

228-373

2/25/2000

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Rease read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-95

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 257259
	Application for Pesticide - Section I		

1. Company/Product Number 228-373	2. EPA Product Manager J. Miller J. Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Riverdale Mission™ Selective Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Riverdale Chemical Company 425 West 194th Street Glenwood, IL 60425-1584 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ FEB 25 2000 Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Changing official product name to Riverdale Manor™ Selective Herbicide.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes * <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product		<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Russell F. Sawyer	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) 708/754-3330
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Affairs Manager	
4. Typed Name Russell F. Sawyer	5. Date 1/3/00	

RIVERDALE

MANOR™ SELECTIVE HERBICIDE

A Water Dispersible Granule

Selectively controls annual and perennial weedy grasses and broadleaf weeds, including rosette and vining type dicots. Also controls Bahiagrass in Bermudagrass areas.

Recommended for use by professional turfgrass Managers

ACTIVE INGREDIENT:

Metsulfuron Methyl Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)-amino]carbonyl]amino]sulfonyl]benzoate	60.0%
INERT INGREDIENTS:	40.0%
TOTAL	100.0%

MANOR™ IS A TRADEMARK OF RIVERDALE CHEMICAL COMPANY

U.S. Patent 4,388,113

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 2 OZS.

EPA REG. NO. 228-373

EPA Est. NO. 352-WV-1

NOTIFICATION
FEB 25 2000

MANUFACTURED BY
RIVERDALE CHEMICAL COMPANY
GLENWOOD, ILLINOIS 60425-1584

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

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes, socks and chemical resistant (Category A) gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROL STATEMENTS:

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

STATEMENT OF PRACTICAL TREATMENT

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

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 apply where runoff water may flow, during periods of intense rainfall or to water saturated soils as off-target movement and injury may occur. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system.

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

Use this product only in accordance with its labeling and with the Workers Protection Standard, 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 specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 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, shoes, socks and chemical resistant (Category A) gloves.

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. Do not enter treated areas without protective clothing until sprays have dried.

Manor™ Selective Herbicide is for use on Ornamental Turf, such as Lawns, Parks, Cemeteries, Golf Courses (Fairways, Aprons, Tees and Roughs) and similar non-crop areas. This product may also be used on Sod Farms.

Controls the following perennial and annual weedy grasses:

Bahiagrass

Foxtail

Ryegrass

Controls the following broadleaf (dicot) weeds:

Annual sowthistle
Aster
Bittercress
Blue mustard
Buckhorn
Bur buttercup
Canada thistle
Carolina geranium
Chicory
Clover (white)
Common chickweed
Common groundsel
Common mullein
Common purslane
Common sunflower

Common yarrow
Conical catchfly
Cow cockle
Crown vetch
Curly dock
Dandelion
Dog fennel
False chamomile
Fiddleneck tarweed
Field pennycress
Flixweed
Goldenrod
Henbit
Hoary cress (whitetop)
Kochia

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Lambsquarters	Tansy mustard
Miners lettuce	Treacle mustard
Pennsylvania smartweed	Tumble mustard
Plantain	Virginia buttonweed
Prickly lettuce	Wild carrot
Prostrate knotweed	Wild celery
Redroot pigweed	Wild garlic
Redstem filaree	Wild lettuce
Shepherdspurse	Wild mustard
Smallseed flaxweed	Wild onion
Smooth pigweed	Wood sorrel (oxalis)
Spurge (prostrate)	
Sweet clover	

For use only on Kentucky Bluegrass, fine Fescue, Bermudagrass and St. Augustine grass turf areas.

USE PRECAUTIONS

Use lower rates for minimum chlorosis of the turf.

Do not apply Manor Selective Herbicide to turf under stress from drought, insects, disease, cold temperatures, high temperatures of above 85°F on cool season grasses, or poor fertility as injury may result.

Do not apply to turf less than 1 year old.

Do not use on Bahiagrass where it is the desired turf, as severe injury may result.

Do not plant ornamentals such as shrubs, and trees in treated areas for at least 1 year after the last application, or bedding plants for at least 2 years.

IMPORTANT

Addition of a nonionic surfactant of at least 80% active ingredient at 0.25 percent by volume (1 qt/gal) provides maximum performance, but may temporarily increase chlorosis of the turf.

Allow one week between the application of Manor Selective Herbicide and other control (pesticide containing) products. (This guideline can be relaxed where severe insect or disease attack requires immediate treatment).

DO NOT USE ON FOOD OR FEED CROPS. Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply Manor (except as recommended) or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

When overseeding, wait 2 months (8 weeks) after application. Do not apply to any body of water, including streams, irrigation water or wells. Do not apply where runoff water may flow onto agricultural land, as injury to crops may result.

Do not allow spray drift onto adjacent crops or other desirable plants or trees as injury may occur.

Follow these practices to minimize drift:

- Stop spraying if wind speed becomes excessive. Spray drift can occur at wind speeds less than 10 MPH. If sensitive plants are downwind, extreme caution must be used. Do not spray if winds are gusty.

- High temperatures, drought and low relative humidity increase the possibility of harmful spray drift. Caution must be used when these conditions are present and sensitive plants are nearby.
- Use large droplet size sprays to minimize drift.
- Use spray pressures of 35 psi or less when applying this product.

HOW TO USE

Use spray volumes of 20 to 80 gal/acre and pressures of 25 to 35 psi at the following rates of Manor Selective Herbicide for the weeds listed below:

0.125 to 0.25 OZ. PRODUCT/ACRE

ryegrass (greens)

0.25 to 0.33 OZ. PRODUCT/ACRE

Bittercress	Ground ivy (Fall)
Blue mustard	Parsley-piert
Bur buttercup	Prostrate spurge
Chickweed	Redstem filaree
Chicory	Spurweed
Clover (white)	Wild carrot
Creeping beggarweed	
Dandelion	
Field pennycress	

0.33 to 0.5 OZ. PRODUCT/ACRE

Annual sowthistle	Ryegrass (fairways)
Aster	Seedling dogfennel
Carolina geranium	Shepherdspurse
Common yarrow	Smooth pigweed
Crown vetch	Smallseed falseflax
Florida betony	Sweet clover
Ground ivy (Spring*)	Tansy mustard
Henbit	Treacle mustard
Lambsquarters	Tumble mustard
Lespedeza	Wild celery
Miners lettuce	Wild garlic
Plantain	Wild lettuce
Prickly lettuce	Wild Onion
Ragweed	Woodsorrel (oxalis)
Redroot pigweed	

0.25 to 0.75 OZ. PRODUCT/ACRE

Bahiagrass*

0.5 to 1 OZ. PRODUCT/ACRE

Brazil pusley	Dogfennel
Buckhorn plantain	Dollarweed*
Canada thistle**	Florida pusley
Curly dock	Foxtail
Common groundsel	Hoarycress (whitetop)
Common purslane	Kochia
Common sunflower	Pennsylvania smartweed
Crabgrass	Plantain

Prostrate knotweed
Sida (southern) 3

Virginia buttonweed***
Wild mustard

*A repeat application may be required in 4 to 6 weeks.

**Suppression only involving a visual reduction in competition compared to an untreated area.

***Controls seedling Virginia buttonweed. Suppression only of more mature plants. Repeat application may be required in 4 to 6 weeks.

The required amount of Manor Selective Herbicide should be added when the spray tank is half full of water and, with agitator running, add the proper amount of product. Finish adding the required amount of water. Continuous agitation is required to keep the product in suspension.

Spray preparations of this product may degrade in acid solutions if not used in 24 hours; it is stable in alkaline solutions. Thoroughly reagituate before using.

Tank mixes with other registered herbicides should be tested for compatibility before full scale mixing. Use mechanical or bypass agitation to thoroughly mix the spray suspension. It is not necessary to premix this product with water in a separate container prior to adding it to the spray tank. This product should always be added to the tank first, before any other herbicides or adjuvants.

Use on Kentucky Bluegrass and Fine Fescue: Apply 0.25 to 0.5 oz of Manor Selective Herbicide per acre for control of the listed weeds. Do not exceed 0.5 oz per acre within a 9-month period.

Use on St. Augustinegrass, Bermudagrass and Zoysiagrass (Meyers and Emerald): Apply 0.25 to 1.0 oz of Manor per acre for weed control. Some chlorosis or stunting of the turfgrass may occur following application.

Bahiagrass Control: For the selective control of Bahiagrass in Bermudagrass turf, use 0.25 to 0.75 oz of Manor Selective Herbicide per acre. Use the higher rates of the range on Argentine, Common and Paraguayan Bahiagrass. Apply a repeat treatment in 4 to 6 weeks if necessary. Some chlorosis or stunting of the Bermudagrass may occur following the application.

Use on Centipedegrass: Apply 0.25 to 0.5 oz. of this product per acre for weed control. Some chlorosis or stunting of the turfgrass may occur following the application.

IMPORTANT: Addition of a nonionic surfactant of at least 80% active ingredient at 0.25 percent by volume (1 qt/100 gal) provides maximum performance, but may temporarily increase chlorosis of the turf.

Allow one week between the application of Manor and other control (pesticide-containing) products. (This guideline can be relaxed where a severe insect or disease attack requires immediate treatment.)

RECOMMENDED SPRAYER CLEANUP

Immediately after spraying thoroughly remove all traces of Manor Selective Herbicide from mixing and spray equipment as follows:

- 1) Drain tank, rinse interior surface of tank, then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
- 2) Fill the tank with clean water, then add an ammonia cleaning solution. Use one gallon ammonia (containing 3% active) per 100 gallons of water. Turn on sprayer long enough to flush through boom, hoses and nozzles. Stop spraying, but keep agitator working in the tank for 15 minutes, then drain.

- 3) Repeat Step 2.
- 4) Repeat Step 1.
- 5) Nozzles and screens should then be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.
- 6) Flush boom and hoses with clean water for 5 minutes just prior to using the sprayer for the first time after the Manor application.

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. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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, by incineration, or by burning, if allowed by State and local authorities. 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.

(RV 122099A)