



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
215724

Application for Pesticide - Section I

1. Company/Product Number 2217-765	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name, Embarc® 1-L Plant Growth Regulator	PM# (PM 22)	
5. Name and Address of Applicant (Include ZIP Code) PBI/Gordon Corporation PO Box 014090 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 checked="" 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 type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
AMENDMENT: Use deletion of three sites from the previously approved labeling. Specifically, highway rights-of-way, utility rights-of-way, and roads have been removed from the Directions for Use. Five copies of the revised labeling showing the use deletions as strikeouts are enclosed for your review.

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
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions	
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. Armbruster, Ph.D.	Title Mgr. Regulatory Services	Telephone No. (Include Area Code) (816)421-4070
2. Signature <i>J. A. Armbruster</i>		3. Title Mgr. Regulatory Services
4. Typed Name James A. Armbruster, Ph.D.		5. Date October 28, 1994
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)

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EMBARK®

1-L PLANT GROWTH REGULATOR

ACTIVE INGREDIENT:

** Potassium salt of mefluidide*(N-[2,4-dimethyl-5-[[(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide)	12.0%
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INERT INGREDIENTS	<u>88.0%</u>
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TOTAL	100.0%
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*U.S. Patent Nos. 3,639,474; 3,894,078; 4,013,444.

**Equivalent to 1.0 lbs. (11% by weight) (N-[2,4-dimethyl-5-[[
(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide) per gallon.

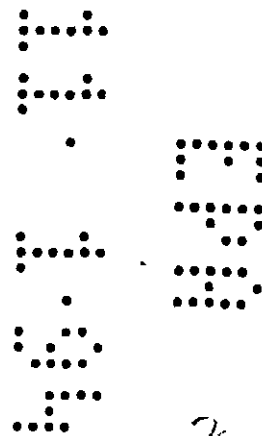
EMBARK® is a registered trademark of PBI/GORDON CORPORATION for mefluidide.

KEEP OUT OF REACH OF CHILDREN

CAUTION

NET CONTENTS ONE GALLON

AP
 EPA REG. NO. 2217-765
 EPA EST. NO. 2217-KS-XX
 Mfd. BY PBI/GORDON CORPORATION
 KANSAS CITY, MISSOURI 64101



STOP! READ THE ENTIRE LABEL BEFORE USING 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. Avoid contact with skin, eyes or clothing. Wear protective clothing; including rubber gloves when handling.

In case of contact immediately flush eyes or skin with plenty of water for 15 minutes. Get medical attention if irritation persists.

If swallowed, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

ENVIRONMENTAL HAZARDS: Do not apply directly to lakes, ponds, or streams. For terrestrial uses, 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 nontarget crops or vegetation.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE and DISPOSAL: Store product in original container in locked storage area, inaccessible to children and pets.

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

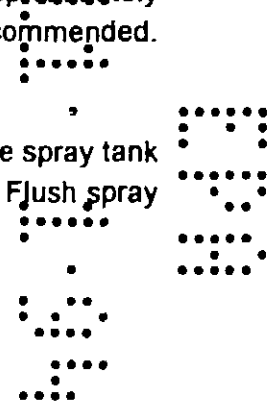
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION: EMBARK 1-L Plant Growth Regulator (PGR) is recommended for use in public, commercial, and industrial areas for regulating the growth of various species of turf grasses and broadleaf vegetation. EMBARK 1-L PGR reduces mowing requirements for up to 8 weeks following treatment by regulating growth and suppressing seedhead formation.

SPRAY EQUIPMENT: EMBARK 1-L PGR may be applied to localized areas with small spray units, such as backpack sprayers, or to larger areas with conventional spray equipment. To be assured of proper dosage and uniform spray coverage it is essential that spray equipment is properly calibrated. When calibrating with small spray equipment, a trial application is recommended over a small measured turf area.

MIXING: Pour the required amount of EMBARK 1-L PGR into the spray tank containing approximately 1/2 the required amount of water. Fill the tank as required with water and spray as recommended. Minimal agitation in the spray tank is necessary.

RINSING: Rinse EMBARK 1-L PGR container with water and pour the rinse solution into the spray tank prior to spraying. Do not use spray equipment for other purposes until thoroughly cleaned. Flush spray equipment with plenty of water immediately after use to avoid contamination of later sprays.



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RECOMMENDED APPLICATION

Apply EMBARK 1-L PGR uniformly to green, actively growing turf. At the time of treatment, turf should be at the height which is desired to be maintained during the period of growth regulation. For season long seedhead suppression of cool season grasses apply no later than when the seedhead can be felt at the base of the stem. (Approximately 2 weeks prior to seedhead appearance.)

Do not apply to closely mowed areas where most of the green growth has been cut. Turf may be mowed up to 1 day before or 3 to 7 days after application. Remove all grass clippings and leaves prior to treatment.

Avoid spray overlaps that will increase dosage above those recommended.

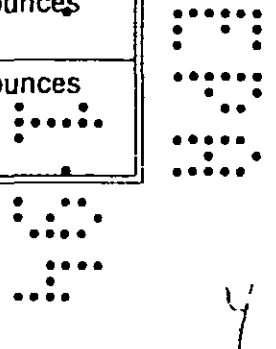
EMBARK 1-L PGR may be applied twice per season on Kentucky bluegrass, fescues, and bermudagrass; however, an interval of at least 6 weeks should occur before the second application. Use the higher rate of application where the greatest growth regulation and seedhead suppression are desired.

RECOMMENDED USE AREAS: EMBARK 1-L PGR applied uniformly as a broadcast spray to turf will reduce mowing requirements for up to 8 weeks in the following commercial and public areas:

- **Commercial-Industrial:** Highway Rights-of-way, Utility Rights-of-way, Buildings, Industrial Parks, Tank Farms, Airports.
- **Public:** Schools, Libraries, Hospitals, Cemeteries, Golf Courses, Parks, Roads and Walkways.

Tank Mixing with 2,4-D or Mecoprop (MCP): EMBARK 1-L PGR may be tank mixed with up to 2.0 pounds active ingredient per acre of 2,4-D in low volatile ester and amine salt formulations and MCP in amine salt formulations. Follow the instructions and precautionary statements on the 2,4-D and MCP product labels.

APPLICATION RATE TABLE		
USE ON	Amounts of EMBARK 1-L PGR	
	per acre in 15 to 50 gallons of water	per 10,000 square feet in 3 to 30 gallons of water
- TURFGRASSES -		
Kentucky Bluegrass, Fescues (Tall, Red, and Chewings), Perennial Ryegrass, Timothy, Reed Canarygrass, Quackgrass, Centipedegrass, Kikuyugrass	2 to 4 pints	8 to 16 fluid ounces
Crested Wheatgrass, Orchardgrass, Smooth Brome	3 to 4 pints	12 to 16 fluid ounces
St. Augustinegrass	2 pints	8 fluid ounces
Common Bermudagrass	8 pints	32 fluid ounces
- CALIFORNIA NATIVE GRASSES AND BROADLEAF VEGETATION -		
Grasses: Wild Barley, Red Brome, Ripgut Brome, Wild Oats	4 to 8 pints	16 to 32 fluid ounces
Broadleaves: Ice Plant, Algerian Ivy, Cheeseweed, Sour Clover, Fiddleneck, Redstem Filaree, Black Mustard	4 to 8 pints	16 to 32 fluid ounces



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NOTE: In comparison with untreated, actively growing turf areas, treated turf which is being maintained in height by EMBARK 1-L PGR may appear less dense and temporarily discolored following application. However, with increasing time, turf may appear darker green than untreated areas.

LIMITATIONS:

- EMBARK 1-L PGR should not be applied to golf greens.
- Do not apply EMBARK 1-L PGR to turf areas within 4 growing months after seeding and do not reseed within 2 weeks following application.
- Do not allow animals to graze on treated areas.
- Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application.
- Do not apply this product through any type of irrigation system.

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.

