



PM23 45639-62
FIC 1076

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JAN 14 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Nang-Ly Chow, Ph.D.
NOR-AM CHEMICAL COMPANY
3509 Silverside Road
Wilmington, DE. 19803

Subject: Label Amendment Submission of 06/17/93 In Response to PR Notice 93-7
EPA Reg. No. 45639-62
PROGRASS FLOWABLE HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber


Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

SPECIMEN LABEL

3076
PROPOSED LABEL

ACCEPTED
with COMMENTS
In EPA Letter Dated

JAN 14 1994

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

45639-62

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-benzofuranyl methanesulfonate*)

Percent by Weight

42%

INERT INGREDIENTS:

58%

TOTAL

100%

*Protected by U.S. Patent No. 3,683,507

This product contains 4.0 lb active ingredient per gallon

EPA Reg. No. 45639-62

EPA Est. No. 1812-GA-03

KEEP OUT OF REACH OF CHILDREN
CAUTION

Avoid contact with skin, eyes, or clothing

SEE BACK PANEL FOR ADDITIONAL FIRST AID AND PRECAUTIONARY STATEMENTS

NOR-AM

NORAMALCO COMPANY
A Division of Norwalk Corporation

SPECIALTY PRODUCTS DIVISION
Little Falls Control Group
2775 Canterbury Road
Little Falls, NJ 07643

NET CONTENTS
1 GALLON

BEST AVAILABLE COPY

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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.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

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 overlaps since turf injury may result. The spray tank and line should be thoroughly cleaned and rinsed prior to using PROGRASS.

L OVERSEEDED 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.

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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	<i>Poa annua</i>
Large crabgrass	<i>Digitaria sanguinalis</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Green foxtail	<i>Setaria viridis</i>
Yellow foxtail	<i>Setaria glauca</i>
Canarygrass	<i>Phalaris canariensis</i>

Annual Broadleaves

Common chickweed	<i>Stellaria media</i>
Common purslane	<i>Portulaca oleracea</i>
Redroot pigweed	<i>Amaranthus retroflexus</i>

PROGRASS will also reduce competition from:

Yellow nutsedge	<i>Cyperus esculentus</i>
Purple nutsedge	<i>Cyperus rotundus</i>

POSTEMERGENCE

Annual Grasses

Annual bluegrass	<i>Poa annua</i>
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Annual Broadleaves

Common chickweed	<i>Stellaria media</i>
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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.

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.

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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.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS 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.

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