

228-208

6/26/2003

Jacket
1/7



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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Russell F. Sawyer
Nufarm Americas Inc.
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60527-0866

JUN 26 2003

Dear Mr. Sawyer:

Subject: Trifluralin Reregistration
Riverdale Team 1.15 Lawn Weed and Feed
EPA Registration No. 228-208
Your Submission Dated April 7, 2003

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. On the "Residential" labeling on the front panel specify "Residential Ornamental Turf".
 - b. On the "Commercial" labeling either delete "such as" and specify "and similar ornamental turf areas" or add the following WPS Exclusionary statement:

Not for use on turf being grown for sale or other commercial use such as sod, or for commercial seed production, or for research purposes.

Please note that this product can not be reregistered under section 4(g)(2)(c) of FIFRA until the benefin RED is issued and all requirements for that active ingredient have been satisfied. If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391.

Sincerely yours,

A handwritten signature in cursive script that reads "Joanne I. Miller".

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

2/7

ACCEPTED
with COMMENTS
In EPA Letter Dated
JUN 26 2003

(Residential)

RIVERDALE®

TEAM® 1.15 LAWN WEED AND FEED

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
228-208

A Dual Action Pre-Emergent Crabgrass Killer containing
Benefin (Balan®) - 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 Ornamental Turf.

ACTIVE INGREDIENTS:

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

GUARANTEED ANALYSIS:

Total Nitrogen (N)	X%
X% Ammoniacal Nitrogen	
X% Sulfur Coated Urea	
X% Urea Nitrogen	
Available Phosphate (P_2O_5)	X%
Soluble Potash (K_2O)	X%
Primary Plant Foods derived from Urea, Sulfur Coated Urea, Ammonium Phosphate, Triple Super Phosphate, and Muriate of Potash.	
Chlorine (Cl) Maximum	X%
The urea nitrogen in this product has been coated to provide X% coated slow release urea nitrogen.	

Fertilizer guaranteed by (Name of Fertilizer Registrant)

Riverdale is a Registered Trademark of Riverdale - A Nufarm Company
Team® and Balan® are Registered Trademarks of Dow AgroSciences LLC

U.S. Patent No. 4,226,789

<p>KEEP OUT OF REACH OF CHILDREN</p> <p>CAUTION</p> <p>SEE BACK PANEL FOR FIRST AID</p> <p>AND ADDITIONAL PRECAUTIONARY STATEMENTS</p>
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EPA REG. NO. 228-208

NET WEIGHT POUNDS

EPA EST. NO. 228-IL-1

MANUFACTURED BY NUFARM AMERICAS INC., BURR RIDGE, ILLINOIS 60527-0866

Revised 4/7/03 Redefined Ornamental Turf per EPA's request; also revised Disposal Statement per PR 2001-6 via Amendment.
5/23/03 2001-6 revision on Residential label corrected.

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

Harmful if absorbed through skin. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt, long pants, socks, shoes and waterproof gloves.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID STATEMENT

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advise.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply directly to water. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. 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. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

APPLICATION RESTRICTIONS

Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.

ENTRY RESTRICTIONS

Do not allow people or pets to enter the treated area until dust has settled. If watering-in is required after the application, do not enter or allow others to enter the treated areas (except those involved in the watering) until the watering-in is complete and the surface is dry.

WHERE TO APPLY

Team 1.15 Lawn Weed And Feed is for use on all residential ornamental turf. When applied according to these directions, this product can be used safely on the following turfgrass varieties: Perennial Bluegrass varieties, Perennial Ryegrass varieties, Bentgrass fairways, Bermudagrass, Bahiagrass, Centipedegrass, Fescue varieties, St. Augustinegrass & Zoysiagrass. 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 X-X-X Lawn Food. It should be applied to established turf for the control of Summer annual grasses: Crabgrass (Smooth and Hairy), Goosegrass (Silver Crab or

Crowfoot), Barnyardgrass (Watergrass), and Foxtail (Green and Yellow); Winter Annual Bluegrass (Poa Annua); and provides partial control of prostate spurge (Euphorbia humistrata), Spotted spurge (Euphorbia maculata), Creeping spurge (Euphorbia serpens), Creeping woodsorrel (Oxalis corniculata), and Yellow woodsorrel (Oxalis stricta).

This product also provides a complete lawn fertilization.

(The following paragraph is mandatory in Kentucky when the nitrogen analysis does not provide 1 pound of nitrogen/1,000 square feet; otherwise, this information is optional.)

A lawn typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing *(No. of lbs.)* pounds of nitrogen per 1,000 square feet (optional P₂O₅ and K₂O levels) and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

*Based on Inert fertilizer claimed.

WHEN TO APPLY

Apply to turf one to two weeks prior to the anticipated 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. DO NOT apply in Spring to Turfgrass planted the previous Fall. This product may thin established Annual Bluegrass (Poa Annua) and Fine-Leafed Fescue lawns when used at higher rates than 43.5 pounds per 10,890 square feet (0.5 pounds Active Ingredient [A.I.] Per 10,890 square feet). Do not overdose.

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

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 aerification or verticutting, should be done prior to application of this product. Avoid skips and overlaps as poor weed control or turfgrass injury may occur. Optimum weed control performance will be obtained if treated areas are watered-in soon after application.

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

A. Northern Cool Season Grasses - For pre-emergence control, apply 32.5 to 43.5 pounds per 10,890 square feet (equal to 0.375 to 0.5 pounds A.I. per 10,890 square feet), applied in the Spring one to two weeks prior to the onset of conditions favorable for annual weedy grass seed germination. 50 pounds will "Weed and Feed" 12,500 to 16,750 square feet.

B. Southern warm season turfgrass - For pre-emergence control, apply 43.5 to 65 pounds per 10,890 square feet (equal to 0.5 to 0.75 pounds A.I. per 10,890 square feet) 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 pounds will "Weed and Feed" 8,375 to 12,500 square feet. Use for 8,375 square feet where turf is completely overrun by weeds. Use for 12,500 square feet when weeds are sparse or the turf is in a Yearly Crabgrass Control Program.

"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 43.5 pounds per 10,890 square feet (equal to 0.5 pounds A.I. per 10,890 square feet) of this product in late Spring or early Summer, one to two weeks prior to the expected germination period of goosegrass. 50 pounds will "Weed and Feed" 12,500 square feet.

B. Southern warm season turfgrasses - For pre-emergence control, apply 43.5 to 65 pounds per 10,890 square feet (equal to 0.5 to 0.75 pounds A.I. per 10,890 square feet) of this product in late Spring or early Summer, one to two weeks prior to the expected germination of goosegrass. 50 pounds will "Weed and Feed" 8,375 to 12,500 square feet. Use for 8,375 square feet where turf is completely overrun by weeds. Use for 12,500 square feet 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 43.5 pounds per 10,890 square feet (equal to 0.5 pounds A.I. per 10,890 square feet) of this product 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 pounds treats 12,500 square feet of turfgrass area.

Southern warm season turfgrasses - For pre-emergence control, apply 65 pounds per 10,890 square feet (equal to 0.75 pounds A.I. per 10,890 square feet) of this product in the late 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 65 pounds per 10,890 square feet can be made 10 to 12 weeks after the initial treatment. 50 pounds treats 8,375 square feet of Turfgrass area.

RESEEDING TREATED AREAS: 1. Delay reseeding - 6 weeks when applying at the rate of 32.5 to 43.5 pounds of product per 10,890 square feet (equal to 0.375 to 0.5 pounds A.I. per 10,890 square feet or 50 pounds to treat 12,500 to 16,750 square feet.) 2. Delay reseeding - 12 to 16 weeks when applying at the rate of 65 pounds of product per 10,890 square feet (equal to 0.75 pounds of A.I. per 10,890 square feet or 50 pounds to treat 8,375 square feet). 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
FOR SINGLE APPLICATION**

Spreader	50# Bag	Northern Lawns		Southern Lawns	
		Crabgrass etc.	Poa Annua	Crabgrass etc.	Poa Annua
SCOTT #35	16,750 Sq. Ft.	3	4%	--	--
	12,500 Sq. Ft.	4	5%	4	5%
	8,375 Sq. Ft.	--	--	6%	6
CYCLONE B-1	16,750 Sq. Ft.	2	3	--	--
	12,500 Sq. Ft.	3	4	3	4
	8,375 Sq. Ft.	--	--	4	4%

**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.

In areas with extended growing seasons or where desired, a second application at the recommended rate can be made 8 to 10 weeks following the initial application on cool season turfgrasses and 10 to 12 weeks following the initial application on warm season turfgrasses.

Split Applications for Extended Control and Lawn Care Operator Programs

As an alternative to single application programs, this product may also be applied in split applications. This program is desirable when the initial application is made well

in advance of weed germination and where weed control is desired for a longer period of time. For split applications, do not reseed treated areas for 8 to 10 weeks after the last 32.5 pounds per 10,890 square feet rate or 10 to 12 weeks after the last 43.5 pounds per 10,890 square feet rate.

Apply this product at 32.5 pounds plus 32.5 pounds per 10,890 square feet for Cool Season Turfgrasses and in the northern half of the Warm season Turfgrass area of the U.S. or 43.5 pounds plus 43.5 pounds per 10,890 square feet in the southern half of the Warm Season Turfgrass area of the U.S. The second application should be made 8 to 10 weeks following the 32.5 pounds per 10,890 square feet rate and 10 to 12 weeks following the 43.5 pounds per 10,890 square feet rate.

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 feed or foodstuffs. To prevent cross-contamination, do not store near open containers of fertilizer, seed or other pesticides.

DISPOSAL: If empty - Do not reuse this container. Place in trash or offer for recycling if available. If partly filled - If product cannot be used as directed, or offered to others for their use, call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.

WARRANTY

Seller 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.

(RV 052303)

[Editor's note: Subregistrant label may include a different (1) Fertilizer Analysis; (2) table of recommended spreader equipment and spreader settings for the fertilizer blend used; (3) Warranty Statement. Chlorine declaration is optional except where mandated by State fertilizer regulation.]

Optional Fertilizer and Marketing Statements

Another Quality Product From Gro Green!

Start a beautiful lawn

Compare Price

Compare Results

NITROGEN	PHOSPHORUS	POTASSIUM
Vital for overall growth, density of turf and greenness.	Helps develop a deep healthy root system that produces more blades of grass.	Vital for turf growth, hardiness and drought resistance.

Step 1

•CRABGRASS CONTROL

Stops crabgrass and other undesirable grasses before they start.

•SUPER TURF 28-3-4 FORMULA

Feeds existing lawn and should be applied anytime in the Spring.

Read entire label before using this product. Use strictly in accordance with label precautionary statements and directions.

QUICK & EASY - We recommend the cyclone (roto, broadcast) spreaders.

1. They cover 5,000 sq. ft. (50' x 100') in about 15 minutes.
 2. Over lap 6" to 8" and you will get professional results without streaking.
- On standard models - set all makes about 1/5 of total opening.

Cyclone (Roto) Type	4
Scotts - Standard Models Only	5
Central, Greenfield, Cross Country	6

These settings are furnished as a guide ONLY - Age, condition of spreader, speed of operation and roughness of terrain can cause variations in rates applied.