

2217-768

8/24/2010

1/14



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7504P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:  
2217-768

Date of Issuance:

AUG 24 2010

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

Embark E-Z-TU-USE Plant  
Growth Regulator

Name and Address of Registrant (include ZIP Code):

PBI Gordon  
1217 West 12<sup>th</sup> Street  
Kansas City, Missouri 64101

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 reregistered in accordance with FIFRA provided that you:

- 1) Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.

Signature of Approving Official:

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (7504P)

Date:

AUG 24 2010

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2) The text "Some materials that are chemical-resistant to this product ....on an EPA chemical-resistance category selection chart" appearing in the handler PPE section is not needed and may be deleted from this section of the label.

3) The first sentence in the second bullet in the User Safety Recommendations must be revised to read:

"User should remove clothing/PPE immediately if pesticide gets inside."

4) It is unclear if this product is intended for sodfarm use (a WPS use). If this product is not to be used on sod farm turf, text similar to the following must be added to the label:

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

If this product is intended for sod farm use, an agricultural use requirements box with the required REI (12 hours) and early entry PPE (coveralls, shoes plus socks, and chemical-resistant gloves made of any waterproof material) must be added to the label.

5) Delete "General" from "General Use Precautions and Restrictions".

6) To the Warranty section, add "to the extent consistent with applicable law" in front of "the exclusive remedy of buyer".

A stamped copy of the label is enclosed for your records. You must submit one copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this letter or the next round of printing must bear the new revised label. If these EPA conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of the product constitutes acceptance of these EPA Reg. conditions. This label supersedes all other previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

Enclosure: Product Chemistry Review  
Acute Toxicology Review

3/14

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
AUG 24 2010

# EMBARK® E-Z-TU-USE PLANT GROWTH REGULATOR

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

## EPA Reg. No. 2217-768

2217-768

### ACTIVE INGREDIENT:

|   |        |
|---|--------|
| Diethanolamine salt of mefluidide* (N-[2,4-dimethyl-5-[[trifluoromethyl)-sulfonyl]amino]phenyl]acetamide) ..... | 3.2%   |
| OTHER INGREDIENTS: .....  | 96.8%  |
| TOTAL .....   | 100.0% |

Equivalent to 0.2 lb (2.4% by weight) (N-[2,4-dimethyl-5-[[trifluoromethyl)sulfonyl]amino]phenyl] acetamide) per gallon.  
U.S. Patent Nos. 3,639,474; 3,894,078; 4,013,444.  
EMBARK® is a registered trademark of PBI/GORDON CORPORATION

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

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

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed.

### Personal Protective Equipment (PPE)

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

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt,
- Long pants and,
- Shoes plus socks.

### User Safety Requirements

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



|  |  |
|--|--|
| <b>User Safety Recommendations</b>   |  |
| <ul style="list-style-type: none"> <li>• Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Users should remove clothing PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul> |  |

|  |  |
|--|--|
| <b>First Aid</b>   |  |
| <b>If in eyes:</b>   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If inhaled:</b>   | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If swallowed</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on skin or clothing:</b>   | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.</p> |  |

**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 or rinsate.

This chemical (nefluidide) has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**DIRECTIONS FOR USE**

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

**GENERAL USE PRECAUTIONS AND RESTRICTIONS:**

- Do not enter or allow others to enter until sprays have dried.
- 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.

**[1.] Sites and Benefits**

Embark® E-Z-Tu-Use PGR may be applied to cool season and warm season turfgrass in commercial, public and noncropland areas such as:

- **Commercial lawns**, defined as areas around properties or facilities providing a service to public or private organizations including, but not limited to office buildings, hospitals, nursing homes, schools, universities, museums, libraries, sport facilities (golf courses), recreation areas, and athletic fields.

- **Residential lawns**, defined as areas associated with the household or home life including, but not limited to, apartment complexes, condominiums, and patient care areas of nursing homes, mental institutions, or convalescent homes.
- **Noncropland areas**, defined as vacant lots, road and curbside grass, fencelines, steep banks, rocky or rough terrain, and other fringe turf areas.
- **Agricultural premises**, such as around farm buildings, storage sheds, implement storage areas, and roadsides.

Embark® E-Z-Tu-Use PGR suppresses seedhead formation, decreases the amount of clippings, and reduces the mowing requirements for up to 4 weeks.

## [2.] Spray Equipment and Mixing Instructions

The following spray equipment is recommended:

**EQUIPMENT:** Use conventional power spray equipment fitted with a spray boom, off-center nozzles, or spray gun. Hose end sprayers and backpack sprayers are appropriate for localized spot treatments or broadcast treatments on larger turfgrass areas. Hand pump and backpack sprayers are suitable for edging or spot treatments.

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

### MIXING:

1. Pour the required amount of Embark® E-Z-Tu-Use PGR into the spray tank containing approximately one-half the required amount of water.
2. Gordon's Professional Spray Colorant is recommended to ensure the uniformity of the application. Refer to instructions for this colorant for the proper concentration.
3. Fill the tank as required with water and spray as recommended.

**SURFACTANTS:** For low maintenance turf only, 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% volume/volume 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.

**CLEANING:** Do not use spray equipment for other purposes until thoroughly cleaned. Flush spray equipment with water and Gordon's Spray Tank Cleaner immediately after use and dispose the rinsate by approved procedures.

## [3.] Vegetative Growth Suppression

**DOSAGE RATES:** Use rates with broadcast applications for cool season and warm season turfgrass are presented in Table 1.

**WHEN TO USE:** Apply Embark® E-Z-Tu-Use PGR uniformly to green, actively growing grass. At the time of treatment, turf should have developed the desired appearance, the desired height, and sufficient foliage for uptake. 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 two weeks prior to seedhead appearance).

#### **[4.] Annual Bluegrass/*Poa annua* Seedhead Suppression**

##### **Bentgrass (Golf Course Fairways)**

Apply Embark® E-Z-Tu-Use PGR after uniform green-up but before the first appearance of *Poa annua* seedheads (approximately two weeks prior to *Poa annua* seedhead appearance). Applications after the first seedhead appearance will suppress only seedheads which have not emerged. Seedheads that have emerged will not be controlled.

##### **Pre-Treatment Turf Management:**

Turf color and quality during week 1 through week 3 of the growth regulation period may be improved with an application of FeRRROMEAC® AC Liquid Iron. Schedule the application of FeRRROMEAC® AC Liquid Iron within 10 days before the application of Embark® E-Z-Tu-Use PGR. Refer to FeRRROMEAC® AC Liquid Iron label for the fertilizer rates. Applications at the rate of 3 fl.oz./1,000 square feet FeRRROMEAC® AC Liquid Iron are often adequate.

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

**SINGLE APPLICATION PROGRAM:** Apply Embark® E-Z-Tu-Use PGR to fairway height (approximately 3/8 to 1/2 inch) bentgrass at a rate of 2.0 to 3.0 pts/acre (0.75 to 1.1 fl.oz./1,000 square feet). The effect of Embark® E-Z-Tu-Use PGR is dependent upon the timing and rate of application.

**MULTIPLE APPLICATION PROGRAM:** Apply Embark® E-Z-Tu-Use PGR to fairway height (approximately 3/8 to 1/2 inch) bentgrass at a rate of 0.5 fl.oz./1,000 square feet at 2 week intervals or 0.75 to 1.0 fl.oz./1,000 square feet at 4 week intervals. The effect of Embark® E-Z-Tu-Use PGR is dependent upon the timing and rate of application.

**NOTE:** Turfgrass treated with Embark® E-Z-Tu-Use PGR may appear temporarily discolored. This program is not recommended unless some discoloration of bentgrass and *Poa annua* can be tolerated. This color change can appear 1 week after treatment and may persist an additional 2 weeks. Treated areas should continue to receive management care designed to encourage the growth of a healthy vigorous turf.

To avoid turf injury, use only on turfgrass that is reasonably free of stress from diseases, insects, excess heat, cold or frost, drought or excess rainfall/irrigation, shaded areas, low soil pH, nematodes, improper mowing or improper applications of fertilizer and pesticides. Injury can occur if this product is applied under any of these or other stress conditions. Under any of these stress conditions, any turf damage caused by the use of this product is beyond the control of PBI/Gordon Corporation and all risk is assumed by the buyer and/or user.

#### **[5.] Mowing and Irrigation**

**Mowing before application** - Grass may be mowed up to two days before applying Embark® E-Z-Tu-Use PGR. Clippings and other debris should be removed before spraying. If mowing removes most of the green leaf tissue, spraying should be delayed until sufficient new growth develops to assure product absorption into green leaves.

**Mowing after application** - For an evenly trimmed appearance grass may be mowed 3 to 7 days after Embark® E-Z-Tu-Use PGR is applied.

Treated areas can be irrigated within 24 hours after application. Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application. If rain occurs within 8 hours, dilution of spray may occur.

### [6.] Use Rates for Turfgrass

| TABLE 1. Use rates for turfgrass  |                              |                        |
|---|------------------------------|------------------------|
| Species   | Amount of Embark® E-Z-Tu-Use |                        |
|   | Pints per Acre               | Fl. Ozs./1,000 Sq. Ft. |
| <b>Cool Season Turf:</b>  |                              |                        |
| Kentucky Bluegrass, Perennial Ryegrass, Tall Fescue, Red Fescue (Chewings Fescue, Slender Creeping Fescue, Spreading Fescue)  | 5.0                          | 1.8                    |
| Mixtures  | See Footnote 1.              | See Footnote 1.        |
| <b>Annual Bluegrass/Poa annua</b>   |                              |                        |
| Single Application  | 2.0 to 3.0                   | 0.75 to 1.1 fl.oz.     |
| Multiple Applications:<br>at 2 week intervals   | ---                          | 0.5 fl.oz.             |
| at 4 week intervals   | ---                          | 0.75 to 1.0 fl.oz.     |
| <b>Warm Season Turf:</b>  |                              |                        |
| St. Augustinegrass  | 5.0                          | 1.8                    |
| Hybrid Bermudagrass (Tifgreen, Tifway, Tifdwarf, Tifway 419, and Tifgreen 328), Centipedegrass  | 20.0                         | 7.4                    |
| Zoysiagrass   | 15 to 20.0                   | 5.5 to 7.4             |
| Footnote 1: <b>For mixed species of turfgrass:</b> Differential responses of mixed turf species may occur with Embark® E-Z-Tu-Use PGR and may result in irregular heights or a non-uniform appearance. Determine the predominant species in the mixed turf and follow the appropriate application instructions for the species that is most commonly found. |                              |                        |

### [7.] Spray Volumes

Spray volumes of 20 to 175 gallons per acre or 0.5 to 4.0 gallons per 1,000 square feet are recommended. Uniform applications are essential. Avoid spray overlaps that will increase the dosage above those recommended.

### [8.] Multiple Applications

**Cool Season and Warm Season Turfgrass:** Embark® E-Z-Tu-Use PGR may be applied more than once per season; however, wait at least 6 weeks between applications. For fall applications, apply at least 1 month before winter dormancy. In turfgrass renovation programs, areas treated with Embark® E-Z-Tu-Use PGR may be reseeded 3 days following application (except California where reseeding may not occur within 2 weeks).

The maximum application rate is 20.0 pints of product per acre per application (0.5 lb mefluidide ae per acre per application). The maximum seasonal rate is 40.0 pints of product per acre per year (1.0 lb mefluidide ae per acre per season).

**TURF COLOR AND NITROGEN/IRON COMBINATIONS:** Turf treated with Embark® E-Z-Tu-Use PGR may appear less dense and temporarily discolored when compared with untreated turf. However, turf quality and color may be increased when compared to the untreated areas after the end growth regulation period.

Turf color and quality during weeks 1 through 3 of the growth regulation period may be improved with an application of Ferromec® AC Liquid Iron. Schedule the application of Ferromec® AC Liquid Iron within 10 days before the application of Embark® E-Z-Tu-Use PGR. Refer to the Ferromec® AC Liquid Iron label for the fertilizer rates.

**HERBICIDE COMBINATIONS FOR TURFGRASS:** Embark® E-Z-Tu-Use PGR is a plant growth regulator and will not provide weed control. Embark® E-Z-Tu-Use PGR may be applied with a broadleaf herbicide such as Trimec® Classic Brand Broadleaf Herbicide, Super Trimec® Broadleaf Herbicide,

Trimec® Southern Broadleaf Herbicide, and other herbicides EPA-registered for use in turfgrass. It is essential to follow label directions exactly for both the Embark® E-Z-Tu-Use and the broadleaf herbicide used.

**[9.] Edging with Pump Type Sprayers**

Embark® E-Z-Tu-Use PGR may be used for edging grass when uniformly applied with pump type sprayers. The benefits of Embark® E-Z-Tu-Use PGR will be extended trimming intervals, reduced time and labor associated with yard maintenance, and reduced growth in areas difficult to trim.

This edging treatment can be used as a substitute for trimming in areas including:

- along sidewalks, driveways, parking areas, road and curbside grass
- around trees, shrubs, ornamental plantings, and under fencelines or guardrails
- around rocks, signposts, or fringe areas
- around buildings, patios, houses, mobile homes, and areas associated with household or home life.
- and other turfgrass areas requiring hand or mechanical trimming.

**WHEN TO USE:** Generally, begin applications in the spring after full green-up and continue applications until early fall.

At the time of application, the turfgrass should have developed the desired appearance, the desired height, and sufficient foliage for uptake. Avoid scalping for all turf species. If mowing or trimming removes most of the green leaf tissue, spraying should be delayed until sufficient new growth develops to assure product absorption into green leaves. Allow one or two days after mowing or trimming before applying Embark® E-Z-Tu-Use PGR. Clippings and other debris should be removed before spraying.

Refer to Table 2 for use rates.

| <b>TABLE 2. Use rates for edging treatments</b>   |  |
|---|--|
| <b>Species</b>  | <b>Amount of Embark® E-Z-Tu-Use*<br/>fl.oz./1,000 sq.ft.</b> |
| <b>Cool Season Turf</b>   |  |
| Kentucky Bluegrass, Perennial Ryegrass, Tall Fescue, Red Fescue<br>(Chewings Fescue, Slender Creeping Fescue, Spreading Fescue)                                   | 4  |
| <b>Warm Season Turf</b>   |  |
| Common Bermudagrass   | 16   |
| Hybrid Bermudagrass, Centipedegrass, Zoysiagrass  | 8  |
| St. Augustinegrass  | 4  |
| * Apply the specified amount of product in a 12 inch band for 1,000 linear feet. Or apply the specified amount of product in a 6 inch band for 2,000 linear feet. |  |

**[10.] Field Marking Paints**

**FIELD MARKINGS:** Temporary field markings can be achieved by applying Embark® E-Z-Tu-Use PGR with line marking paints.

**WHERE TO USE:** Sport stadiums, sport fields (schools, colleges/universities, parks, professional facilities), and athletic fields (football, baseball, soccer, lacrosse, softball, others).

**TURFGRASS:**

**Cool Season Species:** Including Kentucky bluegrass, perennial ryegrass, and fescues.

**Warm Season Species:** Including bermudagrass and St. Augustinegrass. This product is not recommended for bahiagrass.



**EQUIPMENT:** Powered stripers/sprayers, walk behind stripers, or wet line paint applicators capable of delivering lines (bands) 2 to 6 inches wide.

**MATERIALS:** Water based or latex formulations of paint. Line marking paints should comply with the requirements of the appropriate governing body (eg. National Collegiate Athletic Association (NCAA), State High School Athletic Association, or others).

**APPLICATION SCHEDULE:** Generally, begin applications after full green-up in the spring and apply during active growth until early fall. Applications to turfgrass weakened by drought, insects, or disease may increase the potential for discoloration or injury.

**NUMBER OF APPLICATIONS:** Top quality water based latex paints may remain visible for one season provided that heavy use areas are resprayed or touched-up periodically. Generally, one application of Embark® E-Z-Tu-Use PGR with the line marking paint is recommended per season.

**APPLICATION RATE:** The amount of paint per unit area to assure complete opacity and color of the lines should be recommended by the manufacturer. Our recommendations for plant growth regulation with Embark® E-Z-Tu-Use PGR are based upon applying one gallon of marking paint per 1,000 square feet.

**For Cool Season Turfgrass:** Apply 2 to 4 fluid ounces of Embark® E-Z-Tu-Use PGR per one gallon of marking paint to treat 1,000 square feet of line surface area.

**For Warm Season Turfgrass:** Apply 2 to 16 fluid ounces of Embark® E-Z-Tu-Use PGR per one gallon of marking paint to treat 1,000 square feet of line surface area.

Refer to Table 3 for specific use rates.

| TABLE 3. Use rates for field markings           |  |
|---|--|
| SPECIES   | AMOUNT TO USE<br>fl.oz. of Embark® E-Z-Tu-Use PGR per 1 gal<br>of Marking Paint per 1,000 sq.ft. |
| <b>Cool Season Turf</b>                         |  |
| Kentucky Bluegrass, Perennial Ryegrass, Fescues | 2 to 4 fl.oz.  |
| <b>Warm Season Turf</b>                         |  |
| Common Bermudagrass                             | 15 to 16 fl.oz.  |
| Hybrid Bermudagrass                             | 6 to 8 fl.oz.  |
| St. Augustinegrass                              | 2 to 4 fl.oz.  |

**[11.] Overseeding Established Cool Season Turfgrass**

Overseeding established turf with cool season grass seed can improve the turf density and restore the aesthetic quality of turf. Embark® E-Z-Tu-Use PGR can increase the success of overseeding by suppressing the growth of the existing turfgrass and by reducing the frequency of mowing by 50 percent. The reduction of mowing prevents damage to the newly established seedlings. Refer to Table 4.

| TABLE 4. Use rates for overseeding cool season turfgrass |   |              |   |
|--|---|--------------|---|
| Season   | Application Window<br>(Days before Seeding) | Dosage Rate  | Comments  |
| Spring:  | 3 to 14 days                                | See Table 1. | Aeration and seedbed preparation should be completed after the application of Embark® E-Z-Tu-Use PGR. |
| Fall:  | 3 to 14 days                                | See Table 1. | In California, the application window is 14 days before seeding for spring and fall applications.     |

**[12.] Overseeding Bermudagrass Turf**

Hybrid bermudagrass is overseeded with perennial ryegrass, annual ryegrass, and other cool season grasses during the fall to enhance the appearance during winter. Embark® E-Z-Tu-Use PGR can reduce the persistence of the cool season grasses during spring and can improve the hybrid bermudagrass recovery during the transition period.

Apply 5.0 pints of product per acre to the cool season grasses used for overseeding during early spring or prior to the recovery of the dormant bermudagrass.

**[13.] Irrigation and Rainfall**

Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application. Do not contaminate water intended for irrigation or domestic purposes. Do not apply through any type of irrigation system. To prevent product run-off, do not apply when raining or when rain is expected within 8 hours. Do not irrigate for 8 hours after application.

**LIMITATIONS FOR TURFGRASS:**

- Do not use in areas where there is heavy foot traffic. Do not apply to stressed, diseased, or unhealthy grass.
- Avoid spray drift onto nontarget foliage.
- Do not apply Embark® E-Z-Tu-Use PGR to turf areas within four growing months after seeding and do not reseed within 3 days following application (except California where reseeding may not occur within 2 weeks).
- Do not contaminate food or feed.
- Do not feed clippings to livestock. Do not graze livestock in treated areas.
- Keep out of lakes, streams, and ponds.

**[14.] Ornamentals**

Embark® E-Z-Tu-Use PGR may be applied to specified ornamentals and groundcovers in commercial, residential, and public areas.

Embark® E-Z-Tu-Use PGR reduces pruning and trimming for up to 8 weeks by regulating growth and/or inhibiting flower formation.

**TIMING:** Applications should be made to healthy, actively growing plants 7 to 14 days after pruning or trimming. Once the plant resumes active growth, pruning and repeat applications may be made.

For flower inhibition of ornamental olive trees, apply Embark® E-Z-Tu-Use PGR to foliage as a full cover spray at prebloom (tight bud stage) through the 5% bloom stage.

**Spray Volume**

For ornamentals, apply Embark® E-Z-Tu-Use PGR to foliage as a full cover spray to the drip point. Spray penetration of dense foliage and thorough coverage of all parts of shrubs, trees, and ornamentals are essential. The spray volumes will vary according to tree/shrub size, but trees 20 to 30 feet in height will require 10 to 15 gallons of spray solution per tree.

| Use rates for trees, shrubs, and ornamentals   |  |
|--|--|
| Species  | Amount of Embark® E-Z-Tu-Use PGR Per Gallon of Water |
| Acacia, Abelia, African Daisy, Algerian Ivy, Barberry, Bottlebrush, Bougainvillea, Boxwood ( <i>Buxus sp.</i> ), Brazilian Pepper Tree, Burford Holly, Capeweed, Carob, Crepe Myrtle, Elaeagnus, English Ivy, Euonymus, Ficus, Hibiscus, Holly ( <i>Ilex sp.</i> ), Iceplant, Jasmine, Laurel, Melaleuca, Nandina, | 6.5 fl.oz./gal of water                              |

| Use rates for trees, shrubs, and ornamentals  |  |
|---|--|
| Species   | Amount of Embark® E-Z-Tu-Use PGR Per Gallon of Water |
| Oleander, Osmanthus, Photinia, Pittosporum, Podocarpus, Privet ( <i>Ligustrum sp.</i> ), Pyracantha, Raphiolepis, Viburnum, Xylosma, & Yaupon                     |  |
| Ornamental Olive Trees*   | 1.5 fl.oz./gal of water                              |
| *For flower inhibition of olive trees, apply Embark® E-Z-Tu-Use PGR to foliage as a full coverage spray at prebloom (tight bud stage) through the 5% bloom stage. |  |

**IRRIGATION AND RAINFALL:**

Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application. Do not contaminate water intended for irrigation or domestic purposes. Do not apply through any type of irrigation system. To prevent product run-off, do not apply when raining or when rain is expected within 8 hours. Do not irrigate for 8 hours after application.

**LIMITATIONS FOR ORNAMENTALS:**

Do not apply to plants grown in containers. Do not contaminate food or feed. Do not feed clippings to livestock. Do not graze livestock in treated areas. Keep out of lakes, streams, and ponds.

**[15.] Spray Drift Requirements**

**Wind direction**

Only apply this product if the wind direction favors on target deposition.

**Wind Speed**

Do not apply when the wind velocity exceeds 15 mph.

**Temperature Inversions**

Do not make ground spray applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing a smoke layer near the ground surface.

**Droplet Size**

Use only Medium or coarser spray nozzle (ASAE S572)

**Additional Requirements for Groundboom Applications**

All ground boom application equipment must be properly maintained and calibrated using appropriate carriers or surrogates. Do not apply with a nozzle height greater than 4 feet above the ground or foliage canopy.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container in a locked storage area inaccessible to children or pets.

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

**[For Plastic Containers – Nonrefillable with capacities equal to or less than 5 gallons:]**

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, 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.

Triple rinse [or pressure rinse] container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

**[For Plastic Containers – Nonrefillable with capacities greater than 5 gallons:]**  
**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, 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.

Triple rinse [or pressure rinse] container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

[Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

**[For Refillable Containers:]**  
**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Container cleaning: Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**LIMITED WARRANTY AND DISCLAIMER**

**IMPORTANT:** Read this LIMITED WARRANTY AND DISCLAIMER before buying or using this product. By opening and using this product, buyer and all users agree to accept the terms of this LIMITED WARRANTY AND DISCLAIMER in their entirety and without exception. If the terms are not acceptable, return this product unopened immediately to the point of purchase, and the purchase price will be refunded in full.

It is impossible to eliminate all risks inherently associated with use of this product. Damage to the treated article, ineffectiveness, or other unintended consequences can result from use of the product under abnormal conditions such as weather, presence of other materials, or the manner of use or application, etc. Such factors and conditions are beyond the control of the manufacturer, and **BY PURCHASING AND USING THIS PRODUCT THE BUYER AND ALL USERS OF THIS PRODUCT AGREE TO ACCEPT ALL SUCH RISKS.** Buyer and all users further agree to assume all risks of loss or damage from the use of the product in any manner that is not explicitly set forth in or that is inconsistent with label instructions, warnings and cautions.

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## **APPENDIX**

### **1. Statements which may appear on different label components depending on packaging configuration.**

- See next panel for additional Precautionary Statements and First Aid
- Net Contents: \_\_\_\_\_
- EPA Est. No. \_\_\_\_\_

### **2. Advertising claims that may be presented on container labeling, advertisements, brochures, and other marketing/sales promotional materials:**

- Reduces Frequency of Mowing and Trimming of Certain Grasses and Ornamentals
- ISO 9002 Quality Assurance Logo:



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## **DOCUMENT CONTROL INFORMATION**

1. **Unique Label Identifier:** 002217-00768.20090410.amend-proposed.doc
2. **Reason for Issue:** Various changes pertaining to re-registration. Re-format label.