Please read Instructions on reverse before completing form.

Please read instructions on reverse before completing form.	Form Approved. OMB No. 2	070-0060, Approval expires11-30-93
(A) United States Environmental		OPP Identifier Number
Office of Pesticide Progra Washington, DC	IIII (U12020)	
Washington, DC Application for		Werr   193330
	· · · · · · · · · · · · · · · · · · ·	
Secti		IO Brancad Classification
1. Company/Product Number	2. EPA Product Manager	3. Proposed Classification
45639-68 4. Comparity/Product (Naniš)	Joanne Miller	X None . Restricted
in the second of		A The state of the
PROGRASS EC 10 100 100 7014		• • •
5. Name and Address of Applicant (Include ZIP Code)	6. Expedited Review. In accorda (b)(i), my product is similar or identification.	
NOR-AM Chemical Company	to:	icat to composition and labeling
Little Falls Centre One		
2711 Centerville Road	EPA Reg. No.	S 4 65 6
Wilming Check if this is a 980 Backess	Product Name	in Property of the Section of the S
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and the second s		
Amendment - Explain below	Final printed labels in response t Agency letter dated	
Resubmission in response to Agency letter dated	"Me Too" Application.	
Notification - Explain below.	Other - explain below.	. •
Explanation: Use additional page(s) if necessary. (For section I	and Section II.)	· · · · · · · · · · · · · · · · · · ·
	NOTIF	1C
Notification: Compliance with PR Noti	ce 93-3 LABEL NO.	NOTICE NO.4
<u> </u>		11/93
BEST AVAILABI	TE GODA DVIE	
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Section	III	*
Material This Product Will Be Packaged in:		e de la companya del companya de la companya del companya de la co
Child-Resistant Packaging Unit Packaging V	Water Soluble Packaging 2. Type of	Container
Yes* Yes	Yes	Metal 4
No S with a six	No see a	Plastic Glass
If "Yes," No, per , I	f "Yes," No. per	Paper
I	ackage wgt. container	Other (Specify)
submitted.	ese to see the see	
3. Location of Net Contents Information 4. Size(s) of Re	On table	
Label 4 68 Container 21 July V 1991 93 993	in 6 0 ອະດາພາມລາ ເຂົ້າໜ້າ 🔃 On Label	ng accompanying product 15/2016
6. Manner In Which Label Is Affixed To Product Paper of	incl (H) of (H) Other (	<u> </u>
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CONTA Control of the second of the Section		100 3
Contact Point (Complete items directly below for identification of Name  Title		Telephone No. (Include Area Code)
Richard R. Stevens	Registration Project ( )	Compliante No., (Include Area Code)
LANGER MICHAEL IN THE MICHAEL A	Manager Manager	02-892-3034
Certification	PROBLEM TO THE RESIDENCE OF THE PROPERTY OF TH	6. Date Application
I certify that the statements I have made on this form and all atta	chments thereto are true, accurate and compl	ete. Received
I acknowledge that any knowingly false or misleading statemen both under applicable law.	t may be punishable by fine or imprisonment	or (Stamped)
2. Signature		
1) (Afrend / X Joson un Re		, , O
	egistration Project Manager	
4 Typed Name		3 2 2 3
4. Typed Name  Richard R. Stevens	Date  6/3/92	

June 2, 1993

Attn: Ms. Joanne I. Miller, PM (23), RD Document Processing Desk
Office of Pesticide Programs - H7505C
U. S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

**NOR-AM Chemical Company** 

3509 Silverside Road P.O. Box 7495 • Wilmington, DE 19803 Telephone. (302) 477-3000 Telefax: (302) 477-3013

Subject:

**PROGRASS EC** 

Sevens

EPA Reg. No. 45639-68

Notification of Compliance with PR Notice 93-3

Dear Ms. Miller:

NOR-AM Chemical Company hereby makes notification to the Agency of insertion of the newly revised water/wetlands statement and replacement of the previous statement in the Environmental Hazards section of the PROGRASS EC label. This action is to comply with the label changes required by PR NOTICE 93-3, and is in accordance with the notification procedure promulgated in PR NOTICE 88-6 and 40 CFR 152.46.

In support of this notification, I enclose a completed EPA Ford 8570-1 and five (5) copies of the revised labeling.

If you have any questions concerning this action, please contact me at this office, telephone (302) 892-3034.

Sincerely,

Richard R. Stevens

Registration Project Manager

RRS:mab 8393.rrs

NOTIFICATION LANGE, NOT REVIEWED PAR PRI NOTICE SELECTION 193

# Prograss

# **EMULSIFIABLE CONCENTRATE**

Selective Herbicide For Use By Professional Applicators On Ornamental Turf Only

#### **ACTIVE INGREDIENTS:**

Ethofumesate: (2-ethoxy-2, 3-d hydro-3, 3-d methyl-5-benzofuranyl methanesulfonate;\*

19°° 81°°

**INERT INGREDIENTS:** 

TOTAL 100°

This product contains 1.5 lb active ingredient per gallon

EPA Reg. No. 45639-68

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

# KEEP OUT OF REACH OF CHILDREN **DANGER**



CORROSIVE, CAUSES EYE DAMAGE
WEAR GOGGLES OR FACE SHIELD WHEN HANDLING

## STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Drink promptly a large guaratity of milk ledge Allstes, debations that an orient lesselve in a content of the second and the second at the second and the s

IF ON SKIN: Flush addressing of water for at least 15 minutes.

IF IN EYES: there is at 1, floring this leady of scatter for at least 15 monitos. Calliag by them.

DO NOT REUSE EMPTY CONTAINER



SPECIALTY PRODUCTS DIVISIONAL Limb Fork Control Color 2711 Centerville Rand Wilmington DE 100 CP

#### **NET CONTENTS:**

The Code, US Chart, 369-57, 1614-57, 4-5

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes eye damage. Do not get in eyes. Wear goggles or face shield when handling. Harmful if absorbed through skin. Avoid contact with skin.

First Aid—In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Get medical attention if skin irritation persists. Remove and wash contaminated clothing before reuse.

Environmental Hazards—"For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark." Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards—Do not use, pour, spill or store near heat or open flames.

#### STORAGE AND DISPOSAL

STORAGE: Store in a cool place above 34°F.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

IN CASE OF FIRE, LEAKY, OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO: 800-424-9300.

#### **GENERAL INFORMATION**

PROGRASS® is an emulsifiable formulation containing 1.5 lbs. active ingredient per U.S. gallon for use on established perennial ryegrass, Kentucky Bluegrass, creeping bentgrass, turf-type tall rescue, St. Augustine grass, and dormant bermudagrass for the control and/or suppression of specific annual grasses and broadle-af weeds. It may also be used, as directed, after overseeding specific grasses.

PHOGRASS is intended for professional use only on the ornamental turf of sites such as golf courses, sod farms, parks, cemeteries, lawns of commercial establishments and homeowner lawns (see **Use Precau**tions below).

PROGRASS has both preemergent and early (two-leaf stage) postemergent activity; it is used most effectively in programs emphasizing both approaches.

## WEED SPECIES CONTROLLED PREEMERGENCE

Annual Grasses	<del></del>
Annual bluegrass	Poa annua
Large crabgrass	Digitaria sanguinalis
Barnyardgrass	Echinochloa crus-galli
Green foxtail	Setaria viridis
Yellow foxtail	Setaria glauca
Canarygrass	Phalaris canariensis
Annuai Broadleaves	
Burclover	Medicago so.
Common chickweed	Stellaria media
Common purslane	Portulaca oleracea
Redroot pigweed	Amaranthus retroflexus
PROGRASS will also reduce on	
Yellow nutsedge	Cyperus esculentus
Purple nutsedge	Cyperus rolundus
POSTEMERO	ENCE
Annual Grasses	_
Annual bluegrass	Poa annua
Annual Broadleaves	
Common chickweed	Stellaria media
White clover	Trifolium repens
PREEMERGENCE/EARLY Annual Grasses	POSTEMERGENCE
Smooth crabgrass	Digitaria ischaemum
Silkouli Gabyrass	Digitalia ischaemum

#### **USE PRECAUTIONS**

- PROGRASS should be used only for recommended purposes and at the recommended rates (DO NOT OVERTREAT).
- Avoid overlapping when spraying since turf injury may result.
- Avoid applications with flood jet nozzles and hand-held sprayers, since treatments may not be uniform.
- Do not apply this product through any type of irrigation system.
- > PROGRASS application is most effective on healthy, vigorously growing turf. A soil farility test is the best method to determine farility needs prior to PROGRASS treatment.
- PROGRASS may be applied to homeowner lawns by licensed or certified applicators. PRO-GRASS is not intended for use by homeowners.
- When overseeding, use the rate of PROGRASS recommended for the overseeded specica, in mixed stands of established turfgrasses, use the rate recommended for the least tolerant species.
- > Do not apply PROGRASS within 8 weeks following the application of a Plant Growth Regulator.
- PROGRASS application is recommended for golf course fairways, roughs, and tees but at fairway-height only. Do not apply on greens.
- Do not apply PROGRASS to zoyslagrass and hard or fine fescue; serious injury may result.

#### **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not graze live-stock on treated turf. Do not feed treated grass clippings to livestock. Read entire Use Precautions, Directions for Use, and Disclaimer of Warranties before using this product.

#### SPRAY EQUIPMENT, APPLICATION, AND PRE-CAUTIONS

Apply PROGRASS using standard, low pressure (20–50 psi) spray equipment. Spray equipment should be carefully calibrated before use and checked frequently during application. Addition of a spray indicator may improve treatment uniformity. The tank and line should be cleaned and rinsed *before* and *after* using PROGRASS.

#### **VARIETAL TOLERANCE**

The following turfgrass cultivars have shown tolerance to PROGRASS; however, all species and varieties have not been tested. PROGRASS has been used safely on the following turfgrass cultivars, but its use is not strictly limited to these. Before large scale use of PROGRASS on other cultivars, a tolerance test on a small area is recommended.

- ➤ PERENNIAL RYEGRASS—Acclaim, Blazer, Dasker, Derby, Elka, Fiesta, Goalie, Hunter, Linn, Loretta, Manhattan II, Palmer, Pennfine, Regal, Yorktown
- KENTUCKY BLUEGRASS—Adelphi, American, Aspen, Asset, Challenger, Classic, Emundi, Huntsville, Georgetown, Glade, Haga, Julic, Liberty, Merit, Midnight, Monopoly, Mystic, Parade, Rugby, Sydsport, Touchdown, P-104, Ba 69–82
- ➤ CREEPING BENTGRASS—Carmen, National, Normarc 101, Penncross, Providence, Putter, Tamu 88-1, 88 CBE, and 88 CBL have shown excellent tolerance to PROGRASS. Injury has been noted on Penneagle and Pennlinks occasionally. PROGRASS may cause serious injury to Cohansey, Colonial and south German varieties.
- > TURF-TYPE TALL FESCUE—America, Arid, Mustang
- > ST. AUGUSTINE GRASS—Raleigh
- DORMANT BERMUDAGRASS—common, Tifgreen, Tidwarf

### RECOMMENDATIONS

#### I. COOL SEASON GRASSES

Fall applications to cool season grasses to control Poa annua are most effective if application is initiated during the period of maximum weed germination and ended as close to the first killing freeze as possible. Spring applications may be made during the period of maximum weed germination. Consult the university extension service or weed science specialist for these dates in your locality.

SEE CHART FOR USE RATES AND TIMINGS. READ TEXT BELOW FOR SPECIFIC RECOMMENDATIONS FOR EACH TYPE OF GRASS!

#### IL PERENNIAL RYEGRASS

Application to perennial ryegrass in early to mid-fall or mid-spring is recommended during the primary period of annual bluegrass germination in early fall or late spring, and up to 30 days after annual bluegrass emergence. Spring applications should be used in conjunction with a fall application. Consult Extension Service or University weed specialists for date(s) annual bluegrass germinates in your area.

When overseeding with perennial ryegrass, apply PROGRASS to the seeded area 1 to 2 weeks after emergence of the ryegrass seedlings, when the seedlings are approximately 1" tall or after the first cutting. For overseeding, the soil should be prepared according to recommended horticultural practice. Remove or thoroughly work thatch, as it can reduce the effectiveness of the PROGRASS treatment. Delay application of straw or other mulch until after PROGRASS application. Application to overseeded perennial ryegrass in the fall or spring will also reduce competition from selected broadleaf weeds and crabgrass.

#### **III. KENTUCKY BLUEGRASS**

Apply PROGRASS to bluegrass not less than 8 weeks after germination. Bluegrass overseeded with ryegrass may be treated one to two weeks after ryegrass emergence.

Do not re-seed with Kentucky Bluegrass until six (6) weeks after the **last** PROGRASS application. For fall application programs of PRCGRASS, alternatives are to seed dormant bluegrass in the late fall or to delay re-seeding until the spring.

#### **IV. CREEPING BENTGRASS**

For golf course use, PROGRASS may be applied safely to bentgrass cut at fairway height. Well-drained bentgrass sites are less prone to injury; application to poorly drained sites, even those cut at fairway height, may result in bentgrass injury.

A spring application of PROGRASS following fall applications is useful in further reducing populations of annual bluegrass. The application should follow a spring overseeding program and should occur no sarlier than three to four weeks after overseeding with creeping bentgrass.

Do not apply PROGRASS to renovated or overseeded bentgrass fairway turf less than three-four weeks after seedling emergence.

Do not overseed with creeping bentgrass until three (3)\* to four (4) weeks after the last PROGRASS application.

#### V. TURF-TYPE TALL FESCUE

Apply PROGRASS to turf-type tall fescue, the fall. If turf is overseeded with turf-type tall fescue, the initial PROGRASS application and the seeding may be simultaneous.

# VL ST. AUGUSTINE GRASS (ESTADLISHED TURF)

Apply PROGRASS to St. Augustine grass in the spring and early summer to suppress Bermudagrass seed-head formation or control annual bluegrass. Best results are achieved if three applications are made.

Make the initial application after Bermudagrass dormancy is broken. St. Augustinegrass sod that has been recently harvested may show increased sensitivity to PROGRASS. Therefore, use the lower rate (1 gal/A) until the sod is established.

PROGRASS also suppresses the development of actively-growing Bermudagrass in established St. Augustine grass sod. Multiple, sequential applications are suggested for the longest suppression. Growth of Bermudagrass may resume after application is discontinued.

#### VII. OVERSEEDED DORMANT BERMUDA-GRASS

Apply PROGRASS to dormant bermudagrass in the fall one to two weeks after emergence of overseeded perennial ryegrass to control annual bluegrass. Treatment to turf that is not fully dormant may cause injury. One or two supplemental applications at 21 to 28 day intervals may be required to maintain control through the winter months. The final PROGRASS application should be made to bermudagrass prior to the breaking of winter dormancy. Late applications to turf that has broken dor-

mancy may temporarily delay resumption of active / growth of bermudagrass in the spring. The breaking of winter dormancy will vary according to location and yearly weather.

#### IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, discisimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAMMER OF WARRANTIES: THERE ARE NO WARRANTIES, EX-

PRESS OR IMPLIED, OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

© NOR-AM Chemical Company, 1991

#### **RECOMMENDED RATES AND TIMINGS<sup>1</sup>**

Turf Type Main 1		lain Terget Peets Start		Sman	U	e Rate <sup>2</sup>	Overseeding Safety intervals
	Main Target Pests		# Apps	Spray INT (Days)	Gal/Acre	Oz/1000sq. Ft	(Weeks After Emergence)
Ryegrass (Est. Turf)	Annual Bluegrass & Common Chickweed	Fall Spring <sup>4</sup>	2–3 1–2*	21-28 —	35-115	2-4	1–2
Ryegrass (New Seedlings) (Sendy Sols)	Annual Bluegrass & Common Chickweed	Fall	2-3	21–28	1	3	
Ryegrass (New Seedlings) (Sit or Clay Loam Soils)	Annual Bluegrass & Common Chickweed	Fall	2-3	21-28	11/3	4	
Kentucky Bluegrass	Annual Bluegrass	Fall	2–3	21-28	1/2	11/6	6
Creeping Bentgrass	Annual Bluegrass	Fall Spring*	2-3 1	21-28	% %	11/4	3-4
Turl-Type Tall Fescue	Annual Bluegrass	Fall	2-3	21-28	<del>%</del> -1%	2-4	0
St. Augustine Grass (Est. Turl)	Bermudagrass Supression & Seedhead Suppression	Spring	1–3	21-28	1-2	3–6	N/A
Overseeded Dormant Bermudagrass	Annual Bluegraas, Common Chickweed	Fall	2-3	21-28	%-1%	11/4-4	• • • • • • • • • • • • • • • • • • •
<sup>2</sup> Apply ½ to 2 gallone of PRO Minlerval applies to overseedi "Use Spring application after	Instructions regarding each grass GRASS in 20 to 60 gallons of we g specific grass on same type of previous fall treatments only with nyegrass, use 1-2 application	der or 1½ to 6 grass after Pi	ROGRASS		1 to 3 gallons	of water	