


Please read instructions on reverse before completing form.

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

|   |  |  |  |
|---|--|--|--|
| <b>(A)</b><br> | United States Environmental Protection Agency<br>Office of Pesticide Programs (H7505C)<br>Washington, DC 20460 | <input type="checkbox"/> Registration<br><input type="checkbox"/> Amendment<br><input checked="" type="checkbox"/> Other | OPP Identifier Number<br><b>192068</b> |
|   | Application for Pesticide:   |  |  |

**Section I**

|  |  |  |
|--|--|--|
| 1. Company/Product Number<br><b>2217-768</b>   | 2. EPA Product Manager<br><b>Robert Taylor</b>   | 3. Proposed Classification<br><input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br><b>Embark® E-Z-TU-Use Plant Growth Regulator</b>  | PM#<br><b>(PM 25)</b>  |  |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>PBI/Gordon Corporation<br/>PO Box 4090<br/>1217 West 12th Street.<br/>Kansas City, MO 64101</b><br><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:<br><br>EPA Reg. No. _____<br><br>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.

**BEST AVAILABLE COPY**

**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<br><input type="checkbox"/> Yes*<br><input type="checkbox"/> No   | Unit Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input type="checkbox"/> No |  | <input type="checkbox"/> Metal  | <input type="checkbox"/> Plastic |
|   | If "Yes," Unit Package wgt.   | No. per container  | If "Yes," Package wgt.                         | No. per container   | <input type="checkbox"/> Glass   |
| * Certification must be submitted.  |   |  | <input type="checkbox"/> Paper                 |   |                                  |
|   |   |  | <input type="checkbox"/> Other (Specify) _____ |   |                                  |
| 3. Location of Net Contents Information<br><input type="checkbox"/> Label <input type="checkbox"/> Container  |   | 4. Size(s) of Retail Container   |  | 5. Location of Label Directions<br><input type="checkbox"/> On Label<br><input type="checkbox"/> On Labeling accompanying product |                                  |
| 6. Manner In Which Label Is Affixed To Product<br><input type="checkbox"/> Lithograph<br><input type="checkbox"/> Paper glued<br><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<br><b>James A. Armbruster, Ph.D.</b> | Title<br><b>Mgr. Regulatory Services</b> | Telephone No. (Include Area Code)<br><b>(816)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.

|   |   |   |
|---|---|---|
| 2. Signature<br> | 3. Title<br><b>Mgr. Regulatory Services</b> | 6. Date Application Received (Stamped)<br><br> |
| 4. Typed Name<br><b>James A. Armbruster, Ph.D.</b>  | 5. Date<br><b>May 20, 1993</b>              |   |

# EMBARK® E-Z-TU-USE PLANT GROWTH REGULATOR (PGR)

Reduces Frequency of Mowing and Trimming  
of Certain Grasses and Ornamentals

**ACTIVE INGREDIENT:**

\*\*Diethanolamine salt of mefluidide\*(N-[2,4-dimethyl  
-5-[[[(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide)..... 3.2%

INERT INGREDIENTS..... 96.8%  
TOTAL 100.00%

\*U.S. Patent Nos. 3,639,474; 3,894,078; 4,013,444.

\*\*Equivalent to 0.2 lbs. (2.1% 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**

**NOTIFICATION  
LABEL NOT REVIEWED  
PER PR NOTICE 88-6**  
DATE. 7/12/93

## CAUTION

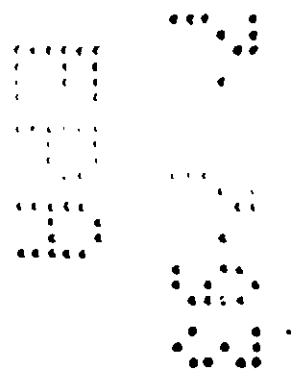
See other panels for Statement of Practical Treatment  
and additional Precautionary Statements.

NET CONTENTS \_\_\_\_\_

681 AP052093

EPA REG. NO. 2217-768  
EPA EST NO. 2217-K 3-1  
EPA EST NO. 2217-KS-2

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 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.

#### **Statement of Practical Treatment**

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. 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 with plenty of soap and water.

**Environmental Hazards:** Do not apply directly to lakes, ponds, or streams. Do not contaminate water when disposing of equipment washwaters. 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 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.

#### **(OPTION 1)**

#### **STORAGE AND DISPOSAL IN RESIDENTIAL AND HOUSEHOLD AREAS**

Store product in original container only and in a locked storage area. For disposal, rinse thoroughly and securely wrap original container in several layers of newspaper and discard in trash. Do not reuse empty container.

EMBARK® E-Z-TU-USE PGR is recommended for use in residential areas for regulating the growth of various species of turfgrasses. When applied to turfgrasses, EMBARK E-Z-TU-USE PGR reduces mowing requirements for up to 6 weeks following treatment by regulating growth and suppressing seedhead formation.

#### **RECOMMENDED USE AREAS:**

EMBARK E-Z-TU-USE PGR is recommended for use on less-maintained turfgrass areas such as out-of-the-way backyard areas, vacant lots, road and curbside grass, fenceline areas, steep banks, vacation home areas, rocky or rough terrain grass areas, and other fringe turf areas that are difficult to mow and where pristine, fine quality turf is not a priority.

**Note:** EMBARK E-Z-TU-USE PGR is a plant growth regulator and will not provide herbicidal control of weeds. For weed control, EMBARK E-Z-TU-USE PGR should be applied with a broadleaf herbicide such as ACME® TRIMEC® LAWN WEED KILLER or other WEED-NO-MORE® brand products. It is essential to follow label directions exactly for both the EMBARK E-Z-TU-USE PGR and the broadleaf herbicide used.

For residential turf areas that are frequently maintained and trimmed, or for home lawn areas which present a pristine quality, fine turf appearance, EMBARK E-Z-TU-USE PGR applications may not be suitable.

#### **Edging:**

EMBARK E-Z-TU-USE PGR may also be used for edging and trimming grass when uniformly applied with pump type sprayers or hose-end sprayers.

Apply along and around obstacles bordering such areas as sidewalks, driveways, trees, and fences where grass is desired to meet the obstacle, but growth regulation is desired to avoid trimming.

**SPRAY EQUIPMENT:**

EMBARC E-Z-TU-USE PGR may be applied to localized turfgrass areas with small spray units such as hand pump tank type and hose-end sprayers.

It is essential that the spray equipment is operating properly and is delivering the correct recommended dosage rates. Accordingly, a trial application over a measured area is recommended.

**MIXING:**

Since EMBARK E-Z-TU-USE PGR is soluble in water, minimal mixing with the final spray solution is required. Accordingly, when mixing in spray equipment other than a hose-end sprayer, pour the required amount of EMBARK E-Z-TU-USE PGR into the spray tank containing approximately one-half the required amount of water. Fill the tank as required with water and spray as recommended.

**RINSING:**

Triple rinse the EMBARK E-Z-TU-USE 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.

For hose-end sprayers, thoroughly rinse spray container and spray solution onto treated area.

**TURFGRASSES:**

When applied according to the application rates specified, EMBARK E-Z-TU-USE PGR will regulate the growth of the following turfgrasses:

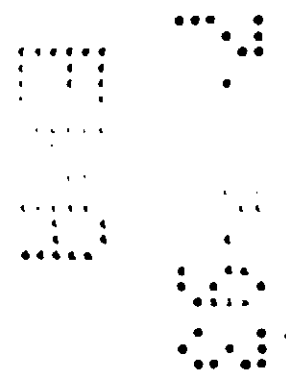
- |                               |                    |
|-------------------------------|--------------------|
| Kentucky and Annual Bluegrass | Kikuyugrass        |
| Tall, Red and Chewings Fescue | Centipedegrass     |
| Perennial Ryegrass            | Crested Wheatgrass |
| Timothy                       | Orchardgrass       |
| Reed Canarygrass              | Smooth Bromegrass  |

**RECOMMENDED APPLICATIONS:**

Apply EMBARK E-Z-TU-USE PGR to well established turf areas when grass is green and actively growing. At the time of treatment, turf should be at the height which is desired to be maintained during the period of growth regulation. Do not apply to closely-mowed areas where most of the green growth has been cut. Turf may be mowed up to one day before application. Remove all grass clippings and leaves prior to treatment. EMBARK E-Z-TU-USE PGR may be applied more than once per season. However, wait until the grass resumes active growth and then mow prior to the next application for a more uniform turf appearance. Wait at least six weeks between applications. While a second mowing after spraying should not be necessary for 6 weeks some trim mowing may be desirable to maintain a uniform, even appearing turf area.

To maintain a healthy, well-groomed turf area, continue to water grass on a regular basis and use fertilizers, herbicides, insecticides, or fungicides as needed.

In comparison with untreated, actively growing grass, treated turf which is maintained in height by EMBARK E-Z-TU-USE PGR may appear less dense and temporarily discolored following application. With increasing time, however, EMBARK E-Z-TU-USE PGR treated turf may appear darker green than untreated areas.



**PRESSURE SPRAYERS:**

Measure indicated amount of EMBARK E-Z-TU-USE PGR into tank and dilute with water according to the following chart. Use a spray pattern that will give a uniform full coverage spray to the area indicated. Avoid spray overlaps that will increase dosage above those recommended.

| Amt. EMBARK To Use<br>(Tbsp.) (Fl.Oz.) |   | Amt. of Water in Sprayer<br>(Gallons) | Area To Be Sprayed<br>(Sq. Ft.) |
|--|---|---------------------------------------|---------------------------------|
| 2                                      | 1 | 1                                     | 200                             |
| 4                                      | 2 | 2                                     | 400                             |
| 6                                      | 3 | 3                                     | 600                             |

**HOSE-END SPRAYERS:**

Apply EMBARK E-Z-TU-USE PGR to well established turf areas when grass is green and actively growing. To ensure good coverage, spray until grass is thoroughly wet down to the soil without drenching the soil. For best results use a hose-end sprayer designed for lawns and capable of delivering 7 to 10 gallons of water per 1,000 square feet. Put recommended amount of product (column 1) in bottle and add water to indicated level (column 2), and spray on area shown in column 3.

| Column 1<br>Amt. EMBARK To Use<br>(Tbsp.) (Fl.Oz.) |    | Column 2<br>Fill Bottle To<br>(Gallons) | Column 3<br>Area to Treat<br>(Sq. Ft.) |
|--|----|---|--|
| 4  | 2  | 4                                       | 400                                    |
| 10   | 5  | 10                                      | 1000                                   |
| 14   | 7  | 14                                      | 1400                                   |
| 20   | 10 | 20                                      | 2000                                   |
| 32   | 16 | 32                                      | 3000                                   |

**LIMITATIONS:**

- \* EMBARK E-Z-TU-USE PGR should not be applied to golf greens.
- \* Do not apply EMBARK E-Z-TU-USE PGR to turf areas within four growing months after seeding and do not reseed within two weeks following application
- \* Do not use in areas where there is heavy foot traffic.
- \* 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
- \* Avoid spray drift onto non-target foliage.
- \* Avoid drift onto food crops.
- \* Do not wash foliage for at least 24 hours. If rain occurs within 8 hours, dilution of spray may occur.
- \* Do not apply to stressed, diseased, or otherwise unhealthy grass.
- \* Do not apply to plants grown in containers.
- \* Do not apply this product through any type of irrigation equipment.

**(OPTION 2)**

**STORAGE AND DISPOSAL IN RESIDENTIAL AND HOUSEHOLD AREAS**

Store product in original container only and in a locked storage area. For disposal, rinse thoroughly and securely wrap original container in several layers of newspaper and discard in trash. Do not reuse empty container.

EMBARC E-Z-TU-USE PGR is recommended for use in residential areas for regulating the growth of various species of turfgrasses and ornamentals. When applied to turfgrasses, EMBARK E-Z-TU-USE PGR reduces mowing requirements for up to 6 weeks following treatment by regulating growth and suppressing seedhead formation.

**RECOMMENDED USE AREAS:**

EMBARC E-Z-TU-USE PGR may be applied to turfgrasses or ornamentals in the following areas:

**PUBLIC-RESIDENTIAL:** Home lawns, schools, libraries, hospitals, cemeteries, golf courses, parks, walkways, condominiums, and apartment complexes.

**AGRICULTURAL PREMISES:** Around farm buildings, storage sheds, and implement storage areas.

**EDGING:** EMBARK E-Z-TU-USE PGR may also be used for edging and trimming grass or ornamentals when uniformly applied with pump type sprayers or hose-end sprayers.

For turf, apply along and around obstacles bordering such areas as sidewalks, driveways, trees, and fences where grass is desired to meet the obstacle, but growth regulation is desired to avoid trimming.

EMBARC E-Z-TU-USE PGR is recommended for use on less-maintained turf grass areas such as: out-of-the-way backyard areas, vacant lots, road and curbside grass, fenceline areas, steep banks, vacation home areas, rocky or rough terrain grass areas, and other fringe turf areas that are difficult to mow and where pristine, fine quality turf is not a priority.

**Note:** EMBARK E-Z-TU-USE PGR is a plant growth regulator and will not provide herbicidal control of weeds. For weed control, EMBARK E-Z-TU-USE PGR should be applied with a broadleaf herbicide such as ACME® TRIMEC® LAWN WEED KILLER or other WEED-NO-MORE® brand products. It is essential to follow label directions exactly for both the EMBARK E-Z-TU-USE PGR and the broadleaf herbicide used.

For residential turf areas that are frequently maintained and trimmed, or for home lawn areas which present a pristine quality, fine turf appearance, EMBARK E-Z-TU-USE PGR applications may not be suitable.

**SPRAY EQUIPMENT:**

EMBARC E-Z-TU-USE PGR may be applied to localized turfgrass areas with small spray units such as hand pump tank type or hose-end sprayers, or to larger areas with conventional spray equipment fitted with a spray boom, off centered nozzles, or handgun.

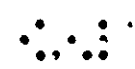
It is essential that the spray equipment is operating properly and is delivering the correct recommended dosage rates. Accordingly, a trial application over a measured area is recommended.

**MIXING:**

Since EMBARK E-Z-TU-USE PGR is soluble in water, minimal mixing with the final spray solution is required. Accordingly, when mixing in spray equipment other than a hose-end sprayer, pour the required amount of EMBARK E-Z-TU-USE PGR into the spray tank containing approximately one-half the required amount of water. Fill the tank as required with water and spray as recommended.

**RINSING:**

Triple rinse the EMBARK E-Z-TU-USE 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. For hose-end sprayers, thoroughly rinse spray container and spray solution onto treated area.



**RECOMMENDED APPLICATIONS USING CONVENTIONAL SPRAY EQUIPMENT**

**TURFGRASS:**

Apply EMBARK E-Z-TU-USE PGR uniformly to green, actively growing grass. 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 two 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 one day before or three to seven days after application. Remove all grass clippings and leaves prior to treatment. Avoid spray overlaps that will increase dosage above those recommended. EMBARK E-Z-TU-USE PGR may be applied more than once per season. However, wait until the grass resumes active growth and then mow prior to the next application for a more uniform turf appearance. Wait at least 6 weeks between applications. Use the higher rate of application where the greatest growth regulation and seed head suppression are desired. In comparison with untreated, actively growing grass, treated turf which is maintained in height by EMBARK E-Z-TU-USE PGR may appear less dense and temporarily discolored following application. With increasing time, however, turf may appear darker green than untreated areas.

**ORNAMENTALS:**

EMBARK E-Z-TU-USE PGR reduces pruning and trimming for up to 8 weeks by regulating growth and/or inhibiting flower formation. Apply to foliage as a full coverage spray to the point of runoff and foliage penetration. Applications should be made to healthy, actively growing plants 7 to 14 days after pruning or trimming.

For flower inhibition of olive trees, apply EMBARK E-Z-TU-USE PGR to foliage as a full coverage spray to runoff at pre-bloom (tight bud stage) through the 5% bloom stage.

When applied according to the application rates specified, EMBARK E-Z-TU-USE PGR will regulate the growth of the following ornamentals:

**APPLICATION RATE TABLE USING CONVENTIONAL OR PORTABLE TANK TYPE PRESSURE SPRAYER**

| Use on: TURFGRASSES   | Amount of EMBARK E-Z-TU-USE PGR<br>Per 1,000 Square Feet in 3 Gallon Water |
|---|--|
| Kentucky and Annual Bluegrass<br>Tall, Red and Chewing Fescue<br>Perennial Ryegrass<br>Timothy<br>Reed Canarygrass<br>Quackgrass<br>Kikuyugrass<br>Centipedegrass | 4 to 8 Fluid Ounces  |
| Crested Wheatgrass<br>Orchardgrass<br>Smooth Bromegrass   | 6 to 8 Fluid Ounces  |
| St. Augustinegrass  | 4 Fluid Ounces   |
| Common Bermudagrass   | 16 Fluid Ounces  |

Amount of EMBARK E-Z-TU-USE PGR

Use on: ORNAMENTALS

Per Gallon Water

|                        |                    |
|------------------------|--------------------|
| Abelia                 | 6 1/2 Fluid Ounces |
| Barberry               |                    |
| Bottlebrush            |                    |
| Bougainvillea          |                    |
| Boxwood (Buxus sp.)    |                    |
| Crepe Myrtle           |                    |
| Elaeagnus              |                    |
| Euonymus               |                    |
| Ficus                  |                    |
| Hibiscus               |                    |
| Holly (Ilex sp.)       |                    |
| Jasmine                |                    |
| Laurel                 |                    |
| Melaleuca              |                    |
| Nandina                |                    |
| Oleander               |                    |
| Osmanthus              |                    |
| Photinia               |                    |
| Pittosporum            |                    |
| Podocarpus             |                    |
| Privet (Ligustrum sp.) |                    |
| Pyracantha             |                    |
| Viburnum               |                    |
| Xylosma                |                    |
| Yaupon                 |                    |

Ornamental Olive Trees

1 1/2 Fluid Ounces

RECOMMENDED APPLICATIONS USING HOSE-END/HIGH VOLUME APPLICATIONS

TURFGRASS

Apply EMBARK E-Z-TU-USE PGR to well established turf areas when grass is green and actively growing. To ensure good coverage, spray until grass is thoroughly wet down to the soil without drenching the soil. For best results use a hose-end sprayer capable of delivering 7 to 10 gallons of water per 1,000 square feet. For a uniform appearance to the grass area, a mowing is recommended one to two days prior to spraying EMBARK E-Z-TU-USE PGR. While a second mowing after spraying should not be necessary for 3 to 6 weeks, some trim mowing may be required to maintain a uniform, even appearing turf area. A repeat application may be made to turf; however, wait until the grass resumes active growth and then mow prior to the next application for a more uniform turf appearance. Wait at least 6 weeks between applications. To maintain a healthy, well groomed turf area, continue to water grass on a regular basis and use fertilizers, herbicides, insecticides, or fungicides as needed.

When applied according to the application rates specified, EMBARK E-Z-TU-USE PGR will regulate the growth of the following turfgrasses:

- Kentucky and Annual Bluegrass
- Tall, Red and Chewings Fescue
- Perennial Ryegrass
- Timothy
- Reed Canarygrass
- Quackgrass

- Kikuyugrass
- Centipedegrass
- Crested Wheatgrass
- Orchardgrass
- Smooth Bromegrass



**PRESSURE SPRAYERS:**

Measure indicated amount of EMBARK E-Z-TU-USE PGR into tank and dilute with water according to the following chart. Use a spray pattern that will give a uniform full coverage spray to the area indicated. Avoid spray overlaps that will increase dosage above those recommended.

| Amount EMBARK To Use<br>(Tablespoons) | To Use<br>(Fluid Ounces) | Amount of Water in Sprayer<br>(Gallons) | Area To Be Sprayed<br>(Square Feet) |
|---------------------------------------|--------------------------|---|-------------------------------------|
| 2                                     | 1                        | 1                                       | 200                                 |
| 4                                     | 2                        | 2                                       | 400                                 |
| 6                                     | 3                        | 3                                       | 600                                 |

**HOSE-END SPRAYERS:**

Apply EMBARK E-Z-TU-USE PGR to well established turf areas when grass is green and actively growing. To ensure good coverage, spray until grass is thoroughly wet down to the soil without drenching the soil. For best results use a hose-end sprayer designed for lawns and capable of delivering 7 to 10 gallons of water per 1,000 square feet. Put recommended amount of product (column 1) in bottle and add water to indicated level (column 2), and spray on area shown in column 3.

| Column 1<br>Amount EMBARK To Use<br>(Tablespoons) | (Fluid Ounces) | Column 2<br>Fill Bottle To<br>(Gallons) | Column 3<br>Area to Treat<br>(Square Feet) |
|---|----------------|---|--|
| 4   | 2              | 4                                       | 400  |
| 10  | 5              | 10                                      | 1000                                       |
| 14  | 7              | 14                                      | 1400                                       |
| 20  | 10             | 20                                      | 2000                                       |
| 32  | 16             | 32                                      | 3000                                       |

**LIMITATIONS:**

- \* EMBARK E-Z-TU-USE PGR should not be applied to golf greens.
- \* Do not apply EMBARK E-Z-TU-USE PGR to turf areas within four growing months after seeding and do not reseed within two weeks following application.
- \* Do not use in areas where there is heavy foot traffic.
- \* 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.
- \* Avoid spray drift onto non-target foliage.
- \* Avoid drift onto food crops.
- \* Do not wash foliage for at least 24 hours. If rain occurs within 8 hours, dilution of spray may occur.
- \* Do not apply to stressed, diseased, or otherwise unhealthy grass or ornamentals.
- \* Do not apply to plants grown in containers.
- \* Do not apply this product through any type of irrigation equipment.

**(OPTION 3)****STORAGE AND DISPOSAL**

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

**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:** 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.

EMBARK E-Z-TU-USE PGR is recommended for regulating the growth of various species of turfgrasses, broadleaf vegetation, and ornamentals in public, commercial and industrial areas.

**SPRAY EQUIPMENT:**

The following spray equipment is recommended for:

**Ornamentals and Groundcover:** Use a power sprayer equipped with hand-held or vehicular-mounted equipment that will deliver sufficient spray to penetrate dense foliage and provide thorough coverage of all parts of shrubs or plants.

**Turfgrasses:** Use conventional power spray equipment fitted with a spray boom, off-center nozzles, or handgun. Handpump sprayers are suitable for edging or spot treatments.

**MIXING:**

Pour the required amount of EMBARK E-Z-TU-USE 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 since EMBARK E-Z-TU-USE PGR is soluble in water.

**CALIBRATION:**

It is essential that 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.

**RINSING:**

Triple rinse the EMBARK E-Z-TU-USE 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.

**TURFGRASSES****RECOMMENDED APPLICATIONS - TURFGRASSES****RECOMMENDED USE AREAS:**

EMBARK E-Z-TU-USE PGR may be applied to specified turfgrasses in commercial, public and certain agricultural areas such as:

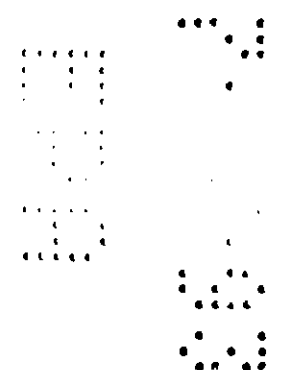
**COMMERCIAL-INDUSTRIAL:** Highway rights-of-way, utility rights-of-way, buildings, industrial parks, tank farms, airports.

**PUBLIC:** Schools, libraries, hospitals, cemeteries, golf courses, parks, roads, walkways.

**AGRICULTURAL PREMISES:** Around farm buildings, storage sheds, implement storage areas, and roadsides.

**MOWING:** When 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. When 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.

When mowing is not desired or practical: Apply EMBARK E-Z-TU-USE PGR in the spring, after green-up, but before mowing is necessary, thus avoiding mowing until growth regulation wears off.



**TANK MIXING WITH HERBICIDES:** EMBARK E-Z-TU-USE PGR may be tank mixed with one of the following herbicides to control broadleaf weeds:

| HERBICIDE  | MAXIMUM RATE                  |
|--|-------------------------------|
| APOLLO-445   | 2 gallons/acre                |
| SELECT-TROL  | 2 gallons/acre                |
| 2,4-D low volatile ester and amine salt formulations | 2 lbs. active ingredient/acre |
| MCPP in amine salt formulations                      | 2 lbs. active ingredient/acre |

**ROADSIDE AND LOW MAINTENANCE TURF:**

Maximum benefits, including season long seedhead suppression of cool-season grasses, can be attained by applying 1 7/8 to 2 1/2 gallons/acre of EMBARK E-Z-TU-USE PGR with surfactant after uniform grass greenup until approximately 2 weeks before seedhead appearance. Use the 2 1/2 gallon rate for maximum seedhead suppression during the last week of this period. If applied less than two weeks prior to seedhead appearance, EMBARK E-Z-TU-USE PGR applications will continue to give vegetative growth suppression for up to 8 weeks, however, a mowing will be necessary to eliminate seedheads. For roadside and low maintenance turf in California, follow the recommended rates according to the California rate table.

**SURFACTANTS:** The use of a non-ionic surfactant, for example, GROUNDMASTER SWA (except Calif.) is recommended to increase the extent and consistency of turfgrass regulation on roadside and low maintenance turf only. The surfactant rate is recommended at 0.25 to 0.5% V/V (1 to 2 quarts/100 gallons finished spray solution). Temporary, slight discoloration of turf also may increase with the use of a surfactant.

**LIMITATIONS:**

Do not apply EMBARK E-Z-TU-USE PGR to golf greens. Do not apply to turf areas within 4 growing months after seeding and do not reseed within 3 days following application (except Calif. where reseeding may not occur within 2 weeks). Turf treated with EMBARK E-Z-TU-USE PGR may appear less dense and temporarily discolored when compared with untreated, actively-growing turf. However, with increasing time, turf may appear darker green than untreated areas. Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application. Do not allow animals to graze on treated areas. Do not apply this product through any type of irrigation equipment.

**APPLICATION RATE TABLE - TURFGRASS**

**RECOMMENDATIONS:**

EMBARK E-Z-TU-USE PGR applied to turfgrass, reduces mowing requirements for up to 6 weeks following treatment by regulating growth and preventing seedhead formation. Apply EMBARK E-Z-TU-USE PGR uniformly to green, actively growing turf. 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. Remove excessive grass clippings and leaves prior to treatment. Avoid spray overlaps that will increase dosage above those recommended. EMBARK E-Z-TU-USE PGR may be applied more than once per season, however, wait at least 6 weeks between applications. In turfgrass renovation programs, areas treated with EMBARK E-Z-TU-USE PGR may be reseeded 3 days following application (except Calif. where reseeding may not occur within 2 weeks).

RECOMMENDED RATE OF EMBARK E-Z-TU-USE PGR

| PER ACRE IN<br>15 to 150<br>GALLONS<br>SPECIES  | PER 1000<br>SQUARE FEET<br>IN 3 GALLONS<br>WATER* | WATER      | REMARKS   |
|---|---|------------|---|
| Annual Bluegrass**<br>(Poa annua)<br>(seedhead suppression)   | 2 1/2 quarts                                      | 2 fl. oz.  | For seedhead suppression only apply after after uniform green-up but before the first first appearance of seedheads. Applica- tions after the first seedhead appearance will suppress seedheads which have not emerged.   |
| Kentucky and Annual<br>Bluegrass<br>Tall, Red and<br>Chewings Fescue<br>Perennial Ryegrass<br>Timothy<br>Reed Canarygrass<br>Quackgrass<br>Kikuyugrass<br>Crested Wheatgrass**<br>Orchardgrass**<br>Smooth Bromegrass**<br>Centipedegrass | 1 7/8 gallons                                     | 6 fl. oz.  | For those grasses recommended at the 1 7/8 gallon rate a slightly longer period of growth regulation can be attained with a 2 1/2 gallon/acre rate. If temporary discoloration of turf occurs and is objectionable reduce the 1 7/8 gallon rate to 1 1/4 gallon/acre. |
| St. Augustine   | 1 1/4 gallons                                     | 4 fl. oz.  |   |
| Common Bermudagrass   | 5 gallons   | 15 fl. oz. |   |

CALIFORNIA USE ONLY

|  |               |            |  |
|--|---------------|------------|--|
| Kentucky and Annual<br>Bluegrass<br>Tall, Red and<br>Chewings Fescue<br>Perennial Ryegrass<br>Timothy<br>Reed Canarygrass<br>Quackgrass<br>Centipedegrass<br>Kikuyugrass | 1 7/8 gallons | 6 fl. oz.  | For grasses recommended at the 1 7/8 gallon rate, reduce the rate to 1 1/4 gallon/acre if temporary discoloration of turf occurs and is objectionable. In turf- grass renovation programs, areas treated with EMBARK E-Z-TU-USE PGR may be reseeded 2 weeks following application. |
| St. Augustinegrass   | 1 1/4 gallons | 4 fl. oz.  |  |
| Common Bermudagrass  | 5 gallons     | 15 fl. oz. |  |

NATIVE GRASSES AND BROADLEAF VEGETATION

|  |               |           |   |
|--|---------------|-----------|---|
| Grasses:   | 2 1/2 gallons | 8 fl. oz. | For native grasses and broadleaf vegetation, areas with high soil fertility may require up to 5 gallons/acre. |
| Wild Barley, Red Brome, Rirgut                                     |               |           |   |
| Brome, Wild Oats   |               |           |   |
| Broadleaves:   |               |           |   |
| Cheesweed, Sour Clover, Fiddleneck, Redstem Filaree, Black Mustard |               |           |   |

\* The amount of water used to give adequate and uniform spray coverage is dependent on the type of spray equipment used.  
 \*\* Except California.

ORNAMENTALS

RECOMMENDED APPLICATIONS - ORNAMENTALS

RECOMMENDED USE AREAS:

EMBARK E-Z-TU-USE PGR may be applied to specified ornamentals and groundcover in commercial and public areas such as:

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, walkways.

LIMITATIONS:

Avoid spray drift on non-target foliage. Avoid drift on food crops. Do not wash foliage for at least 8 hours after application. If rain occurs with 8 hours, dilution of spray may occur. Do not apply to plants that are stressed, diseased, or otherwise unhealthy. Do not apply to plants grown in containers. Before using EMBARK E-Z-TU-USE PGR on ornamentals, thoroughly clean spray tank to remove any broadleaf herbicide that may be present.

APPLICATION RATE TABLE - ORNAMENTALS

RECOMMENDATIONS:

EMBARK E-Z-TU-USE PGR, applied as a full coverage spray to specified ornamental shrubs, hedges, trees and groundcover reduces trimming and pruning for up to 8 weeks by regulating growth.

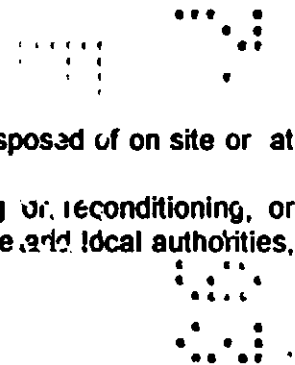
RECOMMENDED RATE OF EMBARK E-Z-TU-USE PGR

| SPECIES  | PER 100 GALLONS WATER* | PER GALLON WATER | REMARKS   |
|--|------------------------|------------------|---|
| Ligustrum, Japanese<br>Pyracantha<br>English Ivy<br>Burford Holly<br>14<br>Japanese Holly<br>(except Calif.)   | 5 gallons              | 6 1/2 fl. oz.    | For growth regulation, apply EMBARK E-Z-TU-USE PGR as a full coverage spray to runoff and foliage penetration. 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. |
| <u>ORNAMENTALS - CALIFORNIA USE ONLY</u>   |                        |                  |   |
| <u>Groundcover:</u><br>African Daisy,<br>Capeweed, Iceplant,<br>English Ivy,<br>Algerian Ivy   | 5 gallons              | 6 1/2 fl. oz.    |   |
| <u>Shrubs and Trees:</u><br>Acacia, Bottlebrush,<br>Brazilian Pepper<br>Tree, Carob, Ficus,<br>Hibiscus  |                        |                  |   |
| Burford Holly,<br>Melaleuca, Oleander,<br>Photinia, Pittosporum,<br>Podocarpus, Privet<br>(Ligustrum sp.),<br>Pyracantha,<br>Raphiolepis,<br>Viburnum,<br>Xylosma. | 5 gallons              | 6 1/2 fl. oz.    |   |
| Ornamental Olive   | 1 1/4 gallons          | 1 2/3 fl. oz.    | For flower inhibition of olive trees, apply Trees EMBARK E-Z-TU-USE PGR to foliage as a full coverage spray to runoff at prebloom through the 5% bloom stage. Trees 20 to 30 feet in height will require 10 to 15 gallons of finished spray solution per tree.  |

OPTION 4

**STORAGE AND DISPOSAL**

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



**RECOMMENDED USE AREAS and BENEFITS:**

EMBARC E-Z-TU-USE PGR may be applied to specified turfgrasses and ornamentals in commercial, public and certain agricultural areas such as:

**COMMERCIAL-INDUSTRIAL:** Highway rights-of-way, utility rights-of-way, buildings, industrial parks, tank farms, airports.

**PUBLIC:** Home lawns, schools, libraries, hospitals, cemeteries, golf courses, parks, walkways.

**AGRICULTURAL PREMISES:** Around farm buildings, storage sheds, implement storage areas, and roadsides.

**NON-CROP WIDE OUTDOOR** Backyard areas, vacant lots, road and curbside grass, fenceline areas,

**AREAS:** steep banks, vacation home areas, rocky or rough terrain grass areas, and other fringe turf areas that are difficult to mow.

For turfgrasses, EMBARK E-Z-TU-USE PGR reduces mowing requirements for up to 4 weeks following treatment by regulating growth and suppressing seedhead formation.

For ornamentals, EMBARK E-Z-TU-USE PGR reduces pruning and trimming for up to 8 weeks by regulating growth and/or inhibiting flower formation.

**SPRAY EQUIPMENT and MIXING INSTRUCTIONS:**

The following spray equipment is recommended for:

**Turfgrasses:** Use conventional power spray equipment fitted with a spray boom, off-center nozzles, or handgun. Hose-end sprayers are appropriate for localized spot treatments or broadcast treatments on larger turfgrass areas. Handpump sprayers are suitable for edging or spot treatments.

**Ornamentals and Groundcovers:** Use a power sprayer equipped with hand-held or vehicular-mounted equipment that will deliver sufficient spray to penetrate dense foliage and provide thorough coverage of all parts of shrubs or plants.

**CALIBRATION:**

It is essential that 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.

**MIXING:**

Pour the required amount of EMBARK E-Z-TU-USE PGR into the spray tank containing approximately one-half the required amount of water. Fill the tank as required with water and spray as recommended. Minimal agitation in the spray tank is necessary since EMBARK E-Z-TU-USE PGR is soluble in water.

**SURFACTANTS:**

For low-maintenance turf and roadsides only, the use of a non-ionic surfactant is recommended to increase the extent and consistency of the growth regulation. The suggested surfactant rate is 0.25 to 0.50% v/v or 1 to 2 quarts per 100 gallons of finished spray solution. Temporary, slight discoloration of the turf may increase with the use of a surfactant.

**RINSING:**

Triple rinse the EMBARK E-Z-TU-USE 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.

**TURFGRASS APPLICATIONS USING CONVENTIONAL EQUIPMENT:**

EMBARC E-Z-TU-USE PGR applied to turfgrass reduces the mowing requirements and the clipping weights for up to 4 weeks after treatment.

**TIMING:**

Apply EMBARK E-Z-TU-USE PGR uniformly to green, actively growing grass. 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 two weeks prior to seedhead appearance).

**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.

**RATE RECOMMENDATIONS FOR TURFGRASS USING CONVENTIONAL EQUIPMENT**

| SPECIES  | AMOUNT OF EMBARK |                      |
|--|------------------|----------------------|
|  | PER ACRE         | PER 1000 SQUARE FEET |
| Kentucky and Annual Bluegrass<br>Tall, Red and Chewings Fescue<br>Perennial Ryegrass | 5 pints          | 1 3/4 fluid ounces   |
| St. Augustine Grass  | 10 pints         | 3 2/3 fluid ounces   |

**SPRAY VOLUMES:**

Apply EMBARK E-Z-TU-USE PGR with sufficient water for good coverage. Spray volumes of 15 to 150 gallons per acre or 3 gallons per 1000 square feet are recommended. Uniform application is essential. Avoid spray overlaps that will increase the dosage above those recommended.

**MULTIPLE APPLICATIONS:**

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 2 months 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).

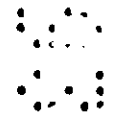
**TURF COLOR AND NITROGEN-IRON COMBINATIONS:**

Turf treated with EMBARK E-Z-TU-USE PGR may appear less dense and temporarily discolored when compared with untreated, actively-growing turf. However, with increasing time, turf may appear darker green than untreated areas.

The discoloration of grasses caused by EMBARK E-Z-TU-USE PGR may be reduced (masked) by the addition of FERROMECS® AC LIQUID IRON. The tank mixture of EMBARK E-Z-TU-USE PGR and FERROMECS AC applied with spray volumes greater than 90 gallons per acre (2 gallons per 1000 square feet) can maintain the turf color. Refer to the FERROMECS AC label for dosage rate recommendations.

**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 BROADLEAF HERBICIDE, SUPER TRIMEC BROADLEAF HERBICIDE, TRIMEC SOUTHERN BROADLEAF HERBICIDE, and other herbicides labeled 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.





**SEEDHEAD SUPPRESSION OF POA ANNUA IN COOL SEASON TURF:**

EMBARK E-Z-TU-USE PGR may be used for seedhead suppression of Poa annua in golf course fairways. Do not apply EMBARK E-Z-TU-USE PGR to golf greens. The effect of EMBARK E-Z-TU-USE PGR is dependent upon the timing and rate of application.

**TIMING:**

For seedhead suppression only, apply after uniform greenup but before the first appearance of seedheads. Applications after the first seedhead appearance will suppress seedheads which have not emerged. Seedheads that have emerged will not be controlled.

**RATE RECOMMENDATIONS FOR POA ANNUA SEEDHEAD SUPPRESSION**

| SPECIES   | AMOUNT OF EMBARK<br>PER ACRE | PER 1000 SQUARE FEET                 |
|---|------------------------------|--------------------------------------|
| Annual Bluegrass<br>( <u>Poa annua</u> )<br>Seedhead suppression only | 2 pints to 5 pints           | 0.7 fluid ounces to 1.8 fluid ounces |

**TURFGRASS APPLICATIONS USING HOSE-END SPRAYERS:**

Hose-end sprayers are suitable for localized spot treatments, edging, or broadcast treatments on larger turfgrass areas. When applied according to the application rates specified, EMBARK E-Z-TU-USE PGR will regulate the growth of the following turfgrasses.

- |                               |                     |
|-------------------------------|---------------------|
| Kentucky and Annual Bluegrass | Reed Canarygrass    |
| Tall, Red and Chewings Fescue | Kikuyugrass         |
| Perennial Ryegrass            | Centipede grass     |
| Timothy                       | St. Augustine grass |

**TIMING:**

Apply EMBARK E-Z-TU-USE PGR uniformly to green, actively growing grass. 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 two weeks prior to seedhead appearance).

**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 may 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. Management care should be continued on treated areas to promote a vigorous turf.



**RATE RECOMMENDATIONS AND SPRAY VOLUMES FOR HOSE-END SPRAYERS:**

Apply 1 3/4 to 3 2/3 fluid ounces of EMBARK E-Z-TU-USE per 1000 square feet with a hose-end sprayer delivering 7 TO 10 gallons of water per 1000 square feet for the eleven turfgrass species. To ensure good coverage, spray until grass is thoroughly wet down to the soil without drenching the soil. Avoid spray overlaps that will increase the dosage above those recommended. Refer to the quick mix table below for spray preparation with areas larger than 1000 square feet.

| Area To Treat<br>(Sq. Ft.) | Water Level of<br>Sprayer Container<br>(Gallons) | Amount EMBARK To Use |               |
|----------------------------|--|----------------------|---------------|
|                            |  | (Tbsp)               | (Fl. Oz.)     |
| 1000                       | 10   | 3 1/2 - 7 1/3        | 1 3/4 - 3 2/3 |
| 1400                       | 14   | 5 - 10 1/2           | 2 1/2 - 5 1/4 |
| 2000                       | 20   | 7 - 14 2/3           | 3 1/2 - 7 1/3 |
| 3000                       | 32   | 10 1/2 - 22          | 5 1/4 - 11    |

**MULTIPLE APPLICATIONS:**

EMBARK E-Z-TU-USE PGR may be applied more than once per season, however, wait at least 6 weeks between application. For fall application, apply at least 2 months 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).

**TURF COLOR:**

Turf treated with EMBARK E-Z-TU-USE PGR may appear less dense and temporarily discolored when compared with untreated, actively-growing turf. However, with increasing time, turf may appear darker green than untreated areas.

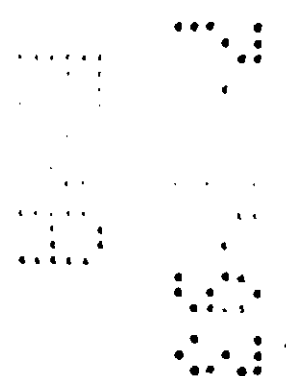
**EDGING WITH PUMP TYPE SPRAYERS:**

EMBARK E-Z-TU-USE PGR may be used for edging grass when uniformly applied with pump type sprayers. To reduce the mowing frequency of difficult or dangerous turfgrass areas, EMBARK E-Z-TU-USE PGR is recommended for use on the following areas: Out-of-the-way backyard areas, vacant lots, road and curbside grass, fenceline areas, steep banks, vacation home areas, rocky or rough terrain grass areas, and other fringe turf areas that are difficult to mow and where pristine, fine quality turf is not a priority.

**RATE RECOMMENDATIONS AND SPRAY VOLUMES:**

For Kentucky bluegrass, tall fescue, chewings fescue, red fescue, perennial ryegrass, and St. Augustine grass - Apply 4 fluid ounces of EMBARK E-Z-TU-USE PGR per 1000 square feet with a pump type sprayer delivering 4 gallons of water per 1000 square feet. This spray concentration can be applied in a 6 inch band for 2000 linear feet or a 12 inch band for 1000 linear feet. Refer to the spray preparation chart below for areas less than 1000 square feet.

For Bermudagrass, apply 16 fluid ounces of EMBARK E-Z-TU-USE PGR per 1000 square feet with a pump type sprayer delivering 4 gallons of water per 1000 square feet. This spray concentration can be applied in a 6 inch band for 2000 linear feet or a 12 inch band for 1000 linear feet. Refer to the spray preparation chart below for areas less than 1000 square feet.



For all species - Use a spray pattern that will give a uniform full coverage spray to the area indicated. Avoid spray overlaps that will increase dosage above those recommended.

| Species:                                       | Area To Be Sprayed (Sq.Ft.) | Amount of Water in Sprayer (Gallons) | Amount EMBARK To Use |         |
|--|-----------------------------|--------------------------------------|----------------------|---------|
|  |                             |                                      | (Fl.Oz)              | (Tbsp.) |
| Kentucky Bluegrass                             | 250                         | 1                                    | 1                    | 2       |
| Tall Fescue, Red                               | 500                         | 2                                    | 2                    | 4       |
| Fescue, Chewings                               | 750                         | 3                                    | 3                    | 6       |
| Fescue, Perennial Ryegrass, St. Augustinegrass | 1000                        | 4                                    | 4                    | 8       |
| Bennudagrass                                   | 250                         | 1                                    | 4                    | 8       |
|  | 500                         | 2                                    | 8                    | 16      |
|  | 750                         | 3                                    | 12                   | 24      |
|  | 1000                        | 4                                    | 16                   | 32      |

**MULTIPLE APPLICATIONS:**

EMBARK E-Z-TU-USE PGR may be applied more than once per season, however, wait at least 6 weeks between application. For fall application, apply at least 2 months 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).

**PLANT GROWTH REGULATOR TANK MIXTURES FOR TURFGRASS:**

Embark E-Z-TU-Use Plant Growth Regulator can be tank-mixed with Limit Turf Regulator, a flowable containing 4.0 pounds per gallon of the active ingredient amidochlor. This combination must be mixed, used, and applied according to the more restrictive label limitations and precautions. No label dosage rates should be exceeded. Specific instructions for the dosage rates, spray volumes, and application schedules are presented below.

**MIXING INSTRUCTIONS:**

Fill the spray tank with two-thirds of the required amount of water and begin agitation. First, add the Limit Turf Regulator and allow to disperse. Second, add the required amount of Embark E-Z-TU-Use Plant Growth Regulator and allow to disperse. Finally, add the balance of the required water volume and maintain agitation prior to and during the application. Apply the spray mixture on the same day of spray preparation. Dosage rate recommendations are as follows:

**Rate Recommendations for Turfgrass Using Conventional Equipment.**

| Species                        | Amount of Embark |                 | Amount of Limit |                  |
|--------------------------------|------------------|-----------------|-----------------|------------------|
|                                | Per Acre         | Per 1000 sq.ft. | Per Acre        | Per 1000 sq. ft. |
| Kentucky Bluegrass             | 64 fl.oz.        | 1.47 fl.oz.     | 32 fl.oz.       | 0.74 fl.oz.      |
| Perennial Ryegrass             | or               |                 | or              |                  |
| Tall, Red, and Chewings Fescue | 2.0 qts.         |                 | 1.0 quart.      |                  |

**SPRAY VOLUMES:**

Spray volumes of 15 to 150 gallons per acre will provide sufficient coverage, but spray volumes greater than 50 gallons per acre are recommended. Avoid excessive overlap, but ensure adequate coverage to avoid skips and streaking.

**APPLICATION SCHEDULES AND MANAGEMENT PRACTICES:**

For seedhead suppression and growth regulation in the Spring: Apply after spring green-up to actively growing grass prior to seedhead emergence. Applications should be made after the turfgrass has developed the desired appearance and has been mowed to the desired height.

For multiple applications to extend the turfgrass growth regulation: Observe a 6 to 8 week interval between applications. Do not exceed an annual total of 4.5 quarts of Limit per acre per year or an annual total of 3.3 fluid ounces of Limit per 1000 square feet per year.

**FALL APPLICATION:**

Apply this tank mixture at least 2 months prior to winter dormancy.

**IRRIGATION AFTER APPLICATION:**

For optimum results, treated areas require irrigation or rainfall 24 to 48 hours after application of at least 1/4 inch of water.

**LIMITATIONS OF THE EMBARK E-Z-TU-USE PLANT GROWTH REGULATOR AND LIMIT TURF REGULATOR COMBINATIONS:**

- \* Following treatment, avoid spray areas; keep animals and people off treated areas until foliage has dried.
- \* Do not apply to turf less than 1 year old.
- \* Do not apply to residential turf sites, schoolyards or playgrounds.
- \* Caution is advised in spraying around or over ornamentals and flowers.

**ORNAMENTALS**

EMBARK E-Z-TU-USE PGR may be applied to specified ornamentals and groundcover 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 coverage spray at pre-bloom: (tight bud stage) through the 5% bloom stage.

**SPRAY VOLUME:**

For ornamentals, apply EMBARK E-Z-TU-USE PGR to foliage as a full coverage spray to the point of runoff. Spray penetration of dense foliage and thorough coverage of all parts of shrubs, trees, and ornamentals are essential. The spray volume will vary according to tree/shrub size, but trees 20 to 30 in height will require 10 to 15 gallons of finished spray solution per tree.

## RATE RECOMMENDATIONS FOR TREES, SHRUBS, AND ORNAMENTALS

| Species                         | Amount of EMBARK E-Z-TU-USE PGR Per Gallon of Water |
|---------------------------------|---|
| Acacia                          | 6 1/2 Fl. Oz.                                       |
| Abelia                          |   |
| African Daisy                   |   |
| Algerian Ivy                    |   |
| Barberry                        |   |
| Bottlebrush                     |   |
| Bougainvillea                   |   |
| Boxwood ( <u>Buxus sp.</u> )    |   |
| Brazilian Pepper Tree           |   |
| Buford Holly                    |   |
| Capeweed                        |   |
| Carob                           |   |
| Crepe Myrtle                    |   |
| Elaeagnus                       |   |
| English Ivy                     |   |
| Euonymus                        |   |
| Ficus                           |   |
| Hibiscus                        |   |
| Holly ( <u>Ilex sp.</u> )       |   |
| Iceplant                        |   |
| Jasmine                         |   |
| Laurel                          |   |
| Melaleuca                       |   |
| Nandina                         |   |
| Oleander                        |   |
| Osmanthus                       |   |
| Photinia                        |   |
| Pittosporum                     |   |
| Podocarpus                      |   |
| Privet ( <u>Ligustrum sp.</u> ) |   |
| Pyracantha                      |   |
| Raphiolepis                     |   |
| Viburnum                        |   |
| Xylosma                         |   |
| Yaupon                          |   |

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Ornamental Olive Trees\* 1 1/2 Fl. Oz.

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\*For flower inhibition of olive trees, apply EMBARK E-Z-TU-USE PGR to foliage as a full coverage spray at pre-bloom (tight bud stage) through the 5% bloom stage.

## LIMITATIONS FOR TURFGRASS AND ORNAMENTALS:

EMBARK E-Z-TU-USE PGR should not be applied to golf greens. Do not use in areas where there is heavy foot traffic. Do not apply to stressed, diseased, or otherwise unhealthy grass. Do not apply to plants grown in containers. Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application. Do not wash foliage for at least 24 hours. If rain occurs within 8 hours, dilution of spray may occur. Avoid spray drift onto non-target foliage. Avoid drift onto food crops. Do not allow animals to graze on treated areas. 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 Calif. where reseeding may not occur within 2 weeks). 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.

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