


PM 23

45637-62

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Please read instructions on reverse before completing form.

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

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  161113
	Application for Pesticide:		

## Section I

1. Company/Product Number 45639-62	2. EPA Product Manager J. I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PROGRASS® Flowable	PME (23)	
5. Name and Address of Applicant (Include ZIP Code) NOR-AM Chemical Company Little Falls Centre One 2711 Centerville Road Wilmington, DE 19808  <input checked="" 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:  EPA Reg. No. _____ 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: Compliance with PR Notice 93-3

**BEST AVAILABLE COPY****NOTIFICATION  
LABEL NOT REVIEWED  
PER PR NOTICE 93-3**DATE 7/1/93

## Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container 1 gal.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label Is Affixed To Product. <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other (Sleeve label with DPU attached)			

## Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Kenneth W. Chisholm		Title Registration Project Manager	
		Telephone No. (Include Area Code) (302) 892-1039	
<b>Certification</b> 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 or both under applicable law.			
2. Signature <i>Kenneth Chisholm</i>		3. Title Registration Project Manager	
4. Typed Name Kenneth W. Chisholm		5. Date June 15, 1993	
6. Date Application Received (Stamped)			

# SPECIMEN LABEL

0 9 4  
NOTIFICATION  
LABEL NOT REVIEWED  
PER PR NOTICE 88-8  
DATE. 7/1/93

# Prograss Flowable

Selective Herbicide for Use by Professional  
Applicators on Ornamental Turf Only

## ACTIVE INGREDIENT:

Ethofumesate (2-ethoxy-2,3-dihydro-3,3-dimethyl-  
5-benzofuranylmethanesulfonate)

Percent by Weight

42%

## INERT INGREDIENTS:

58%

TOTAL

100%

Trade Name: Prograss Flowable

The product is a selective herbicide for use on ornamental turf.

EPA Reg. No. 45639-62

EPA Est. No. 1812-GA-03

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

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Keep out of reach of children and pets.

SEE BACK PANEL FOR ADDITIONAL FIRST AID AND PRECAUTIONARY STATEMENTS

**NOR-AM**

100% Ethofumesate

100% Ethofumesate  
100% Ethofumesate  
100% Ethofumesate  
100% Ethofumesate

NET CONTENTS  
GALLON

BEST AVAILABLE COPY

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **CAUTION**

**First Aid** - Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Rinse 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 target area. Do not contaminate water when disposing of equipment washwaters.

## DIRECTIONS FOR USE

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

### GENERAL INFORMATION

PROGRASS is a flowable formulation containing 4.0 lbs. active ingredient per U.S. gallon for use in the establishment of, or on established perennial ryegrass turf for control of certain annual grass and broadleaf weeds. PROGRASS is intended for use on the ornamental turf of sites such as golf courses, parks, and lawns.

### SPRAY EQUIPMENT

Apply PROGRASS using standard low pressure (20-50 psi) spray equipment. Spray equipment should be carefully calibrated before use and check frequently during application to see that it is functioning properly. Do not use smaller than 50 mesh strainer. Avoid overlap since turf injury may result. The spray tank and line should be thoroughly cleaned and rinsed prior to using PROGRASS.

### I. OVERSEEDING BERMUDAGRASS TURF

For preemergence and/or postemergence control of annual bluegrass and common chickweed in dormant bermudagrass overseeded with perennial ryegrass.

### TIMING OF APPLICATION

Apply PROGRASS only to dormant bermudagrass in the fall 15 to 30 days after overseeding with perennial ryegrass. One or two supplemental applications at 30 to 60 day intervals may be required to maintain control through the winter months. Do not apply PROGRASS after February 1. Late applications may temporarily delay resumption of active growth habit of bermudagrass in the spring.

**Note:** Initial PROGRASS treatment may cause premature onset of dormancy or injury to bermudagrass which is not yet fully dormant.

### DOSAGE RATES

Initial application: use 2-4 pints per acre in 20-60 gal. water, or 0.75-1.5 oz. per 1000 sq. ft. in 1-2 gal. water.

Supplemental applications: 2 pints per acre in 20-60 gal. water, or 0.75 oz. per 1000 sq. ft. in 1-2 gal. water. Do not apply more than 8 pints per acre during the recommended application period.

### II. ESTABLISHED PERENNIAL RYEGRASS TURF

For preemergence and/or postemergence control of annual bluegrass and common chickweed.

### TIMING OF APPLICATION

Application is recommended from approximately 2 to 4 weeks prior to the main period of annual bluegrass germination in early fall or late spring, up to 30 days after emergence. Consult the Extension Service or University weed specialists for date(s) annual bluegrass germinates in your area. Repeat 1 to 2 times, if needed to maintain control, at 30 to 60 day intervals.

Overseeding with perennial ryegrass may be undertaken at any time. Overseeding with turf grass species other than ryegrass is not recommended.

### DOSAGE RATES

Use 2-4 pints per acre in 20-60 gal. water, or 0.75-1.5 oz. per 1000 sq. ft. in 1-2 gal. water.

### III. NEW SEEDINGS OF PERENNIAL RYEGRASS

For broad spectrum preemergence and postemergence weed control in newly-seeded perennial ryegrass areas.

### SOIL PREPARATION

The soil should be prepared according to recommended horticultural practice. All existing vegetative growth should be thoroughly worked into the soil before treatment. Trash or vegetative matter left on the soil surface will reduce effectiveness of the PROGRASS treatment.

### APPLICATION

Apply PROGRASS to the seeded area 1 to 2 weeks after emergence of the ryegrass seedlings, when the seedlings are approximately 1" tall. Delay application of straw or mulch, if used, until after PROGRASS application. Presence of straw or mulch on seedbed at time of application will reduce effectiveness of the PROGRASS treatment.

### DOSAGE RATES

Before weed emergence: For preemergence control of all weeds listed below, apply the following rates:

On sandy loam soils, use 3 pints per acre in 20 to 60 gal. water, or 1.0 oz. per 1000 sq. ft. in 1 to 2 gal. water.

On silt or clay loam soils, use 4 pints per acre in 20 to 60 gal. water, or 1.5 oz. per 1000 sq. ft. in 1 to 2 gal. water.

After weed emergence: For postemergence control of annual bluegrass and common chickweed, apply PROGRASS at the earliest possible growth stage but no later than 14 days after emergence. For best results spray before the 6-leaf stage of growth. Use 2 to 4 pints per acre in 20-60 gal. water, or 0.75-1.5 oz. per 1000 sq. ft. in 1-2 gal. water. Repeat 1 to 2 times, if needed to maintain control, at 30 to 60 day intervals.

### IRRIGATION

Irrigate immediately after seeding, and as frequently thereafter as needed to maintain a moist soil surface for optimum germination and growth of ryegrass seedlings.

## WEED SPECIES CONTROLLED

### PREEMERGENCE

#### Annual Grasses

Annual bluegrass  
Large crabgrass  
Barnyardgrass  
Green foxtail  
Yellow foxtail  
Canarygrass

*Poa annua*  
*Digitaria sanguinalis*  
*Echinochloa crus-galli*  
*Setaria viridis*  
*Setaria glauca*  
*Phalaris canariensis*

#### Annual Broadleaves

Common chickweed  
Common purslane  
Redroot pigweed

*Stellaria media*  
*Portulaca oleracea*  
*Amaranthus retroflexus*

PROGRASS will also reduce competition from:

Yellow nutsedge  
Purple nutsedge

*Cyperus esculentus*  
*Cyperus rotundus*

### POSTEMERGENCE

#### Annual Grasses

Annual bluegrass

*Poa annua*

#### Annual Broadleaves

Common chickweed

*Stellaria media*

## GENERAL USE PRECAUTIONS

PROGRASS should be used only for recommended purposes and at the recommended rates. (DO NOT OVERTREAT).

- Do not mix PROGRASS with liquid fertilizers or other pesticides.
- Do not use activated sewage sludge fertilizers in PROGRASS treated area, or reduced herbicidal activity may result.
- Do not allow spray mixture to stand in tank overnight. Flush and drain spray equipment after each day's use. Store unused spray mixture in tightly sealed containers and protect from frost.
- Avoid overlapping when spraying since turf injury may result.

**BEST AVAILABLE COPY**

## STORAGE AND DISPOSAL

**STORAGE** — Protect PROGRASS from frost. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE DISPOSAL** — Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state or local procedures.

**CONTAINER DISPOSAL** — Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

### IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer 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.

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