



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

EPA Reg. Number:
228-362

Date of Issuance:
NOV 12 1999

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Riverdale XRM-5202
Lite Premium Selective
Herbicide

(under FIFRA, as amended,

Name and Address of Registrant (include ZIP Code):

Riverdale Chemical Company
425 West 194th Street
Glenwood, IL 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 before you release the product for shipment:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 228-362".
- b. Make the following revisions to the Precautionary Statements:
 - i. Revise the statement reading "Harmful if swallowed" to read "Harmful if swallowed, inhaled or absorbed through skin."
 - ii. Revise the statement reading "Avoid contact with eyes or clothing" to read "Do not get in eyes, on skin or on clothing."

Signature of Approving Official:

Date:

NOV 12 1999

- c. Add an oral statement and an inhalation statement to the current Statement of Practical Treatment. These statements should read as follows:

"IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol."

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

- d. Delete "maintenance personnel" from the front panel sale and use prohibition, so that it reads "For Sale To And Use By Commercial Applicators And Professional Landscapers Only. Not For Sale To Or Use By Homeowners".
- e. Correct the product name at the beginning of the first paragraph under the Directions for Use heading (and misuse prohibition statement) to read "XRM-5202 Lite Premium Selective Herbicide." In addition, the portion of the second sentence of this paragraph reading "...Ornamental Turf such as Lawns, Parks, Cemeteries, Roadsides, Golf Courses (Fairways,..." occurs twice, once at the bottom of page 2 and again at the top of page 3. One of these should be deleted.
- f. Within the Storage and Disposal block, relocate the statement reading "Do not contaminate water, food or feed by storage and disposal", currently appearing within the Storage section, so that it appears directly beneath the Storage and Disposal heading.

3. Submit an acceptable storage stability study (830.6317) and an acceptable corrosion characteristics study (830.6320) within one (1) year after the date of this Notice.

4. 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.

page 3
 EPA Reg. No. 228-362

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

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

Enclosure

DK:305-7546:HB/PM23

CONCURRENCES

SYMBOL	7505C							
SURNAME	D. KENNY							
DATE	11/12/99							

4 7 8

RIVERDALE

XRM-5202 LITE 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*	20.00%
Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid**	1.48%
3,6-Dichloro-2-Pyridinecarboxylic Acid***	0.51%
INERT INGREDIENTS	78.01%
TOTAL	100.0%

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	10.73%	0.95 lbs./gal.
**3,5,6-Trichloro-2-Pyridinyloxyacetic Acid	1.06%	0.09 lbs./gal.
***3,6-Dichloro-2-Pyridinecarboxylic Acid	0.51%	0.05 lbs./gal.

FOR SALE TO AND USE BY COMMERCIAL APPLICATORS, MAINTENANCE PERSONNEL AND PROFESSIONAL LANDSCAPERS ONLY.
NOT FOR SALE TO OR USE BY HOMEOWNERS.

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

NOV 12 1999

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

228-362

(Inside Booklet)

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

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Avoid contact with eyes 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 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. 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 contaminated clothing and wash before reuse.

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

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, or if available by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

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.

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 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.

DIRECTIONS FOR USE

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

XRM-5202™ 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,

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 or 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.

XRM-5202 Lite may be applied to the following established turfgrass species:

Established Cool Season Turfgrasses

Common Name	Scientific Name
bentgrass†	Agrostis species
bluegrass, Kentucky	Poa pratensis
fescue, chewing	Festuca rubravar. commutata
fescue, creeping red	Festuca rubra
fescue, sheeps	Festuca ovina
fescue, tall	Festuca arundinaceae
ryegrass, perennial	Lolium perenne

Established Warm Season Turfgrasses††

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

†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 7.6 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 XRM-5202 Lite when mowing height is less than 1/2 inch.

Note: XRM-5202 Lite 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 10.1 pints per acre per application. Mow newly seeded turf at least twice before treatment with XRM-5202.

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.

WEEDS CONTROLLED BY XRM-5202 PREMIUM SELECTIVE HERBICIDE

This product is designed to promote lush green growth in lawns and control many broadleaf weeds such as: Acacia, Alder, Artichoke, Aster, Austrian fieldcress, Bachelor button, Beggartick, Bide, Bindweed, Bitterweed, Bitter wintercress, Black medic, Blessed thistle, Blue lettuce, Box elder, Broomweed, Buckhorn, Buckwheat, Buffalobur, Bull thistle, Burdock, Bur ragweed, Buttercup, Canada thistle, Carpetweed, Catnip, Chamomile, Chickweed, Chicory, Clover, Cockle, Cocklebur, Coffeebean, Coffeeweed, Common sowthistle, Cornflower, Creeping jenny, Croton, Curly indigo, Dandelion, Dock, Dogbane, Dog fennel, Elderberry, Fanweed, Flea bane (daisy), Flixweed, Florida pusley, Frenchweed, Galinsoga, Goatsbeard, Goldenrod, Ground ivy, Groundsel, Gumweed, Hawksbeard, Hawkweed, Healall, Hemp, Henbit, Hoary cress, Honeysuckle, Horsetail, Horseweed, Indiana mallow, Ironweed, Jewelweed, Jimsonweed, Kochia, Knapweed, Knotweed, Kudzu, Ladysthumb, Lambsquarter, Lespedeza, Locoweed, Lupine, Mallow, Marshelder, Meadow salsify, Mexicanweed, Morningglory, Musk thistle, Mustard, Nettle, Nightshade, Orange hawkweed, Oxalis, Parsnip, Pennycress, Pennywort, Peppergrass, Pepperweed, Pigweed, Plantain, Poison hemlock, Poison ivy, Poison oak, Pokeweed, Poorjoe, Povertyweed, Prickly lettuce, Primrose, Puncture vine, Purslane, Ragweed, Red clover, Red sorrel, Rush, Russian thistle, St. Johnswort, Shepherdspurse, Sicklepod Smartweed, Sneezeweed, Southern wild rose, Sowthistle, Spanishneedle, Spatterdock, Speedwell, Spurge, Starthistle, Stinkweed, Sumac, Sunflower, Sweet clover, Tansy Ragwort, Tarweed, Teasel, Thistle, Toadflax, Tumbleweed, Velvet leaf, Veronica, Vervain, Vetch, Virginia creeper, Wild aster, Wild carrot, Wild geranium, Wild lettuce, Wild radish, Wild rape, Wild strawberry, Wild sweet potato, Willow, Witchweed, Wormseed, Yarrow, Yellow rocket, and other broadleaf weeds.

After applying this product, many broadleaf weeds will begin to show visible signs of leaf curl within a few days. Some hard-to-control broadleaf weeds may require a second broadcast treatment in 3 to 4 weeks. In the event more than two broadcast applications per year are necessary, use as a spot treatment. To spot treat, make up solution as listed below.

TURF APPLICATION DIRECTIONS

Apply 7.6 to 10.1 pints of XRM-5202 Lite per acre (2.8 to 3.8 ozs./1,000 sq.ft.) to control above listed broadleaf weeds.

The maximum use rate for most warm season grasses is 7.6 pints per acre. For exceptions, see listing of warm season grasses listed above.

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.

On closely mowed golf course fairway bentgrass, apply this product at a maximum rate of 5.1 pints in 20 to 240 gallons of water per acre (1.8 fluid ounces in 0.5 to 5.5 gallons of water per 1000 square feet). During conditions which promote turf stress use lower rates, 2.5 to 3.8 pints in 20 to 240 gallons of water, per acre (0.9 to 1.4 fluid ounces in 0.3 to 5.5 gallons per 1000 square feet). Slight turf yellowing will disappear after one week. To minimize grass injury, a second application should not be made for at least 4 weeks. Avoid swath overlaps. Do not use on golf course greens or tees.

Note: Broadleaf weeds germinate at different times of the year. Only emerged weeds present at the time of application will be controlled by XRM-5202 Lite.

Standard Volume Broadcast Applications: Apply 7.6 to 10.1 pints of XRM-5202 Lite in enough water to deliver 20 to 200 gallons of total spray mix per acre (1.3 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 7.6 to 10.1 pints of XRM-5202 Lite 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 1.3 to 2.5 ounces of XRM-5202 Lite 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.

Herbi™ Controlled Droplet Applicator: Add 3.4 to 4.4 pints of XRM-5202 Lite to the 5 pint Herbi bottle, then fill with water to make 5 pints of mixture or substitute 1/2 pint of a surfactant for water while agitating the solution. While walking at approximately 1 pace (3 feet) per second, spray entire contents over 19,000 square feet (.44 acre). Do not overlap (double coverage) at edge of spray patterns. Reduced rates (use 1/2 of rate shown above) of XRM-5202 Lite must be applied when grass is stressed from heat, drought, etc. Herbi™ is a trademark of North American Micron.

Controlled Droplet Applicators - (CDA), Atomizers, and Spinning Disk Applicators: Use XRM-5202 at the rate of 7.6 to 10.1 pints per acre (2.8 to 3.8 fluid ounces per 1,000 square feet) in sufficient water to assure coverage (1 to 4 gallons of water per acre is normal for this type of equipment).

Note: Follow CDA equipment spray instructions.

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 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.

(ERP 102393) (PR93&21 042194)