

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

34874-48
TRANSIT TO 10370-254

DATE OF ISSUANCE

10/30/87

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREГИSTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Pro "1" Pre-Emergence Herbicide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Bishop Chemical, Inc.
Route 12, Box 12020
Tyler, TX 75708

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 34874-48."
 - b. Change the signal word to WARNING.
 - c. The precautionary statements must be changed to:

Causes eye irritation. Do not get in eyes.
Harmful if swallowed, inhaled or absorbed
through the skin. Avoid breathing dust and
contact with skin or clothing. The granular
formulation may cause skin sensitization
reactions in certain individuals. Use eye
protection and protective clothing such as

ATTACHMENT IS APPLICABLE

BEST AVAILABLE COPY

SIGNATURE OF APPROVING OFFICIAL

Robert J. Taylor

DATE

10/30/87

EPA Form 8570-6 (Rev. 3-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

94437:I:Miller:T-1:KENCO:10/28/87:11/06/87:DD:VO:EK:aw

coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

d. Place the "Storage and Disposal" instructions under the "Directions for Use" heading, either at the beginning of this section or at the end.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

BEST AVAILABLE COPY

PRO "1"

PRE-EMERGENCE HERBICIDE

A selective preemergence herbicide for the control of crabgrass and most other annual weed grasses on lawns and turf areas with established:

Bluegrass (perennial)	Bahiagrass	St. Augustinegrass
Ryegrass (perennial)	Bermudagrass	Zoysiagrass
Fescue	Centipedegrass	Bentgrass Fairways

ACTIVE INGREDIENTS:

N-butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine.....0.61%
 trifluralin: a,a,a-trifluoro-2,6-dinitro-N,N-dipropyl-p-toluidine.....0.31%

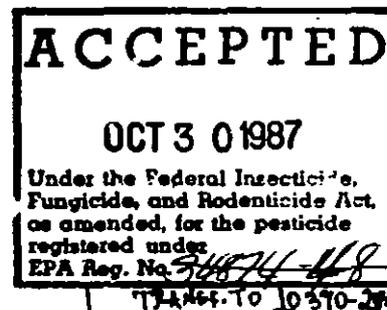
INERT INGREDIENTS:.....99.08%

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children.

CAUTION



Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust and contact with skin or eyes. Use eye protection and protective clothing such as coveralls, a long-sleeved shirt, and impermeable gloves when handling this product.

Statements of Practical Treatment

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

On skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

If inhaled: If discomfort occurs, remove individual to fresh air. Get medical attention if breathing difficulty occurs.

ENVIRONMENTAL HAZARDS

Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Storage: Store in original container only. In case of leak or spill, contain material and dispose as waste.

Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Disclaimer of Warranties:

The manufacturer makes no warranties concerning this product or its use, which extend beyond the description on the label. All other warranties, express or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed.

Limitation of Damages:

Bishop Chemical's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of the Weed and Crabgrass Control and under no circumstances shall Bishop Chemical, Inc. be liable for special, indirect or consequential damages.

DIRECTIONS FOR USE

Read All Directions Carefully Before Applying

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This product is a preemergence herbicide which is applied to established turfgrasses for the control of annual bluegrass (Poa annua), smooth and hairy crabgrass, goosegrass (silver crabgrass or crowfoot), barnyardgrass (watergrass) and green and yellow foxtail. This product controls these annual weeds by killing their seeds as they germinate. Apply this product before these annual weeds begin to germinate since it does not control established weeds.

When this product is applied as directed, the following established turfgrasses are tolerant:

Kentucky Bluegrass	Fescue	St. Augustinegrass
Perennial Ryegrass	Zoysiagrass	Bahiagrass
Centipede grass	Bermudagrass	Bentgrass Fairways

This product will not harm most nearby established ornamental trees and shrubs.

APPLICATION DIRECTIONS:

Rates, Frequency and Timing of Application

Successful preemergence control of the annual grass weeds listed on this label requires proper timing of application.

Apply this product approximately one to two weeks prior to the germination of annual grass seeds. All summer annual grasses do not germinate at the same time. If application timing does not coincide with the normal germination period of any of the annual grass weeds listed on this label, weed control results may be erratic or poor. Optimum weed control performance will be obtained if treated areas are irrigated soon after application.

Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of this product.

1. SPRING GERMINATING SUMMER ANNUAL GRASSES-CRABGRASSES, GOOSEGRASS, FOXTAILS AND BARNYARD-GRASS

A. Northern (cool season) turfgrasses
For preemergence control, apply 220 to 330 pounds per acre (2 to 3 pounds active ingredient) of this product per acre in the spring one to two weeks prior to the onset of conditions favorable for annual weed grass seed germination. Where heavy goosegrass pressure exists, use the rate of 150 pounds of this product per acre.

B. Southern (warm season) turfgrasses
For preemergence control, apply 220 to 330 pounds (2 to 3 pounds active ingredient) of this product per acre in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual weed grass seed germination.

In areas of the United States where germination of the annual weed grass species continues for extended periods of time, a second application of this product at the recommended rate may be made 10 to 12 weeks after initial treatment for continued control.

2. POA ANNUA (ANNUAL BLUE(SS)

In areas of heavy infestation of annual bluegrass, its elimination will temporarily result in thin turfgrass areas. Proper fertilization, irrigation and soil incorporated re-seeding will encourage existing desirable turfgrasses and newly planted seeding turfgrasses to fill in these thin areas previously occupied by annual bluegrass.

A. Northern (cool season) turfgrasses

For preemergence control, apply 220 pounds (2 pounds active ingredient) of this product per acre in late summer or early fall and again in late winter or spring one to two weeks prior to the expected germination of annual bluegrass.

B. South (warm season) turfgrasses

For preemergence control, apply 330 pounds (3 pounds active ingredient) of this product per acre in the late summer or early fall one to two weeks prior to the expected germination of annual bluegrass. In southern areas of the United States where germination of annual bluegrass continues for extended periods of time, a second application of this product at 330 pounds per acre can be made 10 to 12 weeks after the initial treatment.

For application to smaller areas, apply the following amounts of this product:

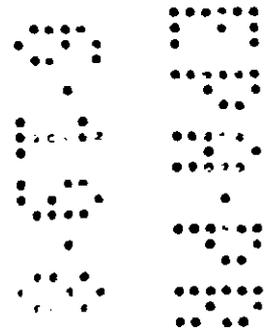
<u>PRODUCT PER ACRE</u>	<u>PRODUCT PER 1000 SQ. FT.</u>
220 pounds	5 pounds
330 pounds	7½ pounds

SEEDING:

Chemicals that effectively control annual weed seeds may also affect new desirable turfgrass seedlings. When reseeding, it is essential that proper cultural practices such as soil cultivation, irrigation and fertilization be followed. For satisfactory reseeding results after using this product the amount of seed used should be increased and equipment designed to place seed in contact with the soil (such as Rogers Aero Seeder) should be employed. Reseeding should be delayed 8 weeks after application of this product at the 220 pound (2 pound active ingredient) rate and 12-16 weeks after the 330 pound (3 pound active ingredient) rate.

APPLICATION EQUIPMENT:

Apply this product evenly over the turfgrass area without skips or misses. A more uniform application can be made by spreading half the required amount over the area and then applying the remaining half at right angles. Both drop type and rotary type spreaders may be used. Avoid the use of spreaders which would apply the material in narrow, concentrated bands. For best results use equipment designed to apply granular herbicides and insecticides. Calibrate applicators prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly.



Appropriate Spreader Setting (As A Guide For Calibration
 (For applying Weed and Crabgrass Control in one pass over the turf).

Note: These settings are provided as suggested starting points in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Bishop Chemical, Inc. or the spreader manufacturer.

Spreader Type	Spreader Setting Necessary To Apply Pounds Formulated Product Per Acre	
	100 lbs/A	150 lbs/A
Grandy: Model 10A series, 6, 8, 10, 11, 12, 20 and 30 ft. (based on tractor speed of 5 mph)	30	36
Model 10T series, 6, 8, 10, 11, 12, 20, and 30 ft. (based on tractor speed of 5 mph)	32	39
Turf Tender, 24, 30, 42 inch (based on tractor speed of 3 mph)	26	28.5
600 Series, 2, 4, and 5 ft. (based on tractor speed of 3 mph)	18	22
Cott: Rotary Model R-8	6 1/2	1 1/2
Drop Spreader	3 7/8	4 5/8
Lesco: Lesco Spreader (Note: set 3rd adjustable hole 1 notch from "open")	F 1/2	H 1/2
Cyclone: Models B1, 33, 96, BSSB and BPI at 200 ft./min.	3 1/2	3 1/2
Model 100 at 200 ft./min.	3 1/2	3 3/4
Model 93 (based on tractor speed of 4 mph)	5 1/2	6 1/2
Model 99 (based on tractor speed of 4 mph)	4 3/4-5	6
Model BPI (based on tractor speed of 4 mph)	4 3/4	5 1/2
Spyker: Spyker	3.3	3.7
Rely: Model W and H (based on tractor speed of 4.5 mph)	3	4
Vicon: Model 402 (with seed ring) Swath width 20'; 5 mph	24	28

HELPFUL APPLICATION TECHNIQUES FOR APPLYING THIS PRODUCT

1. When using a drop type spreader, a splash board mounted under the hopper will help disperse granules more evenly.
A chain fastened to the side of your spreader will leave a marked or scuffed turf area to follow and help prevent missed areas.
2. When using tractor mounted or pull-type rotary applicators to apply this product it is suggested that early morning applications be made when the wind is calm and dew is on the ground. Wheel tracks are easy to follow and granules can be spread uniformly.
3. Small area applications is easy using a small rotary applicator. To insure proper coverage and avoid missed areas, early morning treatment when wheel tracks are evident in the dew and the wind is calm are ideal.

PRECAUTIONS

Apply this product to the turf prior to the germination of weed grasses since this product will not control established weeds. This product may thin established annual bluegrass (*Poa annua*) turfs and fine-leaved fescues at rates above 220 pounds per acre (2 pounds active ingredient). This product should not be applied in the spring to turfgrass planted the previous fall. In bermudagrass areas that have been overseeded with winter grasses, a spring application of this product may thin the overseeded grasses. Because of varying cultural practices, this product should not be used on putting greens. This product should not be used on dichondra. This product should not be applied to newly sprigged areas of bermudagrass, St. Augustinegrass, centipede grass or zoysiagrass until these turfs are well established.

Contains



TM

NET CONTENTS: 25 Lbs.

TEAMTM - the trademark for Elanco Products benfin plus trifluralin.

Manufactured by



RT 12, BOX 17020
TYLER, TEXAS 75799

E.P.A. Reg. No.

E.P.A. Est. No. 34874-TX-1

