


Reg # 2217-696

PM-25

Notification 1076

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 192047
	Application for Pesticide:		

Section I

1. Company/Product Number 2217-696	2. EPA Product Manager R. Taylor	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Betamec-4 Pre-Emergence Grass Killer	PM# (PM 25)	
5. Name and Address of Applicant (Include ZIP Code) PBI/Gordon Corporation PO Box 4090 1217 West 12th Street Kansas City, MO 64101 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION:

Revision of the wetlands warning statement within the Environmental Hazards section according to definition stated in Pesticide Regulation (PR) Notice 93-3, "Labeling Statement Prohibiting Application to Water", March 9, 1993. This is to certify that this notification meets every requirement of PR Notice 88-6. Three copies of the revised labeling are enclosed.


NOTIFICATION LABEL NOT REVIEWED PER PR NOTICE 88-6

DATE: **7/12/93**

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
	If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted.					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other (_____)	

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name James A. Ambruster, Ph.D	Title Mgr. Regulatory Services	Telephone No. (Include Area Code) (816)421-4070
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Mgr. Regulatory Services	
4. Typed Name James A. Ambruster, Ph.D.	5. Date May 20, 1993	

BEST AVAILABLE COPY

276

BETAMEC-4 PRE-EMERGENCE GRASS KILLER

Contains BETASAN®

Selective Herbicide for Pre-Emergence Control of CRABGRASS and ANNUAL BLUEGRASS in TURF, ORNAMENTALS, and GROUND COVERS.

ACTIVE INGREDIENT:

Bensulide: S-(O,O-Diisopropyl phosphorodithioate) ester of
N-(2-mercaptoethyl) benzenesulfonamide.....46.0%

INERT INGREDIENTS.....54.0%

TOTAL 100.0%

This Product Contains 4 pounds active ingredient per gallon.

BETASAN® is a registered trademark of ICI Americas, Inc.

**NOTIFICATION
LABEL NOT REVIEWED
PER PR NOTICE 88-6**

KEEP OUT OF REACH OF CHILDREN

DATE. 7/12/93

CAUTION

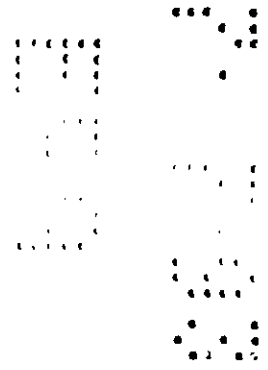
See side panels for additional precautionary statements and Statement of Practical Treatment.

NET CONTENTS 2 1/2 U.S. GALLONS (9.46 liters)

845 AP052093

EPA REG NO 2217-696
EPA EST NO 2217-KS-1

MFD. BY PBI/GORDON CORPORATION
KANSAS CITY, MISSOURI 64101



396

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid breathing spray mist. Causes moderate eye irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Avoid contamination of food, feed, or water supplies.

Statement of Practical Treatment

Call a physician immediately! If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately initiate the recommended procedures described below and simultaneously contact a physician, the nearest hospital or Poison Control Center. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms and follow the advice given.

NOTE: Be sure to advise the person contacted that the active ingredient in this compound is a cholinesterase inhibitor and follow the advice given.

NOTE TO PHYSICIAN: Exposure to the active ingredient may cause cholinesterase inhibition. Atropine by injection is antidotal. 2-Propopam Chloride is also antidotal when administered early and in conjunction with atropine.

IF SWALLOWED: DO NOT induce vomiting. Immediately call a physician or Poison Control Center. Give large quantities of water and get medical attention. If vomiting occurs, give fluids again. Never give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen, preferably with a physician's advice.

IF ON SKIN: Flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Wash clothing before reuse.

IF IN EYES: Hold eyelids apart and flush eyes with large amounts of running water for at least 15 minutes. Get medical attention immediately.

Environmental Hazards: This product is toxic to fish. For terrestrial uses, 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 washwaters. Do not apply when weather conditions favor drift from area treated.

Physical Hazards: Combustible. Do not use, store, pour or spill near heat or open flame. Keep container closed when not in use.

DIRECTIONS FOR USE

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

STORAGE & DISPOSAL

STORAGE: Protect from temperatures below 42 degrees F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use. Do not store near sources of heat or open flame. Store in original container in locked storage area. Keep pesticides separate during storage to prevent cross-contamination with other pesticides or fertilizers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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.

4 76

GENERAL USE PRECAUTIONS: Read all directions before using. Mix well before diluting with water. BETAMEC 4 should be used only for recommended uses and at recommended rates. Clean up spills on walks or patios by covering with dry soil or absorptive material. Bury sweepings and hose area. Do not allow children or pets on treated lawns until grass is completely dry. BETAMEC-4 is recommended for use on mineral soils only. Do not apply peat moss to lawn, ground covers, or established ornamentals before treating with BETAMEC-4. Do not use in greenhouses. Do not apply this product through any type of irrigation system.

GENERAL INFORMATION: BETAMEC-4 is recommended for use on home lawns, parks and golf courses, on ornamental plants and on ground covers for control of crabgrass, annual bluegrass and other annual weeds listed.

Application of BETAMEC-4 must precede emergence of weeds from the soil. Crabgrass will emerge from the soil from 4 to 8 weeks before it is visible above lawn sod. If weeds are visible above the soil it is too late to apply BETAMEC-4.

Remove leaves, dead tall grass and other debris before applying BETAMEC-4 to turf areas. Any weeds present around ornamentals must be removed or worked into the soil before applying BETAMEC-4

- WEEDS CONTROLLED -

- | | | |
|----------------------|-----------------|------------------|
| Annual Bluegrass | Fall Panicum | Lambsquarters |
| Barnyardgrass | Foxtails | Redroot Pigweed |
| (Watergrass) | Goosegrass | Shepherdspurse |
| Deaconettle (Henbit) | Hairy Crabgrass | Smooth Crabgrass |

TIMING OF APPLICATION: The most effective program for control of crabgrass, goosegrass, annual bluegrass and other annual weeds is one specifically designed for local conditions. Two or more applications per year may be necessary, using the recommended rates give below for a particular weed problem. For additional information regarding timing and rate of application, consult weed specialists of the State Agricultural Extension Service or the State Agricultural Experiment Station.

GRASS LAWNS: BETAMEC-4 should be applied only to well established grass lawns. It can be used on the following established turf grasses.

- | | |
|--------------------------|--------------------|
| Bahia | Pensacola Bahia |
| Bentgrass spp. | Perennial Ryegrass |
| Perennial Bluegrass spp. | Poa trivialis |
| Bermudagrass spp. | St. Augustine |
| Centipede | Red Top |
| Fescue spp. | Zoysia |

DICHONDRA LAWNS: BETAMEC-4 can be applied to dichondra lawns at the time of seeding or any time thereafter.

ORNAMENTALS AND GROUND COVERS: BETAMEC-4 should be applied only to the following well established ornamentals and ground covers:

Herbaceous Plants	Ground Covers	Deciduous Trees & Shrubs & Evergreens	Bulbs
Alyssum	Adjuga	Abelia	Daffodil
Aster	Campanula	Azalea	Dahlia
Bachelor's Button	Gazania	Azara	Freesia
Calendula	Hypericum	Boxwood	Gladiolus
Candy Tuft	Ice Plant	Daphne	Narcissus
Coral Bell	Ivy	Holly	Ranunculus
Daisy	Pachysandra	Juniper	Tulip
Marigold	Periwinkle	Monterey Cypress	
Pansy	Sedum	Monterey Pine	
Primrose	Wild Strawberry	Myrtle	
Stock		Privet	
Sweet Pea		Pyracantha	
Wallflower		Sandankwa	
		Tobira	
		Xylosma	

For control of crabgrass, apply BETAMEC-4 at the recommended rate (see RATES OF APPLICATION) any time from fall (September or October) through early spring for spring and summer control. With a late winter or an early spring application, the application must be made prior to crabgrass emergence (see GENERAL INFORMATION).

For control of annual bluegrass and other annual weeds, apply BETAMEC-4 at the recommended rate (see RATES OF APPLICATION) before weeds emerge from the soil.

Where germination of crabgrass, annual bluegrass and other annual weeds extends into the late summer and early fall, a second application of BETAMEC-4 at the recommended rates should be made 4 to 5 months after the initial application.

BETAMEC-4 should be applied with spray equipment that will provide uniform application such as a knapsack sprayer hose proportioner, or pressure sprayer.

RATES OF APPLICATION: Apply at a maximum of 6-1/4 gallons (50 pints) of BETAMEC-4 per acre (18 fluid ounces per 1,000 square feet) per year in two or more applications depending on the weed species and degree of infestation.

If weed specialist are unavailable to provide specific local recommendations, follow these directions:

CRABGRASS ONLY: Apply 1-7/8 gallons (15 pints) to 2.5 gallons (20 pints) of BETAMEC-4 in 80 to 100 gallons of water uniformly on one acre (5.6 to 7.3 fluid ounces per 1,000 square feet).

ANNUAL BLUEGRASS AND OTHER ANNUAL WEEDS: Apply 3-1/8 gallons of BETAMEC-4 in 80 to 100 gallons of water uniformly on one acre (9.4 fluid ounces per 1,000 square feet).

When a weed program involves two to three applications of BETAMEC-4 for crabgrass, goosegrass and bluegrass, the rate of application for goosegrass and annual bluegrass may be reduced to 1 7/8 gallons (15 pints) to 2.5 gallons (20 pints) per acre (5.6 to 7.3 fluid ounces per 1,000 square feet), using the higher rate for heavier infestations.

RESEEDING: Any material that provides effective control of annual grasses may effect new lawn grass seedlings which germinate after treatment. Proper fertilization and watering will encourage the existing turf grass to fill in the thin or bare spots formerly occupied by crabgrass.

696

The following procedures are suggested in order to minimize any stunting of turf grasses which may occur when reseeding into BETAMEC-4 treated areas:

1. Do not reseed within 4 months after application.
2. Renovate the area to be reseeded by raking thoroughly to scarify the soil surface. Where practical, mix peat in with the soil to provide an optimum seed bed.
3. When turf diseases or physiological disorders necessitate reseeding sooner than 4 months after BETAMEC-4 application, apply powdered activated charcoal prior to reseeding to deactivate the BETAMEC-4.
4. Apply the activated charcoal at a rate of 7 pounds in 14 gallons of water per 1,000 square feet (300 pounds in 600 gallons of water per acre).
5. Following application, irrigate the turf with sufficient water to wash the charcoal into the soil.
6. Reseed no sooner than 7 days after applying the charcoal.

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.

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