

PM 75 2217-759 17/37
"AFTER"

**EMBARK^(R) 2-8
PLANT GROWTH REGULATOR**

Reduces Frequency of Mowing and Trimming of Certain Grasses and
Ornamentals

Enhances the Performance of Certain Herbicides through Plant
Growth Regulating Effects on Specified Weeds in Soybeans.

ACTIVE INGREDIENT:

Diethanolamine salt of mefluidide*(N-[2,4-dimethyl-5-[[
(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide) 28.0%**

INERT INGREDIENTS 72.0%
TOTAL 100.00%

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

**Equivalent to 2.0 lbs. (21% by weight) (N-[2,4-dimethyl-5-[[
(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide) per
gallon.

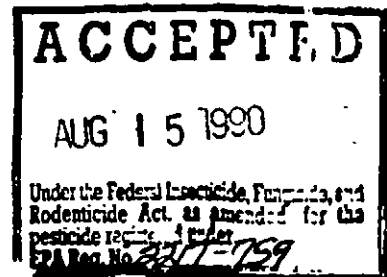
KEEP OUT OF REACH OF CHILDREN

CAUTION

See other panels for Precautionary Statements
and Statement of Practical Treatment

NET CONTENTS ONE GALLON

686/189 AP021484/122388
EPA REG. NO. 2217-759
EPA EST. NO. 2217-KS-2



Mfd. BY PBI/GORDON CORPORATION
KANSAS CITY, KANSAS 66118

STOP! READ THE LABEL BEFORE USING

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 by cleaning of equipment or disposal of wastes. Do not allow spray to drift onto non-target crops or vegetation.

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.

DIRECTIONS FOR USE

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

EMBARC 2-S Plant Growth Regulator (PGR) may be applied to various species of turfgrasses, ground cover, ornamental shrubs and trees in public, commercial, or industrial areas for reducing the frequency of mowing and trimming.

Do not apply this product through any type of irrigation system.

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 and Low Maintenance Grasses: 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 2-S PGR into the spray tank containing approximately $\frac{1}{4}$ 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 2-S 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 2-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.

TURFGRASS

RECOMMENDED APPLICATIONS - TURFGRASS

Recommended Use Areas:

EMBARK 2-S PGR may be applied to specified turfgrasses 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, condominiums, and apartment complexes.

Uncultivated Agricultural Areas: Around farm buildings, storage sheds, implement storage sheds, implement storage areas, and roadsides.

MOWING:

When mowing after application: For an evenly trimmed appearance grass may be mowed 3-7 days after EMBARK 2-S PGR is applied.

When mowing before application: Grass may be mowed up to two days before applying EMBARK 2-S 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 2-S PGR in the spring, after greenup, but before mowing is necessary, thus avoiding mowing until growth regulation wears off.

TANK MIXING WITH HERBICIDES:

EMBARK 2-S PGR may be tank mixed with one of the following herbicides to control broadleaf weeds:

HERBICIDE	MAXIMUM RATE
TRIMEC (R) Classic Broadleaf Herbicide	4 pints of product/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, Low Maintenance Grasses and Uncultivated Agricultural Areas:

Maximum benefits, including season-long seedhead suppression of cool-season grasses, can be attained by applying 2 pints/acre of EMBARK 2-S PGR with surfactant after uniform grass greenup until approximately 2 weeks before seedhead appearance. EMBARK 2-S PGR applications will give vegetative growth suppression for up to 8 weeks, however, a mowing will be necessary to eliminate escape seedheads which have not emerged. If temporary discoloration of turf occurs and is objectionable, reduce the 2 pint rate to 1½ pints/acre. 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, Citowett (R), or Surfactant WK (R) (except Calif.) is recommended to increase the extent and consistency of turfgrass regulation on roadside and low maintenance turf only. The recommended surfactant rate is 0.25 to 0.5% V/V (1 to 2 quarts/100 gallons finished spray solution). Temporary, slight discoloration of turf may increase with the use of a surfactant.

Limitations on Turfgrass:

Do not apply EMBARK 2-S 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 2-S 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.

APPLICATION RATE TABLE

- TURFGRASS -

Recommendations:

EMBARK 2-S PGR, applied to turfgrass, reduces mowing requirements for 6 weeks following treatment by regulating growth and preventing seedhead formation. Apply EMBARK 2-S 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 2-S 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 2-S PGR may be reseeded 3 days following application (except Calif. where reseeding may not occur within 2 weeks).

Species:	Recommended Rate of EMBARK 2-S PGR		Remarks
	per acre in 15-150 gal water*	per 1000 sq. ft.*	
Annual Bluegrass** (<u>Poa annua</u>) (seed- head suppression only)	1/2 pint	1/5 fl oz	<u>For seedhead suppression only</u> apply after uniform greenup but before the first appearance of seedheads. Applications after first seed- head appearance will suppress seedheads which have not emerged.
Kentucky & Annual Bluegrass Tall, Red, and Chewings Fescues Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Kikuyugrass Crested Wheatgrass** Orchardgrass**	1½ pints	3/5 fl oz	For those grasses recommended at 1½ pint rate a slightly longer period of growth regulation can be attained with a 2 pint/acre rate. If temporary dis- coloration of turf occurs & is

Smooth Bromegrass** Centipedegrass			objectionable reduce the 1½ pint rate to 1 pint/acre.
St. Augustinegrass	1 pint	2/5 fl oz	
Common Bermudagrass	4 pints	1½ fl oz	

CALIFORNIA USE ONLY

Kentucky & Annual Bluegrass Tall, Red & Chewings Fescue Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Centipedegrass Kikuyugrass	1½ pints	3/5 fl oz	For grasses recom- mended at the 1½ pint rate, reduce the rate to 1 pt/ acre if temporary discoloration of turf occurs and is objectionable. In turfgrass ren- ovation programs, areas treated with EMBARK 2-S
St. Augustinegrass PGR	1 pint	2/5 fl oz	may be reseeded 2 weeks following application.
Common Bermudagrass	4 pints	1½ fl oz	
<u>Native Grasses & Broadleaf Vegetation Grasses:</u> Wild Barley, Red Brome, Ripgut Brome, Wild Oats <u>Broadleaves:</u> Cheeseweed, Sour Clover, Fiddleneck, Redstem Filaree, Black Mustard	2 pints	4/5 fl oz	For native grass and broadleaf veg- etation, areas with high soil fertility may re- quire up to 4 pints/acre.

*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 and Groundcovers

Recommended Use-Areas:

EMBARK 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, condominiums, office and apartment complexes.

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 within 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 PGR on ornamentals, thoroughly clean spray tank to remove any broadleaf herbicide that may be present.

APPLICATION RATE TABLE

ORNAMENTALS AND GROUNDCOVERS

Recommendations:

EMBARK 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 regulation growth.

 Recommended Rate of EMBARK 2-S PGR
 for Ornamentals Throughout the U.S.

Species:	per 100 gals. water	per gal. water	Remarks

Groundcover:			
African Daisy	4 pints	2/3 fl oz	For growth regulation, apply EMBARK PGR as a full coverage spray to runoff and foliage penetration. Applications should be made to healthy actively growing plants 7-14 days after pruning or trimming. Once the plant resumes active growth, pruning and repeat applications may be made.
Capeweed			
Iceplant			
Ivy, English			
Ivy, Algerian			
Shrubs & Trees:			
Acacia			
Bottlebrush			
Brazilian Pepper Tree			
Carob			
Ficus			
Hibiscus			
Holly, Burford			
Holly, Japanese*			
Ligustrum, Japanese			
Melaleuca			
Oleander			
Photinia			
Pittosporum			
Podocarpus			
Privet			
(Ligustrum sp.)			
Pyracantha			
Raphiolepis			
Viburnum			
Xylosma			

Ornamental Olive Trees	1 pint	1/6 fl oz	For flower inhibition of olive trees, apply EMBARK PGR to foliage as a full coverage spray to run-off at pre-bloom (tight bud stage) through the 5% bloom stage. Trees 20-30 ft in ht will require 10-15 gals of finished spray solution per tree.

* except California

LIMITED WARRANTY: Manufacturer warrants that the chemical composition conforms to the ingredient statement given on the label and that this product is suited for the labeled use when applied according to label directions. Because of widely varying use conditions, it is impossible to eliminate all risks even when label directions are followed.

Exclusion of Other Warranties and Remedies. Except where such disclaimers and exclusions are specifically prohibited by applicable law. THE FOREGOING IS THE ONLY GUARANTEE OR WARRANTY APPLICABLE TO THIS PRODUCT AND IS GIVEN EXPRESSLY AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ALL SUCH WARRANTIES WHICH EXCEED OR DIFFER FROM SAID LIMITED WARRANTY ARE DISCLAIMED BY MANUFACTURER, and, upon Manufacturer's compliance with said limited warranty, BUYER SHALL HAVE NO REMEDY AGAINST MANUFACTURER FOR ANY TYPE OF DAMAGE OR LOSS, and, IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL DAMAGE OR LOSS.

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