

228-382

5/17/2001

Yellow 1/7



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

EPA Reg. Number:

228-382

Date of Issuance:

MAY 17 2001

Term of Issuance:

Conditional

Name of Pesticide Product:

Riverdale Millennium
Ultra Plus

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Riverdale Chemical Company
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60521-0866

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/cite all data required for the registration/reregistration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 228-382."
3. Under the "Statement of Practical Treatment" revise the ocular statement to read as: "Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice."

Signature of Approving Official:

Date:

MAY 17 2001

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4. Under the "Environmental Hazards" section, in the second paragraph, add the following statement as the third sentence in the paragraph: "Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites."

5. Submit two copies of the revised final printed label for the record.

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

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.

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

Enclosure

RIVERDALE

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MILLENNIUM ULTRA™ PLUS

FOR SELECTIVE GRASS AND BROADLEAF WEED CONTROL
IN ORNAMENTAL LAWNS AND TURF GRASSES

CONTAINS 2,4-D, CLOPYRALID, DICAMBA AND MSMA

CONTROLS: Grasses such as Large (Hairy) Crabgrass, Smooth Crabgrass,
Southern Crabgrass, Dallisgrass, Dandelion, Chickweed,
Black medic, Knotweed, Nutsedge, Plantain, Oxalis, Clover, Cocklebur,
Spurge, Thistle and many other species of grass and
broadleaf weeds; some of which are listed on this label.

ACTIVE INGREDIENTS:

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*	6.02%
Monoethanolamine Salt of 3,6-Dichloro-2-Pyridinecarboxylic Acid**	0.82%
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)***	0.75%
Monosodium Acid Methanearsonate	18.00%
INERT INGREDIENTS:	74.41%
TOTAL	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	5.00%	0.500 lbs./gal.
**3,6-Dichloro-2-Pyridinecarboxylic Acid	0.62%	0.060 lbs./gal.
***3,6-Dichloro-o-Anisic Acid	0.62%	0.060 lbs./gal.
Also Contains Monosodium Methanearsonate.	18.00%	1.800 lbs./gal.
Total Arsenic (as elemental) all in water soluble form.	8.33%	

Millennium Ultra™ - Is A Trademark of Riverdale Chemical Company

NOT FOR SALE OR USE IN NASSAU AND SUFFOLK COUNTIES IN N.Y. STATE

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

EPA REG. NO. 228-GIE

NET CONTENTS

GALS.

EPA EST. NO. 228-IL-1

MANUFACTURED BY
RIVERDALE CHEMICAL COMPANY
GLENWOOD, ILLINOIS 60425-1584

11/1/00 Corrected order of AI #'s

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 17 2001

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
228-082

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(Inside Booklet)

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

Causes moderate eye irritation. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear long pants, long-sleeved shirt, socks, shoes, and rubber gloves when mixing, loading, or applying this product. In addition to the clothing listed above, commercial mixer/loaders must wear chemical resistant in place of rubber gloves except when the product is to be applied to a golf course. After using this product, rinse gloves 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. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

If this container is over one gallon and less than five gallons, then persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron. If this container is five gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.
- IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.
- IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and 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. When cleaning equipment, do not pour washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate water used for irrigation or domestic purposes.

Clopyralid, an active ingredient in this product, may leach through soil into groundwater under certain conditions of use. Use of this product where soils 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 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. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

Millennium Ultra™ Plus is for use on Ornamental Turf, such as Lawns, Parks, Cemeteries, Golf Courses (Fairways, Aprons, Tees and Roughs) and similar non-crop areas. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production or for research purposes.

USE PRECAUTIONS

Avoid drift of spray mist to vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Do not pour spray solutions near desirable plants. Do not use on Carpetgrass, Centipede, St. Augustine, Dichondra, Red Fescue, nor on lawns or turf where desirable clovers are present. Avoid fine mists. Use lawn type sprayer with coarse spray as wind drift is less likely. Avoid contact with exposed feeder roots of ornamentals and trees. Maximum control of weeds will be obtained from Spring or early Fall applications when weeds are actively growing. Do not spray while grass is emerging from dormancy. Do not apply to newly seeded lawns until after the third mowing. Use the higher rate for hard-to-control weeds. Do not exceed specified dosages for any area; be particularly careful within the dripline of tree and other ornamental species. Do not apply to newly seeded grasses until well established. Weed control is best achieved when temperatures are above 70°F. Do not spray when air temperature exceeds 85°F on cool season grasses and 90°F on warm season grasses. Do not apply when drought conditions exist. Do not use grass clippings from turf treated with this product for composting in the growing season of application or for mulch for 10 weeks following application.

The suitable use of Millennium Ultra Plus on non-recommended turf species may be determined by treating a small area at any rate/acre which does not exceed 8 pints/acre on cool season grasses and 13 pints/acre on warm season grasses. The treated area should be observed for any sign of turf injury for a period of 30 days of normal growing conditions to determine the phytotoxicity and efficacy to the treated area.

For optimum results: (1) avoid applying during excessively dry or hot periods unless irrigation is used; (2) turf should not be mowed 1 to 2 days before and following application; (3) reseed no sooner than 3 to 4 weeks after application of this product. Be sure soil is moist and lawn healthy before application. If turf is showing stress due to high temperatures and/or drought, irrigation is recommended 2 to 3 days after treatment. Temporary discoloration may occur. High spray volumes may reduce the turf discoloration. Adding oil, wetting agent, or other surfactant to the spray may be used to increase effectiveness on weeds but doing so may reduce selectivity to turf resulting in turf damage. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other sprays.

GRASSES AND WEEDS CONTROLLED BY MILLENNIUM ULTRA PLUS

Alder, Alfalfa, Artichoke, Aster, Austrian fieldcress, Bedstraw, Beggartick, Bident, Bindweed, Bitter wintercress, Bitterweed, Black medic, Blackeyed Susan, Blessed thistle, Blue lettuce, Box elder, Broomweed, Buckbrush, Buckhorn, Buffalobur, Bull thistle, Bur ragweed, Burdock, Burhead, Buttercup, Canada thistle, Carpetweed, Catnip, Chamise, Cherokee rose, Chickweed, Chicory, Cinquefoil, Clover, Coastal redstem sage, Cockle, Cocklebur, Coffee bean, Coffeeweed, Common groundsel, Common sowthistle, Common sunflower, Cornflower (bachelor button), Corn speedwell, Coyotebrush, Crabgrass, Creeping jenny, Croton, Curly Indigo, Dallisgrass, Dandelion, Devil's claw, Dock, Dogbane, Dogfennel, Elderberry, English daisy, False Chamomile (scentless), Fanweed, Fiddle neck, Flea bane (daisy), Flixweed, Florida pusley, Frenchweed, Galinsoga, Goatsbeard, Goldenrod, Goosefoot, Goosegrass, Ground ivy, Gumweed, Halogeton, Hawkweed, Healall, Heartleaf drymary, Hemp, Henbit, Hoary cress, Hop clover, Honeysuckle, Horestail, Horsetweed, Indiana mallow, Indigo, Ironweed, Jerusalem artichoke, Jewelweed, Jimsonweed, Klamathweed,

Knapweed (diffuse, Russian, & spotted), Knawel, Knotweed, Kochia, Ladysthumb, Lambsquarter, Lespedeza, Little starwort, Locoweed, Lupine, Mallow, Many flowered aster, Manzanita, Marijuana, Marshelder, Matchweed, Meadow salsify (goatsbeard), Mexican weed, Milkvetch, Morningglory, Musk thistle, Mustard, Narrowleaf hawksbeard, Nettle, Nightshade (cutleaf & hairy), Nutsedge, Orange hawkweed, Oxalis (stricta and corniculata), Parrotfeather, Parsley-piert, Parsnip, Pennycress, Pennywort, Peppergrass, Pepperweed, Pigweed, Pineappleweed, Pinnate tansymustard, Plantain, Poison hemlock, Poison ivy, Poison oak, Pokeweed, Poorjoe, Povertyweed, Prickly lettuce, Primrose, Puncture vine, Purslane, Rabbitbrush, Ragweed, Red clover, Red sorrel, Redroot pigweed, Redstem, Rush, Russian thistle, Salsify, Sandbur, Sheep sorrel, Shepherdspurse, Sicklepod, Smartweed, Sneezeweed, Southern wild rose, Sowthistle, Spanishneedle, Spatterdock, Speedwell, Spiderwort, Spurge, Spotted catsear, Spurweed, St. Johnswort, Starthistle, Stinging nettle, Stinkweed, Stitchwort, Sumac, Sunflower, Sweet clover, Tansymustard, Tansyragwort, Tarweed, Texas blueweed, Thistle, Toadflax, Tumbleweed, Velvetleaf, Veronica, Vervain, Vetch, Virginia creeper, White clover, Wild aster, Wild buckwheat, Wild carrot, Wild garlic, Wild geranium, Wild lettuce, Wild onion, Wild parsnip, Wild radish, Wild rape, Wild strawberry, Wild sweet potato, Wild violet, Witchweed, Wormseed, Wormwood, Woodsorrell, Yarrow, Yellow rocket, Yellow starthistle, and other broadleaf weeds.

Some of these species may require repeat spot applications and/or use of higher rate recommended on this product label even under ideal conditions for application.

ORNAMENTAL LAWNS AND TURF

Established Bermudagrass and Zoysiagrass: Mix 3 to 5 fluid ounces of Millennium Ultra™ Plus in 1 to 3 gallons of water for treatment of 1,000 square feet or 1 to 1½ gallons of Millennium Ultra™ Plus in 50 to 150 gallons of water for treatment of one acre of turf. Better control is obtained by making applications shortly after crabgrass emergence in the spring which will also control surviving winter annual broadleaf weeds and emerged summer annual broadleaf weeds. A second application may be necessary 10 to 14 days later for dense weed populations, especially dallisgrass. DO NOT apply this product to bermudagrass or zoysiagrass when air temperatures exceed 90°F nor when turf is under stress such as drought.

Zoysiagrass cultivars may vary in the levels of tolerance to applications containing MSMA.

Established Kentucky Bluegrass, Tall Fescue, Turf-Type Tall Fescues (improved and low growing): Mix 3 fluid ounces of Millennium Ultra™ Plus in 1 to 3 gallons of water for treatment of 1,000 square feet of turf or 1 gallon of Millennium Ultra™ Plus in 50 to 15-gallons of water per acre of turf. Make a second application at the same rate 10 to 14 days after the first application. Make spring applications to newly emerged crabgrass and for broadleaf weed control, including oxalis. Summer applications can be made to more mature crabgrass and to broadleaf weeds. DO NOT apply this product to Kentucky bluegrass, tall fescue, or turf-type tall fescues when air temperatures exceed 85°F nor when turf is under stress such as drought.

Injury from this product may occur to mixed stands of Kentucky bluegrass and red fescues (chewing fescue, creeping fescue and spreading fescues). If you are unwilling to accept some degree of turf injury, then do not use this product for mixed stands.

Spot Treatments for Established Bermudagrass, Zoysiagrass, Kentucky Bluegrass, Tall Fescue, and Turf-Type Tall Fescues: Mix 3 fluid ounces of Millennium Ultra™ Plus in 1 gallon of water for treatment of 1,000 square feet of turf. Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants. Withhold sprinkling or irrigation for 24 hours after application. Two or more repeat applications at 10 to 14 day intervals may be required. Temporary discoloration of the turfgrass may occur.

NOTE: For all grasses (1) Do not overlap spray patterns; and (2) Use reduced rates if grass is stressed from heat, drought, etc.

STORAGE AND DISPOSAL

STORAGE: Always use original container to store pesticides in a secured warehouse or storage building. Do not store near open containers of fertilizers, seeds, or other pesticides. Store at temperatures above 32°F. If allowed to freeze, remix before using. This does not alter this product. 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.

PESTICIDE 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 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, contract your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent), adding rinsate to spray tank. 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.

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.