

Embark® 3M

Stop! Read the label before using.

EPA Est. 07182-IL-01

EPA Reg. No. 7182-11-AA

Active Ingredient: Diethanolamine salt of mefluidide*
(N-[2,4-dimethyl-5-[[trifluoromethyl]sulfonyl]amino]phenyl]-acetamide) 15% **
Inert Ingredients: 85%
100%

*U.S. Patent Nos. 3,639,477; 3,113,444
**Equivalent to 1.0 lbs. (454 g) of N-[2,4-dimethyl-5-[[trifluoromethyl]sulfonyl]amino]phenyl]acetamide per gallon

CAUTION Keep out of reach of children Precautionary statements

Humans and Domestic Animals: Harmful if swallowed or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.
Environmental: Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of waste. Do not allow spray to drift onto nontarget crops or vegetation.

1 Gallon
Net Contents

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Directions For Use

General Information: It is a violation of federal law to use this product in a manner inconsistent with its labeling. EMBARK 1-S Plant Growth Regulator (PGR) is recommended for use in public, commercial, and industrial areas for regulating the growth of various species of turfgrasses and broadleaf vegetation. EMBARK 1-S PGR reduces mowing requirements for up to 8 weeks following treatment by regulating growth and suppressing seedhead formation. **Spray Equipment:** EMBARK 1-S PGR may be applied to localized areas with small spray units, such as backpack sprayers, or to larger areas with conventional spray equipment. To be assured of proper dosage and uniform spray coverage it is essential that spray equipment is properly calibrated. When calibrating with small spray equipment, a trial application is recommended over a small measured turf area.

Mixing: Pour the required amount of EMBARK 1-S 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 the 1-S formulation is soluble in water.

Rinsing: Triple rinse the EMBARK 1-S 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.

Storage and Disposal: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinse solution that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Container disposal - Triple rinse (or equivalent) and dispose in an incinerator or landfill.

Storage and Disposal: Approved for pest control. Consult federal, state or local approved alternative.

Recommended Application

Apply EMBARK 1-S PGR to turf. At the time of application, the height of growth regulator should be at least 2 weeks prior to the time of mowing. Seedhead formation can be reduced by 2 weeks prior to mowing. Turf may be cut 7 days after application. Leaves prior to treatment should be cut. Increase dosage as recommended. EMBARK 1-S PGR may be applied to grass, fescues, and other turf species. Use the high rate of application. Use the high rate of application.

Recommended Use: Apply uniformly as a broadcast application in public and commercial areas.

Commercial-Industrial: Rights-of-way, Ball Fields, Airports.

Public: Schools, Lodging, Courses, Parks, Home Lawns.

Tank Mixing with 2,4-D: EMBARK 1-S PGR may be tank mixed with 2,4-D or MCPA. Use the label directions for 2,4-D or MCPA. Do not use EMBARK 1-S PGR in conjunction with MCPA product label.

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EMBARCK 3M

Active ingredient: Diethanolamine salt of mefluidide*
 Methyl-5-[[trifluoromethylsulfonyl]amino]phenyl]— 15%
 Solvents 85%
 Total 100%

* Nos. 3 637 474 3 634 078 4 013 444
 Net 10 lbs (11.5 lb weight) of 2.4-D herb. 5 1/2 qt. container.
 Methylphenylacetamide per gallon.

Precautions for children

Avoid contact with skin. Avoid breathing spray mist. Avoid contact with skin with plenty of water. Get medical attention if irritation persists by touching back of throat with finger or blunt object. Do not get medical attention. Rinse water by cleaning of equipment or disposal of waste.

1 Gallon
 Net Contents

Directions For Use

General Information: It is a violation of federal law to use this product in a manner inconsistent with its labeling. EMBARK 1-S Plant Growth Regulator (PGR) is recommended for use in public, commercial, and industrial areas for regulating the growth of various species of turfgrasses and broadleaf vegetation. EMBARK 1-S PGR reduces mowing requirements for up to 8 weeks following treatment by regulating growth and suppressing seedhead formation.

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

Mixing: Pour the required amount of EMBARK 1-S 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 the 1-S formulation is soluble in water.

Rinsing: Triple rinse the EMBARK 1-S 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.

Storage and Disposal: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinse solution that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Container disposal - Triple rinse (or equivalent) and dispose in an incinerator or landfill.

Storage and Disposal (continued):

approved for pesticide containers, or bury in a safe place. Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

Recommended Application

Apply EMBARK 1-S PGR uniformly to green, actively growing turf. At the time of treatment, turf should be at the height which is desired to be maintained during the period of growth regulation. For season long seedhead suppression of cool season grasses apply no later than when the seedhead can be felt at the base of the stem. (Approximately 2 weeks prior to seedhead appearance.) Do not apply to closely mowed areas where most of the green growth has been cut. Turf may be mowed up to 1 day before or 3 to 7 days after application. Remove all grass clippings and leaves prior to treatment. Avoid spray overlaps that will increase dosage above those recommended. EMBARK 1-S PGR may be applied twice per season on Kentucky bluegrass, fescues, and Bermudagrass; however, an interval of at least 6 weeks should occur before the second application. Use the higher rate of application where the greatest growth regulation and seedhead suppression are desired.

Recommended Use Areas: EMBARK 1-S PGR applied uniformly as a broadcast spray to turf will reduce mowing requirements for up to 8 weeks in the following commercial and public areas:

Commercial-Industrial: Highway Rights-of-way, Utility Rights-of-way, Buildings, Industrial Parks, Tank Farms, Airports.

Public: Schools, Libraries, Hospitals, Cemeteries, Golf Courses, Parks, Roads and Walkways

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

Application Rate Table

Use on	Amount of
	per acre 15-150 gal. water
Turfgrasses: Kentucky and Annual Bluegrasses Tall, Red and Chewings Fescues Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Centipedegrass Kikuyugrass	2-4 pints
Crested Wheatgrass Orchardgrass Smooth Brome	3-4 pints
St Augustinegrass	2 pints
Common Bermudagrass	8 pints
California Native Grasses and Broadleaf Vegetation: Grasses: Wild Barley, Red Brome, Rippgut Brome, Wild Oats Broadleaves: Ice Plant, Algerian Ivy, Cheeseweed, Sour Clover, Fiddleneck, Redstem Filicee, Black Mustard	4-8 pints

Note: In comparison with untreated, actively growing turf, which is being maintained in height by EMBARK, appear less dense and temporarily discolored foliage. However, with increasing time, turf may appear as untreated areas.

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Storage and Disposal (continued): approved for pesticide containers, or bury in a safe place. Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

Recommended Application

Apply EMBARK 1-S PGR uniformly to green, actively growing turf. At the time of treatment, turf should be at the height which is desired to be maintained during the period of growth regulation. For season long seedhead suppression of cool season grasses apply no later than when the seedhead can be felt at the base of the stem. (Approximately 2 weeks prior to seedhead appearance.) Do not apply to closely mowed areas where most of the green growth has been cut. Turf may be mowed up to 1 day before or 3 to 7 days after application. Remove all grass clippings and leaves prior to treatment. Avoid spray overlaps that will increase dosage above those recommended. EMBARK 1-S PGR may be applied twice per season on Kentucky bluegrass, fescues, and Bermudagrass, however, an interval of at least 6 weeks should occur before the second application. Use the higher rate of application where the greatest growth regulation and seedhead suppression are desired.

Recommended Use Areas: EMBARK 1-S PGR applied uniformly as a broadcast spray to turf will reduce mowing requirements for up to 8 weeks in the following commercial and public areas:

Commercial-Industrial: Highway Rights-of-way, Utility Rights-of-way, Buildings, Industrial Parks, Tank Farms, Airports.

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Application Rate Table

Use on	Amount of EMBARK 1-S PGR	
	per acre in 15-150 gal. water	per 10,000 sq. ft. in 3-30 gal. water
Turfgrasses: Kentucky and Annual Bluegrasses Tall, Fed and Chewings Fescues Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Centipedegrass Kikuyugrass	2.4 pints	8-16 fl. oz.
Crested Wheatgrass Orchardgrass Smooth Brome	3.4 pints	12-16 fl. oz.
St. Augustinegrass	2 pints	8 fl. oz.
Common Bermudagrass	8 pints	32 fl. oz.
California Native Grasses and Broadleaf Vegetation: Grasses: Wild Barley, Red Brome, Ripgut Brome, Wild Oats Broadleaves: Ice Plant, Algenan l., Cheesehead, Sour Clover, Fiddleneck, Redstem Filaree, Black Mustard	4.8 pints	16-32 fl. oz.

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

Limitations: EMBARK 1-S PGR should not be applied to golf greens. Do not apply EMBARK 1-S PGR to turf area within 4 growing months after seeding and do not reseed within 2 weeks following application. Do not allow animals to graze on treated areas. Optimum results may not be obtained if rainfall or overhead irrigation occurs within 8 hours following application.

Notice - Limited Warranty: The Directions for Use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Permanent turf injury, ineffectiveness or other unintended consequences may result because of such factors as adverse weather conditions, presence of fertilizers or other pesticides, or use inconsistent with label directions, all of which are beyond the control of 3M or the Seller. All such risks shall be assumed by the Buyer.

3M warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. 3M makes no other expressed or implied Warranty of Fitness or Merchantability or any other expressed or implied warranty. In no case shall 3M or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. 3M and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of 3M.

EMBARK is a registered trademark of 3M.

Agricultural Products/3M
3M, St. Paul, MN 55144

law to use
labeling.
recommended
areas for
grasses and
mowing
treatment by
formation.
applied to
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EMBARK 1-S PGR into
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Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 7182-11