

PM 25

228-208

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Mr. Russell F. Sawyer
Riverdale Chemical Company
425 West 194th Street
Glenwood, IL 60425-1584

Dear Mr. Sawyer:

APR 26 1988

Subject: Revised Label - Trifluralin Standard
Riverdale Team 1.15 Lawn Weed and Feed
EPA Registration No. 228-208
Your Submission Dated April 11, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

As labels are printed:

1. Under WATER THE LAWN AFTER APPLICATION, delete the phrase "It is not necessary but"
2. Delete "GENERAL CLASSIFICATION." The uses of this pesticide have not been classified.
3. Note the correct spelling of eyelids under the STATEMENT OF PRACTICAL TREATMENT.
4. Change the application rates . . . 158 . . . and 274 lb/acre to reflect rates recommended for this product.

Sincerely yours,

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

11244:I:Mountfort:LMF-03:KENCO:4/22/88:5/2/88:EK:vo:psr:rw

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

EXTRA COPY
(with changes highlighted)

(Front Panel)

RIVERDALE
TEAM^(R) 1.15 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%

Team^(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 Potassium Sulfate of Potash	
Chlorine (Cl) Maximum	3%

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 26 1988

Under the Federal Insecticide, Fungicide, and Rodenticide Act. Use as directed. For this pesticide registered under EPA Reg. No. 228-1069

KEEP OUT OF REACH OF CHILDREN

WARNING

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

EPA REG. NO. 228-208

EPA EST. NO. 228-IL-1

NET WEIGHT POUNDS

MANUFACTURED BY
RIVERDALE CHEMICAL COMPANY
Glenwood, IL 60425-1584

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 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

General Classification

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.



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 158 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.

WATER THE LAWN AFTER APPLICATION: It is not necessary but optimum weed control performance will be obtained if treated areas are irrigated with 1/4 to 1/2 inch water soon after application. 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



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.

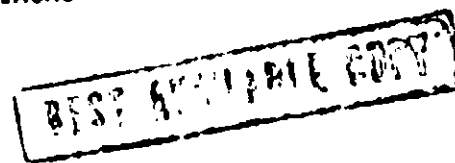
RESEEDING TREATED AREAS: 1. Delay reseeding - 6 weeks when applying at the rate of 130 or 174 lbs. of product per acre (equal to 1.5 to 2.0 lbs. Active Ingredient per acre or 50 lbs. to treat 12,500 to 16,250 sq. ft.) 2. Delay reseeding - 12 to 16 weeks when applying at the rate of 274 lbs. of product 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	50# Bag Per Sq. Ft.	Northern Lawns		Southern Lawns	
		Crabgrass etc.	Poa Annua	Crabgrass etc.	Poa Annua
SCOTT #35	16,250	3	4 1/2	4	5 1/2
	12,500	4	5 1/2	4	5 1/2
	8,325	5	6 1/2	4	5 1/2
CYCLONE 0-1	16,250 Sq. Ft.	3	4	4	5 1/2
	12,500	4	5	4	5 1/2
	8,325	5	6	4	5 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.	2.	3.					
			4.	5.					6.		
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: Riverdale 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.

