monthly intervals beginning in August. Make 3 applications.

Turfgrass - Specific Diseases, Rates, and Application Timing

Disease	Area to be Treated per Packet (sq. ft.)	Application Interval/ Timing	Instructions
Snowmold Gray - <i>Typhula</i> spp. Pink - <i>Fusarium nivale</i>	5,445 (0.125 acre)	Late Fall	Apply one application in the late fall before snow cover. Do not apply on top of snow.
Zoysia patch, large patch of zoysia	5,445 (0.125 acre)	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.

Dichondra - Specific Disease, Rate, and Application Timing

Disease	Area to be Treated per Packet (sq. ft.)	Application Interval/ Timing	Instructions
Dichondra Rust	10,890 (0.25 acre)	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.

New Seedlings: Apply 1 packet/21,780 sq. ft. (0.5 acre) at the 2 to 3-leaf stage of growth for faster root development and top growth.

Sod: Apply 1 packet/21,730 sq. ft. (0.5 acre) 2-6 weeks before cutting for increased sod knitting and rate of establishment after resetting.

DISEASE CONTROL IN NURSERIES (FIELD) AND LANDSCAPE PLANTINGS

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.
5. You can apply up to 4 packets of Banner GL/A/crop/calendar year.

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

Species	Disease	Recommended Rates and Timing
Crape Myrtle	Powdery Mildew (<i>E. lagerstroemia</i>)	Apply 1 packet/ 135 gals. every 21 days.
Douglas Fir	Needle Rust (<i>Melampsora occidentalis</i>)	Apply 1 packet/ 135 gals. Apply once in May.
Jeffrey Pine	Tip blight (<i>Sirococcus strobolinus</i>)	Apply 1 packet/ 135 gals. Begin applications in mid-late winter (Nov.-Jan.). Apply 3 times at 2-month intervals.
Oaks	Leafspot (<i>Tubakia dryina</i>)	Apply 1 packet/ 135 gals. every 14 days.
Red Tip Photinia	Leafspot (<i>Fabraea maculata</i> syn. <i>Entomosporium maculatum</i>)	Apply 1 packet/ 110-180 gals. every 7-14 days. Reductions of plant height may occur with Banner GL appli- cations, especially on plants 6 inches or smaller.
Shasta Fir	Needle Rust (<i>Pucciniastrum goeppertianum</i>)	Apply 1 packet/135 gals. in May-June, prior to anticipated infection periods.

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

Species	Disease	Recommended Rates and Timing
Cherry	Powdery Mildew Leafspot (<i>Coccomyces hiemalis</i>)	Apply 1 packet/1.75-3.75 acres on a 14 to 21-day interval. Apply 1 packet/1.5 acres on a 14 to 21-day interval.
	Blossom Blight (<i>Monilinia fructicola</i>)	Apply 1 packet/1.75-2.5 acres. Apply at 5-10% bloom and again at 70-100% bloom.
Citrus	Greasy Spot (<i>Mycosphaerella citri</i>)	Apply 1 packet/100 gals. during June-August.
Peach, Plum, Nectarine	Blossom Blight (<i>M. fructicola</i> or <i>M. laxa</i>)	Apply 1 packet/1.75-2.5 acres. Apply at 5-10% bloom and again at 70-100% bloom.
Pecan	Scab (<i>Cladosporium</i>), Powdery Mildew, Downy Spot, Zonate Leafspot, Fungal Leaf Scorch, Brown Spot	Apply 1 packet/1.25-1.5 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 below 40°F. 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 instructions, 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.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial, but temporary eye injury. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist.

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.

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

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems or enclosed cabs 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 gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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.

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Triumph® trademarks of Novartis
U.S. Patent No. 4,079,062

Chipco® 26019 trademark of Rhône-Poulenc Ag Company

Daconil 2787® trademark of ISK Biotech Corporation

Fore® trademark of Rohm and Haas Company

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

Unite® trademark of HACO, Inc.

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Novartis Crop Protection, Inc.
Turf and Ornamental Products
Greensboro, North Carolina 27419

6 X 7.2 oz. Soluble Packets
U.S. Standard Measure

NCP 736A-M2A

This booklet manufactured using post-consumer, recycled paper.

[QUARK\BANNER GL\N-BANNER GL-MSTR-BKLT] - 10/22/98

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Booklet Back Panel

Banner® GL

Accu-Pak®

FUNGICIDE

Broad spectrum and systemic disease control for turf and ornamentals

Active Ingredient: Propiconazole

CAS No. 60207-90-141.8%

Inert Ingredients:58.2%

Total:100.0%

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-736

EPA Est. 5905-GA-01^H

EPA Est. 100-NC-2^G

(Superscript is first letter of lot number on container)

6 X 7.2 oz. Soluble Packets
U.S. Standard Measure

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes substantial, but temporary eye injury. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with skin or clothing. Avoid breathing vapors or spray mist.

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.

Note 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 a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Storage

Store in a cool, dry place. Do not store below 40°F. 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.

Accu-Pak® and Banner® trademarks of Ciba-Geigy Corporation
U.S. Patent No. 4,079,062

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Novartis Crop Protection, Inc.
Turf and Ornamental Products
Greensboro, North Carolina 27419

NCP 736A-M2A

Product ID: 59890

[QUARK\BANNER GL\N-BANNER GL-MSTR-BKLT] - ccg - 10/22/98

9/3/91

New label for Banner GL

12/18/92

Removed prohibition against use on home lawns. Added directions for use for zoysia patch, added tank mixture/rotation information to dollar spot directions for use.

5/20/93

EPA approved labeling submitted on 12/23/92 (12/18/92 changes).

7/93

WPS changes.

1/95

Adding restriction on storage to $\geq 40^{\circ}\text{F}$; notify EPA of this change using typed printed labeling.

10/98

Rate of application; maximum rate of 37 packets of Banner GL/A/yr.