

(A)	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460 <b>Application for Pesticide:</b>	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  <h1 style="margin: 0;">195723</h1>
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**Section I**

1. Company/Product Number <b>2217-709</b>	2. EPA Product Manager <b>Joanne Miller</b>	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Quadmec Turf Herbicide</b>	PM# <b>(PM 23)</b>	
5. Name and Address of Applicant (Include ZIP Code) <b>PBI/Gordon Corporation</b> <b>PO Box 14090</b> <b>1217 West 12th Street</b> <b>Kansas City, MO 64101</b> <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"/> Resubmission in response to Agency letter dated _____  <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____  <input type="checkbox"/> "Me Too" Application.  <input type="checkbox"/> Other - explain below.
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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**

**Section III**

DATE: 7/12/93

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 <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
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 <b>James A. Armbruster, Ph.D.</b>	Title <b>Mgr. Regulatory Services</b>	Telephone No. (Include Area Code) <b>(815)421-4070</b>
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, both under applicable law.		6. Date Application Received (Stamped)
Signature 	3. Title <b>Mgr. Regulatory Services</b>	
4. Typed Name <b>James A. Armbruster, Ph.D.</b>	5. Date <b>May 20, 1993</b>	

# QUADMEC® TURF HERBICIDE

## POSTEMERGENT GRASS & BROADLEAF HERBICIDE

For selective control of grass and broadleaf weeds in Bermudagrass, Bluegrass, Tall Fescue, Turf - Type Tall Fescues, and Zoysiagrass Turf.

One gallon covers up to one acre.

KEEP FROM FREEZING - SHAKE WELL BEFORE USING

### ACTIVE INGREDIENTS:

* Monosodium acid methanearsonate.....	18.00%
** Dimethylamine Salt of 2,4-Dichlorophenoxyacetic acid.....	5.83%
*** Dimethylamine Salt of 2-(2-methyl-4-chlorophenoxy) propionic acid.....	5.86%
**** Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisicacid) .....	1.46%
INERT INGREDIENTS.....	<u>68.85%</u>
	TOTAL 100.00%

### THIS PRODUCT CONTAINS:

- 1.80 lbs. monosodium methanearsonate per gallon or 18.00%.
- Total Arsenic (as elemental) all in water soluble form 8.33%
- 0.48 lbs. 2,4-dichlorophenoxyacetic acid equivalent per gallon or 4.84%
- 0.48 lbs. 2-(2-methyl-4-chlorophenoxy) propionic acid equivalent per gallon or 4.84%
- 0.12 lbs. 3,6-dichloro-o-anisic acid equivalent per gallon or 1.21%

Isomer Specific by AOAC Method.

QUADMEC® and TRIMEC® is a registered trademark of PBI/Gordon Corporation.

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

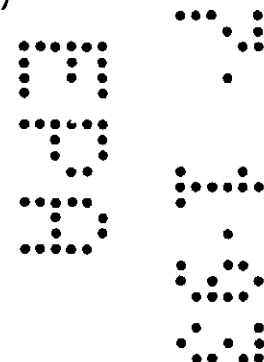
See side panels for additional Precautionary Statements and Statement of Practical Treatment.

NET CONTENTS ONE GALLON (3.785 LITERS)

700/ AP052093

EPA REG NO 2217-709  
EPA EST NO 2217-KS-1

Mfd by PBI/GORDON CORPORATION  
KANSAS CITY, MISSOURI 64101



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

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS & DOMESTIC ANIMALS:**

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear long pants, long-sleeved shirt, shoes and gloves when mixing, loading or applying this product. Wear face shield or goggles when mixing, loading or applying this product. Harmful if swallowed. Harmful if absorbed through skin. See protective clothing statement in Directions for Use.

When mixing, loading, or applying this product, wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more: A mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

**Statement of Practical Treatment**

**IF IN EYES:** Flush with plenty of water and get medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.

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

**ENVIRONMENTAL HAZARDS:** This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. 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. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from area treated. Do not contaminate waters used for domestic consumption, or by wildlife or aquatic life, or for irrigation purposes.

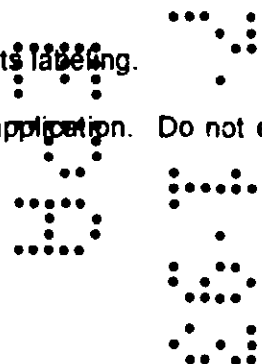
Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

**DIRECTIONS FOR USE**

**FOR USE ON RESIDENTIAL AND OTHER TURF SITES EXCLUDING SOD FARMS.**

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

Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried or dusts has settled.



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**STORAGE & DISPOSAL**

**STORAGE:** Store in original container in a locked storage area. Keep from freezing.

**PRODUCT DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use 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.

**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.

- GENERAL INFORMATION -

Refer to partial list of weeds controlled by QUADMEC TURF HERBICIDE. This product controls a wide variety of problem weed species including crabgrass, dallisgrass, nutsedge, spurge, dandelion and oxalis.

**THE FOLLOWING PROTECTIVE CLOTHING REQUIREMENTS MUST BE FOLLOWED.**

Wear protective clothing when handling or applying this product including long pants, long-sleeved shirt, and impermeable gloves and boots. Mixer-loaders should include an apron and full-face shield when handling or mixing concentrate. Spray rig applicator should wear a mask or respirator approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health.

- APPLICATION INFORMATION AND USE PRECAUTIONS -

Do not apply this product through any type of irrigation system. Avoid drift or spray mist onto vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Do not pour spray solutions near these plants. Do not use a hose-end sprayer.

Coarse sprays are less likely to wind-drift. Avoid fine mists. Do not spray roots of trees and ornamentals. Do not exceed specified dosages for any area, be particularly careful within the dripline of trees or other ornamental species.

Do not spray while grass is emerging from dormancy. Do not apply to newly seeded lawns until after the third mowing. Seed can be sown 3 to 4 weeks after application.

Do not use on St. Augustinegrass, centipedegrass, carpetgrass, red fescues, dichondra, nor on lawns or turf where desirable clovers are present.

Weed control is best achieved when temperatures are above 70°F. However, DO NOT apply this product to Kentucky bluegrass, tall fescue, or turf-type tall fescues when air temperatures exceed 80°F nor when drought conditions exist. DO NOT apply this product to bermudagrass or zoysiagrass when air temperatures exceed 90°F nor when drought conditions exist. Be sure soil is moist and lawn healthy before application. Temporary discoloration may occur and high spray volumes may reduce the turf discoloration. If turf is showing stress due to high temperatures and/or drought, irrigation is recommended 2 to 3 days after treatment.

Failure to observe these use precautions may result in injury.

Keep children and domestic animals off treated area until this material has been watered into the soil.

After using this product, clean sprayer with GORDON'S SPRAY TANK CLEANER and rinse thoroughly with water before applying other pesticides.

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ESTABLISHED BERMUDAGRASS AND ZOYSIAGRASS: Mix 3 to 5 fluid ounces of QUADMEC TURF HERBICIDE in 1 to 3 gallons of water for treatment of 1,000 square feet or 1 to 1 2/3 gallons of QUADMEC TURF HERBICIDE in 50 to 100 gallons of water for treatment of one acre of turf. Better control is obtained by making applications shortly after crabgrass emergence in the spring which will also control surviving winter annual broadleaf weeds and emerged summer annual broadleaf weeds. A second application may be necessary 10 to 14 days later for dense weed populations, especially dallisgrass. Do not apply this product to bermudagrass or zoysiagrass when air temperatures exceed 90°F nor when turf is under stress such as drought.

Zoysiagrass cultivars may vary in the levels of tolerance to applications containing MSMA.

The maximum application rate to turf is 0.9 pounds 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.

ESTABLISHED KENTUCKY BLUEGRASS, TALL FESCUE, TURF-TYPE TALL FESCUES (improved and low growing): Mix 3 fluid ounces of QUADMEC TURF HERBICIDE in 1 to 3 gallons of water for treatment of 1,000 square feet of turf or 1 gallon of QUADMEC TURF HERBICIDE in 50 to 100 gallons of water per acre of turf. Make a second application at the same rate 10 to 14 days after the first application. Make spring applications to newly emerged crabgrass and for broadleaf weed control, including oxalis. Summer applications can be made to more mature crabgrass and to broadleaf weeds. Do not apply this product to Kentucky bluegrass, tall fescue, or turf-type tall fescues when air temperatures exceed 80°F nor when turf is under stress such as drought.

Injury from this product may occur to mixed stands of Kentucky bluegrass and red fescues (chewings fescue, creeping fescue, and spreading fescues). If you are unwilling to accept some degree of turf injury, then do not use this product for mixed stands.

- SPOT TREATMENTS -

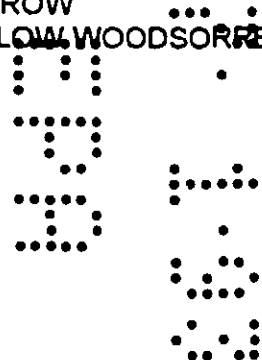
SPOT TREATMENTS FOR ESTABLISHED BERMUDAGRASS, ZOYSIAGRASS, KENTUCKY BLUEGRASS, TALL FESCUE, AND TURF-TYPE TALL FESCUES: Mix 3 fluid ounces of QUADMEC TURF HERBICIDE in 1 gallon of water for treatment of 1000 square feet of turf. Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants. Withhold sprinkling or irrigation for 24 hours after application. Two or more repeat applications at 10 to 14 day intervals may be required. Temporary discoloration of the turfgrass may occur.

- PARTIAL LIST OF WEEDS CONTROLLED -

ASTER  
BEDSTRAW  
BLACK MEDIC  
BUCKHORN  
BURDOCK  
CHICORY  
CHICKWEED  
CLOVERS  
CRABGRASS  
DALLISGRASS  
DANDELION  
DOCKS  
GOOSEGRASS  
GROUND IVY

HEALALL  
HENBIT  
KNOTWEED  
LAMBSQUARTERS  
LESPEDEZA  
MALLOWS  
MORNINGGLORY  
NUTSEGE  
OXALIS  
PEPPERGRASS  
PIGWEEDS  
PLANTAINS  
POISON IVY  
POISON OAK

PURSLANE  
RAGWEED  
SANDBUR  
SHEEP SORREL  
SHEPHERDSPURSE  
SPEEDWELL  
SPURGE  
WILD CARROT  
WILD GARLIC  
WILD LETTUCE  
WILD ONION  
YARROW  
YELLOW WOODSORREL



**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.

