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228-321

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

228-321

Date of Issuance:

FEB 3 1997

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:

Conditional

Name of Pesticide Product:

Riverdale Millenium
TM Premium Selective
Herbide

(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 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 label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 228-321".
- b. Add a heading to the front paneling to read, "For Sale to and Use by Commercial Applicators and Professional Landscapers Only. Not for Sale to or Use by Homeowners."
- c. Revise the groundwater contamination statement in the Environmental Hazards section to read as follows:
"Clopyralid, an active ingredient in this product, may leach through soil into groundwater under certain conditions of use. Use of this product where soils

Signature of Approving Official:

Date:

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are permeable, particularly where the water table is shallow, may result in leaching to groundwater. Caution should be exercised when handling this product at mixing, loading, and disposal sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this product will reduce the probability of spills. Placement of mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination."

4. Under the "Storage and Disposal" statement add the following sentence under the heading, "Do not contaminate water, food or feed by storage or disposal."
5. Submit one copy of the revised final printed label for the record 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(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

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

Enclosure

3047

RIVERDALE

MILLENIUM™ PREMIUM SELECTIVE HERBICIDE

FOR THE CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS IN ORNAMENTAL TURF

CONTAINS 2,4-D, TRICLOPYR, AND CLOPYRALID

ACTIVE INGREDIENTS:

| | |
|---|--------|
| Triisopropanolamine Salt of 2,4-Dichlorophenoxyacetic Acid* | 50.7% |
| Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid** | 3.8% |
| 3,6-Dichloro-2-Pyridinecarboxylic Acid*** | 1.3% |
| INERT INGREDIENTS | 44.2% |
| TOTAL | 100.0% |

By Isomer Specific AOAC Method, Equivalent to:

| | | |
|---|-------|----------------|
| *2,4-Dichlorophenoxyacetic Acid | 27.2% | 2.67 lbs./gal. |
| **3,5,6-Trichloro-2-Pyridinyloxyacetic Acid | 2.7% | 0.27 lbs./gal. |
| ***3,6-Dichloro-2-Pyridinecarboxylic Acid | 1.3% | 0.13 lbs./gal. |

Millenium™ - Trademark of Riverdale Chemical Company

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

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

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

EPA REG. NO. 228-

NET CONTENTS

GALS.

EPA EST. NO. 228-IL-1

MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY

GLENWOOD, ILLINOIS 60425-1584

NOTE: Spanish language is optional

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 3 1997

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

228-321

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(Inside Booklet)

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS****DANGER - PELIGRO**

Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through skin. Do not get in eyes, on skin or clothing. When using this product, wear long-sleeved shirt, long pants, socks, shoes, rubber gloves, and eye protection. It is recommended that safety glasses include front, brow, and temple protection. After using this product, rinse glasses before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried. The maximum number of broadcast applications per treatment site is 2 per year. Wash thoroughly with soap and water after handling. Remove contaminate clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

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

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

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED: Promptly drink a large quantity of milk, egg white, gelation solution, or if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate use of gastric lavage.

ENVIRONMENTAL HAZARDS

Drift or runoff may adversely affect nontarget plants. 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. Do not apply this product through any type of irrigation system.

Do not apply in or on ditches used to transport irrigation water, nor where runoff or irrigation water may flow into susceptible crops as injury to crops may occur.

Most cases of ground water contamination involving herbicides such as 2,4-D and clopyralid have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MILLENIUM™ PREMIUM SELECTIVE HERBICIDE is a broad-spectrum herbicide for control of actively growing annual and perennial broadleaf weeds. It is for use on established Ornamental Turf such as Lawns, Parks, Cemeteries, Roadsides, Golf Courses (Fairways, Aprons, and Roughs), and similar non-crop areas. Do not use on Golf Greens nor Tees. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production or for research purposes.

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Millenium may be applied to the following established turfgrass species:

Established Cool Season Turfgrasses

| Common Name | Scientific Name |
|----------------------|--|
| bentgrass† | <i>Agrostis species</i> |
| bluegrass, Kentucky | <i>Poa pratensis</i> |
| fescue, chewing | <i>Festuca rubra</i> var. <i>commutata</i> |
| fescue, creeping red | <i>Festuca rubra</i> |
| fescue, sheeps | <i>Festuca ovina</i> |
| fescue, tall | <i>Festuca arundinaceae</i> |
| ryegrass, perennial | <i>Lolium perenne</i> |

Established Warm Season Turfgrasses††

| Common Name | Scientific Name |
|---|-------------------------------|
| bahiagrass† | <i>Paspalum notatum</i> |
| bermudagrass† | <i>Cynodon dactylon</i> |
| buffalograss | <i>Buchloe dactyloides</i> |
| centipedegrass† | <i>Eremochloa ophiuroides</i> |
| zoysiagrass† | <i>Zoysia japonica</i> |
| zoysiagrass† | <i>Zoysia tenuifolia</i> |
| fescue, tall (growing in warm season areas) | <i>Festuca arundinacea</i> |

†Do not apply to these turfgrass species unless potential turfgrass injury can be tolerated. Also, when treating these turfgrass species, do not apply more than 3 pints per acre. To minimize grass injury, additional applications should be made at least four weeks apart. Avoid swath overlaps.

††Do not treat warm season turfgrass with Millenium when mowing height is less than 1/2 inch.

Note: Millenium may discolor and/or stunt turf that is not well-established or is stressed or weakened due to unfavorable climatic conditions, temperature extremes, drought, nematodes, or other factors which damage or weaken turf. Apply this product only to healthy, well-established turf that has a well-anchored root system. Do not apply this product to grass species not listed on this label unless potential turf injury can be tolerated.

USE PRECAUTIONS

Do not apply this product directly to, or otherwise permit drift or spray mist to come into contact with cotton, citrus, grapes, tobacco, vegetables, flowers, ornamental plants, shrubs, trees, and other desirable plants. Do not pour spray solutions near desirable plants. Avoid fine mists. Use lawn type sprayer with coarse spray as wind drift is less likely. Spray drift can be reduced by spraying when wind velocity is low, keeping spray boom as low as possible, using nozzles that deliver larger spray droplets and minimize the production of fine spray particles, and by using higher spray volumes and lower pressures. Applications should be made only when hazards from spray drift are at a minimum. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured. Do not apply to exposed roots of shallow rooted trees and shrubs. Do not use grass clippings from turf treated with this product for mulch or compost. Maximum kill of weeds will be obtained from Spring or early Fall applications when weeds are actively growing. Do not apply more than 4 pints per acre per application. Mow newly seeded turf at least twice before treatment with Millenium.

For optimum results: (1) avoid applying during excessively dry or hot periods unless irrigation is used; (2) avoid applying if rainfall is expected within 6 hours, nor should lawns be irrigated (watered) for 6 hours following application; (3) turf should not be mowed 1 to 2 days before and following application; (4) reseed no sooner than 3 to 4 weeks after application of this product.

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WEEDS CONTROLLED AND USE RATE RECOMMENDATIONS

| Weeds Controlled | Suggested Use Rate | |
|--|--|---|
| | (pints/Acre) | (fluid ounces/ 1,000 square feet) |
| black medic chickweed chicory clover dandelion dock henbit lambquarters, common | 3 pints | 1.1 fluid ounces |
| mallo pigweed plantain, broadleaf plantain, buckhorn ragweed shepherdspurse yarrow | | |
| lespedeza healall poison ivy | 4 pints† | 1.5 fluid ounces |
| smartweed thistle, musk wild carrot | | |
| ground ivy spurge, prostrate thistle, Canada | 3 pints, 2 applications 3 to 4 weeks apart | 1.1 fluid ounces, 2 applications 3 to 4 weeks apart |

†The maximum use rate for most warm season grasses is 3 pints per acre. For exceptions, see listing of warm season grasses listed above.

TURF APPLICATION DIRECTIONS

Apply 3 to 4 pints of Millenium per acre to control above listed broadleaf weeds.

Make application using equipment that will ensure uniform coverage (see specific application directions below). Foliar sprays should be applied during warm weather when weeds are actively growing. Application under drought conditions may provide less than desirable results. When hard-to-control species are prevalent, when applications are made in late Summer, when weeds are mature, or during drought conditions, use the higher rates.

Note: Broadleaf weeds germinate at different times of the year. Only emerged weeds present at the time of application will be controlled by Millenium.

Standard Volume Broadcast Applications: Apply 3 to 4 pints of Millenium in enough water to deliver 20 to 200 gallons of total spray mix per acre (0.5 to 5 gallons spray per 1,000 square feet). Higher application volumes may be used when this product is tank mixed with liquid fertilizers.

Low Volume Broadcast Applications: Apply 3 to 4 pints of Millenium in enough water to deliver from 5 to 40 gallons of total spray mixture per acre. Use low pressures and application equipment capable of delivering a uniform droplet size that can wet the weed leaf surface.

Targeted Zone Applications or Spot Treatment Using Portable Sprayers: Mix 0.5 to 1.0 ounces of Millenium in enough water to make one gallon of spray and apply at any time broadleaf weeds are actively growing. Target plants should be sprayed to wet but not beyond point of runoff.

STORAGE AND DISPOSAL

STORAGE: Always store pesticides in a secured warehouse or storage building. Do not store near open containers of herbicides and other pesticides, fertilizer and seed. Store at temperatures above 28°F or agitate before using. Containers should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food or feed by storage or disposal.

PRODUCT DISPOSAL: Pesticide wastes are acutely hazardous. If container is damaged or if pesticide has leaked, contain all spillage. Absorb and clean up all spilled material

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with granules or sand. Place in a closed, labeled container for proper disposal. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL FOR NON-REFILLABLE CONTAINERS: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONTAINER DISPOSAL FOR REFILLABLE CONTAINERS: Close all openings which have been opened during use and replace all caps. Contact Riverdale Chemical's Customer Service Department at 1-708/754-3330, to arrange for return of the empty refillable container.

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 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, including the use of this product on turf species not recommended on this label.

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