

PM 21

228-298

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
228-298

Date of Issuance:
MAR 19 1996

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Riverdale Patchwork

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Riverdale Chemical Company
425 West 194th Street
Glenwood, Illinois 60425-1584

Note: Changes in labeling 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 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.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following labeling change before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 228-298".
 - b. Add the heading "Personal Protective Equipment" immediately below the specific precautionary statements on the label.
3. Submit five copies of the final printed label for the record.

If these conditions are not complied with, the registration

Signature of Approving Official:

Cornie B. Welch

Date:

3/19/96

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will be subject to cancellation in accordance with FIFRA sec 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.

Sincerely yours,



Connie B. Welch
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

7505C:C.Grable:cg:3/19/96

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RIVERDALE
PATCHWORK™

FOR USE ON GOLF COURSES, PARKS, ATHLETIC FIELDS,
SOD FARMS, AND SIMILAR COMMERCIAL AND RESIDENTIAL AREAS

ACTIVE INGREDIENT:

Fenarimol	0.78%
INERT INGREDIENTS	99.22%
TOTAL	100.00%

Contains 0.0078 pounds active per pound.

Patchwork™ is a Trademark of Riverdale Chemical Company

KEEP OUT OF REACH OF CHILDREN

CAUTION - CAUCION

Si usted no entiende la etiqueta, busque a alguien para que
se la explique a usted en detalle.

(If you do not understand the label, find someone
to explain it to you in detail.)

**SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS
AND STATEMENT OF PRACTICAL TREATMENT**

NET WEIGHT: . . . LBS.

EPA REG. NO. 228-EOI

EPA EST. NO. 228-IL-1

MANUFACTURED BY
RIVERDALE CHEMICAL COMPANY
GLENWOOD, ILLINOIS 60425-1584

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 19 1995

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

NOTE: Spanish language is optional.

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

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

NON-WPS USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) -- in general, only agricultural plant uses are covered by the WPS -- must wear: no Personal Protection Equipment required when loading or applying.

WPS USES: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural plant uses are covered -- must wear: long-sleeved shirt and short pants; waterproof gloves, and shoes plus socks. Follow manufacturers instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. 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.

STATEMENTS OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

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 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.

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

This pesticide label is registered in accordance with the labeling and with the Worker Protection Standard (WPS) (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 requirements for the development of the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this label only apply to uses of this product that are covered by the Worker Protection Standard (40 CFR Part 170).

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, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. No re-entry restrictions for non-crop applications.

Patchwork™ is a locally systemic fungicide that provides preventive control of the Patch Diseases of Turf listed on this label. This product is a soil active fungicide that must be applied prior to the onset of disease activity in accordance with label specified timing. Since Patch Diseases in Turf are generally active in the same area they occurred previously, preventive applications of Patchwork™ to the previously affected area are necessary for control.

Application Directions:

PATCHWORK™ GRANULE RATE RECOMMENDATIONS - TURF
(excluding Greens & Tees)

DISEASE ORGANISM	#/ACRE	#/1000 SQ. FT.	APPLICATION INTERVAL	SEE COMMENTS
Necrotic Ring Spot (Leptosphaeria korrae)	175-350	4-8	1 or 2 applications	1, 2.
Summer Patch (Magnaporthe poae)	175-350	4-8	1 or 2 applications	1, 2.
Fusarium Blight (Fusarium culmorum) (Fusarium poae)	175-350	4-8	1 or 2 applications	1, 2.
Take-All Patch (Gaeumannomyces graminis)	175-350	4-8	1 or 2 applications	2, 3.
Spring Dead Spot (Leptosphaeria korrae)	175-262.5	4-6	Single application	2, 4.

PATCHWORK™ GRANULE RATE RECOMMENDATIONS - GREENS & TEES

DISEASE ORGANISM	#/ACRE	#/1000 SQ. FT.	APPLICATION INTERVAL	SEE COMMENTS
Necrotic Ring Spot (Leptosphaeria korrae)	175	4	1 or 2 applications	1, 2.
Summer Patch (Magnaporthe poae)	175	4	1 or 2 applications	1, 2.

Fusarium Blight (Fusarium culmorum) (Fusarium poae)	175	4	Split application 30 day intervals	2, 5.
Take-All-Patch (Gaeumannomyces graminis)	350	8	Split application - 30 day intervals	2, 6.
Spring Dead Spot (Leptosphaeria korrae)	175-262.5	4-6	Single application	2, 4.

COMMENTS

1. Apply preventively in a single 175 to 350 #/acre (4 to 8 #/1000 square feet) application in April or as a split application with 87.5 to 175 #/acre (2 to 4 #/1000 square feet) applied in April and 87.5 to 175 #/acre (2 to 4 #/1000 square feet) applied in May.
* Use the higher rate listed when area to be treated has a previous history of disease infestation.
2. For maximum results, water in or irrigate after treatment with $\frac{1}{2}$ to 1 inch of water.
3. Apply preventively in a single 350 #/acre (8 #/1000 square feet) application or as a split application with each application at 175 #/acre (4 #/1000 square feet) applied at 30 day intervals. Applications should be made prior to permanent snow cover or frozen soil.
4. For Spring Dead Spot, make a single application of 175#/acre (4 #/1000 square feet) in September, or 262.5 #/acre (6 #/1000 square feet) in October or November.
5. For greens and tees, apply preventively with split applications with the first application of 87.5 #/acre (2 #/1000 square feet) beginning in April followed by a second application of 87.5 #/acre (2 #/1000) in May. If conditions are favorable in the Fall for disease occurrence, applications 14 days prior to the anticipated appearance of disease symptoms may be necessary.
6. For greens and tees, apply preventively in split applications of 175 #/acre (4 #/1000) at 30 day intervals. Applications should be made prior to permanent snow cover or frozen soil. If conditions are favorable in the Fall for disease occurrence, applications 14 days prior to the anticipated appearance of disease symptoms may be necessary.

PRECAUTIONS

Applications to turfgrass areas containing *Poa annua* (annual bluegrass) may result in the gradual reduction of this species from the turfgrass area. Cumulative usages of 350 #/acre (8 #/1000 square feet) are usually necessary for this response to occur.

**POA ANNUA MANAGEMENT PROGRAM
FOR OVERSEEDED BERMUDAGRASS GREENS AND TEES**

Poa annua behaves as a true Winter annual weed in Southern warm season turfgrass areas. As such, it reduces turf quality in overseeded Bermudagrass greens and tees and is a significant management problem for golf course superintendents. Patchwork can be used as a tool for reducing *Poa annua* populations in overseeded Bermudagrass greens and tees. Methods of reducing *Poa annua* populations can be varied to fit easily into a golf course turf management program. This labeling describes various options for managing *Poa annua* populations using Patchwork. Its primary use should not be undertaken unless these instructions are fully understood by the user. In addition, the user should read and follow all use directions, precautions, and limitations on the Patchwork label.

Patchwork Growth Regulating Effect

Patchwork may exert a growth regulating effect on certain plants by inhibiting the biosynthesis of gibberellins and other hormones. This effect is expressed as a reduction in internode elongation and suppression of overall plant growth. In the presence of sufficiently high rates of Patchwork on turfgrass, a species sensitive to this effect may be selectively

sensitive cultivars. Poa annua has demonstrated a significantly greater sensitivity to Patchwork than perennial turfgrass species and most of their cultivars. The selective growth regulation of Poa annua can be most readily observed in Patchwork treated greens and tees. Proper use of this activity can assist the golf course superintendent in managing the Poa annua composition of the greens and tees.

Management of Poa annua Using Patchwork

Patchwork, a highly effective locally systemic fungicide, is labeled for control of a number of economically important turfgrass diseases. The Patchwork Poa annua management program can be timed to coincide with Fall fungicide applications for control of late season diseases in Bermudagrass greens and tees.

For optimum control, Patchwork should be applied prior to germination of Poa annua. Treatment alternatives include a program of either 2 or 3 applications to reach the 12.0 #/1000 square feet rate of Patchwork.

Timing is critical issue in achieving control of Poa annua. Most consistent results are achieved when Patchwork is applied prior to germination of Poa annua. If a later overseeding date is scheduled, the three application strategy is most effective.

Overseeding

Fine bladed perennial ryegrass or blends of ryegrass cultivars are recommended for overseeding greens and tees. To avoid seedling stress, the last application of Patchwork should be made at least 2 weeks before overseeding perennial ryegrass and the seeding rate should be a minimum of 30 pounds per 1000 square feet. If either Poa trivialis or bentgrass is used for overseeding, follow the 3 application program. To avoid seedling stress when overseeding Poa trivialis or bentgrass, the final application of Patchwork should be made at least 30 days before overseeding.

Patchwork Poa annua Control Programs

Program	Number of Applications	Rate Application	Spray Interval	Application Timing	Expected Percent Control
A	2	Patchwork 6.0 #/1000 sq. ft.	14 days	First application prior to Poa annua germination	75 to 95+%
B	3	Patchwork 4.0 #/1000 sq. ft.	14 days	First application prior to Poa annua germination	75 to 95+%

Note: A single application of 2.0 # of Patchwork per 1000 square feet in January or February following overseeding will help enhance the suppression of Poa annua and prolong this effect through the Spring season.

Anticipated Results

Application of Patchwork for management of Poa annua will coincide with the onset of winter dormancy in Bermudagrass. Extended periods of low temperatures and heavy rainfall after a Patchwork application may result in yellowing of Bermudagrass. This effect is attributable to developing dormancy of Bermudagrass, not to Patchwork application. Normal germination and growth of the overseeded grasses can be expected.

Applications of Patchwork in the program recommended in this label will result in a minimum of 75 to 95 percent control of Poa annua. Results are most apparent during the fall and winter months when Poa annua seed heads are visible and plant germination and growth are required. Management control of turf diseases susceptible to Patchwork in the program recommended is expected as a part of the Patchwork management program.

Precaution

A single application of Patchwork in excess of the label rate may injure or kill creeping bentgrass for up to 4 weeks after application. Do not apply Patchwork where creeping bentgrass is present and low temperatures are expected to occur.

In periods of environmental stress, a single additional application of Patchwork may be applied to areas of creeping bentgrass for up to 4 weeks after application.

- apply this treatment if rapid elimination of *Poa annua* is a potential problem.
- Refer to the Patchwork label for additional use directions, precautions and limitations before use.

STORAGE AND DISPOSAL

STORAGE: Always store product in original container and in locked storage area. Do not contaminate other pesticides, fertilizers, seeds, water, food or feed by storage or disposal.

PRODUCT 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.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. (PR933&7 042193)