

2217-802

8-27-1996

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

EPA Reg. Number:
2217-802

Date of Issuance:
AUG 27 1996

Term of Issuance:
Conditional

Name of Pesticide Product:
EH 1135 PGR

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

PBI/Gordon Corporation
1217 West 12th Street
P.O. Box 014090
Kansas City, Missouri 64101-0090

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 conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) 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; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
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. 2217-802.
3. Submit one copy of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

Signature of Approving Official:

/S/

Date:

AUG 27 1996

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A stamped copy of the label is enclosed for your records.
If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Sincerely yours,

Cynthia L. Giles-Parker
Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Attachments: 1) Product label stamped "Accepted"
2) A-79 Enclosure

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Official Name:

EH 1135 PGR

Brand Name:

ACTIVE INGREDIENTS:

Diethanolamine salt of mefluidide*(N-[2,4-dimethyl-5-[[[(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide)	21.45%
Ammonium salt of imazethapyr [(±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1-H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid].....	4.09%
Ammonium salt of imazapyr [2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1-H-imidazol-2-yl]-3-pyridinecarboxylic acid]].....	0.15%
INERT INGREDIENTS	<u>74.31%</u>
TOTAL	100.00%

This product contains:

- 1.46 pounds acid equivalent of mefluidide per gallon or 16.02%.
- 0.35 pounds acid equivalent of imazethapyr per gallon or 3.86%.
- 0.01 pounds acid equivalent of imazapyr per gallon or 0.14%.

KEEP OUT OF REACH OF CHILDREN

ACCEPTED
with COMMENTS
In EPA Letter Dated
AUG 27 1996

CAUTION

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.**
3214-002

See other panels for Precautionary Statements and Statement of Practical Treatment

NET CONTENTS 1, 2.5, 5.0, 30, and 55 GALLONS

APXXXXXX
EPA File Symbol 2217-INE
EPA EST. NO. 2217-KS-X
Mfd. BY PBI/GORDON CORPORATION
KANSAS CITY, MISSOURI 64101

EPA Reg. No. 2217-XXX



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STOP! READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Applicator's and other handlers must wear long sleeved shirt and long pants, shoes plus socks, and waterproof gloves. After using this product, thoroughly wash hands and exposed skin with soap and water. Remove contaminated clothing and launder before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger if the patient is conscious. Get medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air.

IF ON SKIN: Wash thoroughly with soap and water. Get medical attention if irritation persists.

Environmental Hazards: Do not apply directly to water, or 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 washwaters. Do not allow spray to drift onto non-target crops or vegetation.

DIRECTIONS FOR USE

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

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

STORAGE AND DISPOSAL

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

STORAGE: Keep from freezing.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: For Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EH1135 PGR can be incorporated into highway vegetation management programs to eliminate seedhead production and to reduce the mowing requirements. EH1135 PGR may be useful in the following noncropland areas:

- Highway rights-of-way (principal, interstate, state, and county highways), interchange ramps, waysides, service areas, and unpaved roads
- Municipal, state, and federal lands such as airports, military installations, schools/universities, libraries, and hospitals
- Commercial/Industrial areas including industrial parks, tank farms, plant sites, storage areas, fencerows, and utility rights-of-way.



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EH1135 PGR may be used in established turfgrass maintained under high levels of cultural management. Examples of these sites include improved sections of industrial grounds, athletic fields, cemeteries, parks, golf course roughs, and institutional grounds.

EH1135 PGR inhibits the growth of bahiagrass, tall fescue, smooth bromegrass, orchardgrass, and Kentucky bluegrass. All established stands of these grasses should be at least one year old.

- SPRAY EQUIPMENT AND MIXING INSTRUCTIONS -

SPRAY EQUIPMENT:

Use conventional power spray equipment with bypass or mechanical agitation and fitted with a spray boom, off-center nozzles, or a hand gun.

It is essential that the spray equipment is properly adjusted and calibrated to assure proper dosage and uniform spray coverage. Follow the spray equipment manufacturer's directions for cleaning, adjusting pressure and selecting appropriate nozzles.

SPRAY VOLUMES:

Spray volumes of 15 to 150 gallons per acre are recommended. Uniform application is essential. Avoid spray overlaps that will increase the dosage above those recommended.

SURFACTANTS AND SPRAY COLORANTS:

The use of a nonionic surfactant is recommended to increase the extent and consistency of the growth regulation. The suggested surfactant rate is 0.25 to 0.50% vol/vol or 1 to 2 quarts per 100 gallons of spray solution. Temporary, slight discoloration of the turf may increase with the use of a surfactant.

The use of Gordon's Spray Colorant is recommended to allow the applicator to make uniform applications.

SPRAY PREPARATION FOR EH1135 PGR ALONE:

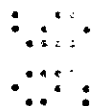
1. Pour the required amount of EH1135 PGR into the spray tank containing approximately 1/2 the required amount of water.
2. When thoroughly mixed, add the measured amount of nonionic surfactant.
3. Add Gordon's Professional Spray Colorant to the spray tank to ensure the uniformity of the application. Refer to instructions of this colorant for the proper concentration.
4. Fill the tank as required with water and spray as recommended.

SPRAY PREPARATION FOR EH1135 PGR TANK MIXTURES:

EH1135 PGR may be applied in combination with one or more of the specified herbicides or plant growth regulators. These tank mixtures must be used according to the most restrictive label limitations and precautions. No label dosage rate should be exceeded. Follow the labeling of each companion product for precautionary statements, directions for use, dosage rates, and application schedules. Tank mixture recommendations are for use only in states where the companion products and application site are registered.

Follow these guidelines and refer to the labeling of the companion product for further instructions.

1. Add 1/2 to 2/3 of the required amount of water into the spray tank.
2. Add the appropriate amount of the companion product (dispersible granules or dimethylamine salt formulations) into the spray tank with agitation.
3. Pour the appropriate amount of EH1135 PGR into the spray tank.
4. Continue agitation while adding the remainder of water and add the measured amounts of nonionic surfactant and spray colorant.
5. Continue agitation throughout the spraying operation.



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SEEDHEAD SUPPRESSION

The application window or timing is critical for the optimum seedhead control.

Generally the application window for the best results will range from 2 to 3 weeks for the cool season grasses. The beginning of the application window for the cool season grasses occurs in the spring after full greenup with rapid vertical growth. The end of the application window occurs approximately 2 weeks prior to the seedhead appearance or when the seedhead can be felt at the base of the stem. Applications of EH1135 PGR after the optimum window will result in reduced seedhead suppression.

EH1135 PGR must be applied prior to the seedhead appearance at the stem apex. Application of EH1135 PGR after the seedhead emergence will suppress only the later forming seedheads.

Bahiagrass seedheads are produced from late spring until early fall. An application of EH1135 PGR in the spring will provide seedhead inhibition for 6 to 10 weeks and will suppress the vegetative growth for 4 to 5 weeks. Apply EH1135 PGR after full greenup of the bahiagrass with at least two inches of vertical growth (April - May). Applications of EH1135 PGR must be made prior to seedhead (boot) emergence.

EH1135 PGR should be used according to the recommendations on this label. Refer to Table 1 for the application rate recommended for established turfgrass in noncropland sites.

VEGETATIVE GROWTH SUPPRESSION

EH1135 PGR will provide growth inhibition for cool season grasses 6 to 8 weeks under favorable growing conditions. Apply EH1135 PGR with a nonionic surfactant after full greenup of turfgrass in the spring. At the time of treatment, turf should have developed the desired appearance, the desired height, and sufficient leaf area for uptake.

Apply 12 to 16 fluid ounces of EH1135 PGR per acre with a nonionic surfactant to actively growing turf for growth suppression up to 8 weeks. Refer to Table 1 for the recommended rates for tank mixtures applied to low maintenance turf. Refer to Table 2 for the recommendations appropriate for turfgrass with intensive management care.

EH1135 PGR will suppress the vegetative height of bahiagrass for 4 to 5 weeks. Tank mixtures of EH1135 PGR and Oust® Herbicide Dispersible Granules will extend the period of growth suppression up to 8 to 10 weeks. Refer to Table 1 for the rate recommendations for bahiagrass.

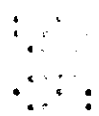


Table 1. Application Rate Recommendations for EH1135 PGR and tank mixtures for established turfgrasses in noncropland sites.

Product Name	Amount of Product		Nonionic Surfactant, % vol/vol	Comments
	fl. oz./acre	ounces/acre		
A. BAHIAGRASS				
1. EH1135 PGR	28 - 38	—	0.25	<p>For growth suppression, apply after grasses are at 100 percent greenup with at least two inches of vertical growth. Use the higher dosage rate for more extended periods of foliar growth suppression. For seedhead suppression, apply prior to seedhead (boot) emergence.</p> <p>Do not use this product with Telar[®] Herbicide Dispersible Granules on bahiagrass turf because severe injury will occur.</p> <p>EH1135 PGR may be used prior to or sequential to all currently registered herbicides EXCEPT there must be a three month interval of grass growth between applications of EH1135 PGR and sulfonylurea and imidazolinone herbicide applications.</p>
2. EH1135 PGR plus Oust [®] Herbicide Dispersible Granules	24 - 26 —	— 1/8 - 1/4	0.25	<p>For growth suppression, apply after grasses are at 100 percent greenup with at least two inches of vertical growth. Use the higher dosage rate for more extended periods of foliar growth suppression.</p> <p>For seedhead suppression, apply prior to seedhead (boot) emergence.</p> <p>EH1135 PGR may be used prior to or sequential to all currently registered herbicides EXCEPT there must be a three month interval of grass growth between applications of EH1135 PGR and sulfonylurea and imidazolinone herbicide applications.</p>
B. TALL FESCUE, KENTUCKY BLUEGRASS, and MIXED STANDS OF FESCUE/BUEGRASS.				
1. EH1135 PGR	12 - 16	—	0.25	<p>Apply after grasses are at 100 percent greenup with at least two inches of vertical growth. On finer turfgrass areas where more uniform quality is desired, apply after two mowings. For seedhead suppression, apply prior to the seed stalk elongation and seedhead emergence. EH1135 PGR may be used prior to or sequential to all currently registered herbicides EXCEPT there must be a three month interval of grass growth between applications of EH1135 PGR and sulfonylurea and imidazolinone herbicide applications.</p>
2. EH1135 PGR plus Telar [®] Herbicide Dispersible Granules	6 - 8	— 1/8	0.25	<p>Do not apply Telar[®] Herbicide Dispersible Granules plus EH1135 PGR to turf that is under stress from drought, insects, disease, cold temperatures or poor fertility, as injury may result. Do not apply to turf less than 1 year old. Do not exceed 1/2 ounce Telar[®] Herbicide Dispersible Granules per acre within a 12 month period.</p>
3. EH1135 PGR plus Hi-Dep [®] Broadleaf Herbicide, 3.8# a.e./gal	12 - 16 64	— —	0.25	<p>Do not apply this tank mixture to turf that is under stress from drought, insects, disease, cold temperatures, or poor fertility, as injury may result. Do not apply to turf less than 1 year old.</p>
C. MIXED STANDS OF FESCUE/BUEGRASS, SMOOTH BROMEGRASS, AND ORCHARDGRASS.				
1. EH1135 PGR plus Arsenal [®] Herbicide, 2.0# a.e./gal.	12 - 16 1.5	— —	0.25	<p>Differential responses of mixed turf species may occur with EH1135 PGR and may result in a non-uniform appearance. Determine the predominant species in the mixed turf and follow the application schedule/window for the species most commonly found.</p>



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Table 2. Application Rate Recommendations for EH1135 PGR for established Kentucky bluegrass and fescues that are maintained with intensive cultural practices.

Product Name	Amount of Product		Nonionic Surfactant, % vol/vol	Comments
	fl.oz./1000 sq.ft.	fl. oz./acre		
A. KENTUCKY BLUEGRASS AND FESCUES				
1. EH1135 PGR	0.05 - 0.10	2.2 - 4.35	—	<p>This application rate will provide vegetative growth suppression for up to 5 weeks.</p> <p>Apply after grasses are at 100 percent greenup with at least two inches of vertical growth. On finer turfgrass areas where more uniform quality is desired, apply after two mowings. For seedhead suppression, apply prior to the seed stalk elongation.</p> <p>EH1135 PGR may be used prior to or sequential to all currently registered herbicides EXCEPT there must be a three month interval of grass growth between applications of EH1135 PGR and sulfonylurea and imidazolinone herbicide applications.</p>

IRRIGATION AND RAINFALL

Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application.

STRESSES

Applications of EH1135 PGR to turfgrass that is stressed because of high air temperatures, drought, excessive soil water, diseases, or insects may cause temporary discoloration. Management practices to promote the health and vigor of the turfgrass should be continued on the treated areas.

- PRECAUTIONS AND LIMITATIONS -

1. DO NOT apply this product through any irrigation system.
2. Turf treated with EH1135 PGR may appear less dense and temporarily discolored when compared with untreated, actively growing turf
3. DO NOT allow animals to graze on treated areas.
4. DO NOT apply to any body of water such as lakes, streams, rivers, canals, ponds, reservoirs, or bays. Also, do not apply to areas where water is present on the soil surface such as swamps, bogs, potholes, or marshes. However, it is allowable to treat seasonally dry swamps, bogs, potholes, or marshes, berms of ditches, and road shoulders.
5. DO NOT apply when wind velocity is greater than 10 mph.
6. EH1135 PGR may be tank mixed with methylarsonate herbicides such as MSMA or DSMA. DO NOT tank mix with other postemergence grass herbicides labeled for use in turfgrass
7. DO NOT use on newly established stands less than 1 year old.
8. DO NOT reseed before three months following an application of EH1135 PG
9. DO NOT use on ornamental plants as injury may result.

LIMITED WARRANTY AND DISCLAIMER.

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

HI-DEP® is a registered trademark of PBI/GORDON CORPORATION.
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