

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

EPA REGISTRATION NO.
2491-335

DATE OF ISSUANCE
MAR 20 1990

TERM OF ISSUANCE

Conditional

NOTICE OF PESTICIDE: ☒ REGISTRATION
☐ REREISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act as amended)

NAME OF PESTICIDE PRODUCT

1. NAME OF PESTICIDE PRODUCT
2. NAME OF PESTICIDE PRODUCT

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

1. NAME AND ADDRESS OF REGISTRANT
2. NAME AND ADDRESS OF REGISTRANT
3. NAME AND ADDRESS OF REGISTRANT

P112E
2491-335
1-1-6

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 endorsement 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.

1. The product is considered to be a pesticide under FIFRA sec. 2(c)(1) and is registered under FIFRA sec. 2(c)(1) provided that the following conditions are met:

1. Submit and/or file the data required for registration/reregistration of your product under FIFRA sec. 2(c)(1) when the Agency requires all registrants of similar products to submit such data.

2. Add the phrase, "EPA Registration No. 2491-335" to your label before you release the product for shipment.

3. Please notes: In the process of repackaging, this product should not be in contact with any nitrosating agent as to present a nitrosamine problem.

4. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

Sincerely yours,

Joanne L. Miller
Acting Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (E7505C)

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☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne L. Miller

DATE

3-21-90

(Front Panel)

NATURE'S BEST BRAND

LAWN WEED AND FEED

A Dual Action Pre-Emergent Crabgrass Killer containing
Benefin (Balan^(R)) - Trifluralin and a Premium Turf Fertilizer.

For use on established Bluegrass (perennial), Ryegrass (perennial), Fescue, Bahiagrass, Bermudagrass, Centipedegrass, St. Augustinegrass, and Zoysiagrass for the control of Crabgrass and other listed Annual Weed Grasses on Home Lawns, Golf Courses, Parks and other Ornamental & Recreational Turf.

ACTIVE INGREDIENTS:

N-butyl-N-ethyl-alpha-alpha-alpha, trifluoro-2, 6-dinitro-p-toluidine	0.77%
Trifluralin: alpha, alpha, alpha-trifluoro-2, 6-dinitro-N, N-dipropyl-p-toluidine	0.38%
INERT INGREDIENTS:	98.85%
TOTAL	100.00%

Tea^(R) and Balan^(R) - Registered Trademarks of The Elanco Products Company

GUARANTEED ANALYSIS:

Total Nitrogen	25%
1.0% Ammoniacal Nitrogen	
6.8% Sulfur Coated Urea	
17.2% Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	3%
Soluble Potash (K ₂ O)	3%
Primary Plant Foods derived from Urea, Sulfur Coated Urea, Ammonium Phosphate, Triple Super Phosphate, and Muriate of Potash	
Chlorine (Cl) Maximum	3%

KEEP OUT OF REACH OF CHILDREN

WARNING

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND
STATEMENT OF PRACTICAL TREATMENT

EPA REG. NO. 2491-

NET WEIGHT POUNDS

EPA EST. NO. 2491-WI-1

MANUFACTURED BY

KOOS, INC.

Kenosha, Wisconsin 53141

ACCEPTED
with COMMENTS
In EPA Label Data

Aug 20 1990

2491-335

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: 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 coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse. Do not allow children or pets on lawn until $\frac{1}{2}$ " of water has been applied to lawn and water has dried (or, if wet conditions persist, until 24 hours have passed).

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Call a physician.

IF SWALLOWED: Call a physician or Poison Control Center. Drink promptly, a large quantity of milk, egg white, gelatin solution, or, if these are not available, large quantities of water. Avoid Alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF INHALED: If breathing difficulty occurs, move individual to fresh air and get medical attention.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, or marshes). Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. 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.

WHERE TO APPLY

When applied according to these directions this product can be used safely on the following turfgrass varieties: Perennial Bluegrass varieties, Perennial Ryegrass varieties, Bermudagrass, Bahiagrass, Centipedegrass, Fescue varieties, St. Augustinegrass & Zoysiagrass lawns and ornamental turf. Will not harm most nearby ornamental trees and shrubs when used as directed.

WEEDS CONTROLLED

This product contains a combination of Benefin and Trifluralin pre-emergence Herbicide plus a 25-3-3 Lawn Food. It should be applied to established turf for the control of Crabgrass (Smooth and Hairy), Goosegrass (Silver Crab or Crowfoot), Barnyardgrass (Watergrass), Foxtail (Green and Yellow), and Annual Bluegrass (Poa Annua) and provides a complete lawn fertilization.

WHEN TO APPLY

Apply to turf prior to germination of weed seeds since established weeds will not be controlled. Apply only to healthy established turf grass lawns.

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IMPORTANT PRECAUTIONS:

DO NOT apply in the spring to Bermudagrass which has been overseeded with winter grasses (annual rye) since thinning will occur. DO NOT use on Dichondra, nor on newly sprigged areas of Bermudagrass, St. Augustinegrass or Centipedegrass, until these turfs are well established, nor to Bentgrass or Putting Greens. DO NOT apply in spring to Turfgrass planted the previous fall. This product may thin established Annual Bluegrass (*Poa Annua*) & Fine-Leafed Fescue lawns when used at higher rates than 174 lbs. per acre. (2.0 lb. A.I. Per Acre). Do not overdose.

WHEN AND HOW TO TIME YOUR APPLICATION

Successful pre-emergence control of the annual grass weeds on this label requires proper timing of application. This product must be applied one to two weeks prior to the germination of annual grass weeds. 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 grassy weeds listed on this label, weed control results may be erratic or poor. Any cultural practices that disturb the soil such as vorticutting, should be done prior to application of this product.

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"SPRING GERMINATING" SUMMER ANNUAL GRASSES: CRABGRASS, FOXTAIL, BARNYARDGRASS:

A. Northern Cool Season grasses - For pre-emergence control, apply 130 to 174 lbs. per acre, (equal to 1.5 to 2.00 lbs. Act.Ingred./acre) applied in the spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. 50 lbs. will "Weed and Feed" 12,500 to 16,250 sq. ft.

B. Southern warm season turfgrass - For pre-emergence control apply 174 to 261 lbs. per acre (equal to 2 to 3 lbs. Active Ingredient per acre), in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. 50 lbs. will "Weed and Feed" 8,325 to 12,500 sq. ft. Use for 8,325 sq. ft. where turf is completely overrun by weeds. Use for 12,500 sq. ft. when weeds are sparse or the turf is in a Yearly Crabgrass Control Program.

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"LATE SPRING, EARLY SUMMER GERMINATING" ANNUAL GRASSES: GOOSEGRASS (SILVER CRAB)

Although classified as a summer annual grass, goosegrass normally germinates 4 to 6 weeks later than the crabgrass, foxtails and other summer annual grass species. Applications of this product should, therefore, be timed accordingly.

A. Northern cool season turfgrasses - For pre-emergence control apply 174 lbs. per acre (equal to 2 lbs. Active Ingredient per acre) of this product in late spring or early summer one to two weeks prior to the expected germination period of goosegrass. 50 lbs. will "Weed and Feed" 12,500 sq. ft.

B. Southern warm season turfgrasses - For pre-emergence control, apply 174 to 261 lbs. per acre (equal to 2 to 3 lbs. Active Ingredient per acre) of this product in late spring or early summer one to two weeks prior to the expected germination of goosegrass. 50 lbs. will "Weed and Feed" 8,325 to 12,500 sq. ft. Use for 8,325 sq. ft. where turf is completely overrun

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by weed. Use for 12,500 sq. ft. when weeds are sparse and the turf is in a Yearly Lawn Maintenance Program.

FULL SEASON CONTROL IN NORTHERN AND SOUTHERN TURFGRASSES

In areas of the United States where pre-emergence control of both early germinating annual grasses (Crabgrass, Foxtails, and Barnyardgrass) and the later germinating Goosegrass is desired, two applications of this product at the recommended rate spaced 8 to 10 weeks apart may be made to provide full season control of these annual grass species.

POA ANNUA (ANNUAL BLUEGRASS) CONTROL

In areas of heavy infestation of Annual Bluegrass, its elimination will leave areas of thin turf. Employ proper cultural practices to establish a new turf.

Northern cool season turfgrasses - For pre-emergence control apply 174 lbs. per acre (equal to 2 lbs. Active Ingredient per acre) of this product per acre in late summer or early fall and again in late winter or spring one to two weeks prior to expected germination of annual bluegrass. 50 lbs. treats 12,500 sq. ft. of turfgrass area.

Southern warm season turfgrasses - For Pre-emergence control apply 261 lbs. per acre (equal to 3 lbs. Active Ingredient per acre) of this product per acre in the later summer or early fall one to two weeks prior to 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 at 261 lbs. per acre can be made 10 to 12 weeks after the initial treatment. 50 lbs. treats 8,325 sq. ft. of Turfgrass area.

RESEEDING TREATED AREAS: 1. Delay reseeding - 6 weeks when applying at the rate of 130 or 174 lbs. of product per acre (equal to 1.5 to 2.0 lbs. Active Ingredient per acre or 50 lbs. to treat 12,500 to 16,250 sq. ft.) 2. Delay reseeding - 12 to 16 weeks when applying at the rate of 261 lbs. of product per acre (equal to 3.0 lbs. of Active Ingredient per acre or 50 lbs. to treat 8,325 sq. ft.). WHEN RESEEDING - INCREASE THE RECOMMENDED AMOUNT OF SEED BY 25%.

SPREADER SETTINGS

The following spreader settings are for use with new equipment. Your spreader may need calibrating since proper application is based on the spreader's condition with regard to age and use, your walking speed and the unevenness of the terrain. Poor weed control will result from uneven or improper application.

SPREADER SETTINGS					
Spreader	Sq. Ft.	Northern Lawns		Southern Lawns	
	Per Sq. Ft.	Crabgrass etc.	Poa Annua	Crabgrass etc.	Poa Annua
SCOTT #35	16,250	3	4 1/2	-	-
	12,500	4	5 1/2	4	5 1/2
	8,325	-	-	5 1/2	6
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CYCLONE 0-1	16,250 Sq. Ft.	3	3	-	-
	12,500	3	4	3	4
	8,325	-	-	4	4 1/2

50 LBS. TO TREAT 16,250 SQ. FT. = 1.50 LBS. A./ACRE

50 LBS. TO TREAT 12,500 SQ. FT. = 2.00 LBS. A./ACRE

50 LBS. TO TREAT 8,325 SQ. FT. = 3.00 LBS. A./ACRE

FOR OPTIMUM PRE-EMERGENCE WEED CONTROL
APPLY AT THE APPROPRIATE TIME

APPROPRIATE TIMES TO APPLY THIS PRE-EMERGENT HERBICIDE
JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

1. [REDACTED] 2. [REDACTED] 3. [REDACTED]

4. [REDACTED] 5. [REDACTED] 6. [REDACTED]

1. For Crabgrass etc. Northern Lawns

4. For Crabgrass etc. Southern Lawns.

2. For Goosegrass in Northern Lawns

5. For Goosegrass in Southern Lawns

3. For Poa Annua in Northern Lawns

6. For Poa Annua in Southern Lawns

*Two applications spaced 8 to 10 weeks apart may be needed for season long control.

STORAGE AND DISPOSAL

STORAGE: Store in original container and keep any bags containing unused product in a dry area inaccessible to children and domestic animals. Do not store near food or foodstuffs. To prevent cross-contamination, do not store near other fertilizers, or near herbicides, insecticides, fungicides, or seeds.

PRODUCT DISPOSAL: To dispose of bags which contain unused product, securely wrap bag in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty bag. Fold empty bag and discard in trash.

WARRANTY: Koos, Inc. warrants that this herbicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this herbicide is reasonably fit for its intended purposes. Since timing, method of application, weather, plant, and soil conditions, mixtures with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

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