REASON TO ISSUE: Propose revision of registered label Date of Pre-Reg. Draft: 10-11-05text in accordance with: (1) CDFA requirements; (2) PR Notice 83-3.

EMBARK® E-Z-TU-USE

This enclosure is the complete label text

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PLANT GROWTH REGULATOR (PGR)

Reduces Prequency of Boying and Trimming on Certain Grasses and Ornamentals

STOP!

ACTIVE INGREDIENT:

READ THE LABEL BEFORE USING

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

EPA Est.

NET CONTENTS: 1 Gallon

EPA Reg. No. 7182-16

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

**Equivalent to 0.2 lbs. (2.1% by weight) of N[2,4-dimethyl-5-[[(trifluoromethyl)-sulfonyl]amino]phenyl]acetamide per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

BUBANS AND DOBESTIC ANIMALS:
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.

ENYIRONMENTAL:
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:
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.

NOTE: Underlined letters in chemical nomenclature should be italicized when printed, not underlined.

ACCEPTED

OCT 2 8 1983

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

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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.

DIRECTION FOR USE

GENERAL INFORMATION: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EMBARK E-2-TU-USE Plant Growth Regulator (PGR) is recommended for requiating the growth of various species of turfgrasses, broadleaf vegetation, and ornamentals in public, commercial, and industrial areas.

MIXING:
Pour the required amount of EMBARK 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
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 manufacturers directions for cleaning, adjusting pressure and selecting appropriate nozzles.

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

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TURFGRASSES

RECOMMENDED APPLICATIONS-TUREGRASSES

RECOMMENDED USE AREAS:
EMBARK FGR 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 moving after application: for an evenly trimmed appearance grass may be moved 3-7 days after EMBARK PGR is applied.
When moving before application: grass may be moved up to two days before applying EMBARK PGR. Clippings and other debris should be removed before spraying. If moving removes most of the green leaf tissue, spraying should be delayed until sufficient new growth develops to assure product absorption into green leaves.
When moving is not desired or practical: apply EMBARK PGR in the spring, after greenup, but before moving is necessary, thus, avoiding mowing until growth regulation wears off.

Tank mixing with herbicides:
EMBARK PGR may be tank mixed with one of the following herbicides to control broadleaf weeds:

BERBICIDE MAXIMUM RATE

ROADSIDE AND LOW MAINTENANCE TURE:
Maximum benefits, including season long seedhead suppression of coolseason grasses, can be attained by applying 1 7/8 to 2 1/2 gallons/acre of EMBARK 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 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, Citowett⁵, X-77°, GROUNDMASTER SWA or WK⁵ (except Calif.) is recommended to increase the extent and consistency of turfgrass regulation on roadside and low maintenance turf only. The surfactant rate is recordended 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.

LIBITATIONS:
Do not apply EMBARK 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 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:

TURFGRASSES

Recommendations:
EMBARK PGR, applied to turfgrasses, reduces mowing requirements for up to 8 weeks following treatment by regulating growth and preventing seedhead formation. Apply EMBARK 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 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 PGR may be reseeded 3 days following application (except Calif. where reseeding may not occur within 2 weeks).

	RECOMMENDED RATE		
	PER ACRE IN	PER 1000 SQ. FT.	
SPECIES:	15-150 GAL, WATER*	IN 3 GALLONS WATER	REMARKS
Annual Bluegrass** (Poa annua) (seedhead suppression)	2 1/2 quarts	2 fl. oz.	For seedhead suppression only apply after uniform greenup but before the first appearance of seedheads. Applications after first seedhead appearance will suppress seedheads which have not emerged.

APPLICATION R	ATE TABLE:	(CONTINUED)
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	RECOMMENDED RATE		
SPECIES:	PER ACRE IN 15-150 GAL. WATER*	PER 1000 SQ. FT. IN 3 GALLONS WATER	REMARKS
Kentucky and Annual Bluegrass Fall, Red and Chewings Pescue Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Kikuyugrass Crested Wheatgrass** Orchardgrass** Smooth Bromegrass**	1 7/8 gallons	6 fl. oz.	For those grasses recommended at the 1 7/8 gallons rate a slightly longer period of growth regulation can be attained with a 2 1 gallon/acre rate. If temporary discoloration of turf occurs and is objectionable reduce the 1 7/8 gallon rato 1 1/4 gallon/acr
St. Augustinegrass	1 1/4 gallon	4 fl. oz.	
Common Bermudagrass	5 gallons	15 fl. oz.	
CALIFORNIA USE ONLY	L	<u> </u>	
Kentucky and Annual Bluegrass Tall, Red and Chewings Fescue Perennial Ryegrass Timothy Reed Canarygrass Quackgrass Certipedegrass Kikuyugrass	1 7/8 gallons	6 fl. oz.	For grasses re- commended 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 turfgrass reno- vation programs, areas treated with EMBARK PGR may be reseeded 2 weeks following applic- ation.
St. Augustinegrass	l i/4 gallon	4 fl. oz.	
Common Bermudagrass	5 gallons	15 £1. oz.	
NATIVE GRASSES AND BROADLEAP VEGETATION Grasses: Wild Barley, Red Brome, Ripgut Brome, Wild Oats Broadleayes: Cheeseweed, Sour Clover, Fiddleneck, Redstem Filaree, Black Mustard	2 1/2 gallons	8 fl. oz.	For native grasses and broadleaf veg- etation, areas with high soil fertility may require up to 5 gallons/acre.

**Except California.

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ORNABENTALS

RECOMMENDED APPLICATIONS -ORNAMENTALS

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.

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, clution of spray may occur. De 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

Recommendations: EMBARK PGR applied as a full coverage spray to specified ornamental shrubs, ledges, trees and groundcover reduces trimming and pruning for up to 12 weeks by regulating growth.

	RECOMMENDED RATE PER 100 GALS.	OF EMBARK PGR PER GAL.	
SPECIES:	WATER	WATER	REMARKS
Ligustrum, Japanese Pyracantha English Ivy Burford Holly Japanese Holly (except	5 gallons Calif.)	6 1/2 fl. oz.	For growth regul- ation, apply EMBARK PGR as a full coverage spray to runoff and foliage penetration. Applic- ations should be made to healthy, actively growing plants 7-14 days after pruning or trimming. Once the plant resumes active growth, prun- ing and repeat applications may be made.
Ornamentals California Use Only Groundsoyer: African Daisy Capeweed Iceplant Ivy, English and Algeri Shrubs and Tress: Acacia Bottlebrush Brazilian Pepper Tree Carob Picus Sibiscus	5 gallens an	6 1/2 fl. oz.	

APPLICATION RATE TABLE: (CONTINUED)

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	RECOMMENDED RATE		
SPECIES:	PER 100 GALS. WATER	PER GAL. WATER	REMARKS
Burford Holly Melaleuca Oleander Photinia Pittosporum Podocarpus Privet (Ligustrum sp.) Pyracantha Rhaphiolepis Viburnum Xylosma	5 gallons	6 1/2 fl. oz.	(continued from previous page)
Ornamental Olive Trees	1 1/4 gallon	1 2/3 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 to 30 ft. in height will require 10 to 15 gallons of finished spray solution per tree.

NOTICE - LIBITED 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 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. 1M 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.

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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.
Citowett is a registered trademark of BASF, AG.
Surfactant WK is a product of E.I. DuPont de Nemours and Company (Inc.).
X-77 is a product of Chevron Chemical Company.
TRINEC is a registered trademark of P.B.I. - Gordon Corporation.
APOLLO 445, SELECT-TROL and GROUNDSMASTER SWA are the trademarks of National Chemsearch.

AGRICULTURAL PRODUCTS/3M 3M Center, St. Paul, MN 55144

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