

INSTRUCTION SHEET

Riverdale



SELECTIVE HERBICIDE

- provides control of Bahia-grass in Bermudagrass areas
- provides control of annual and perennial weedy grasses and broadleaf weeds, including rosette-and vining-type dicots

**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%

Net Weight 2.0 oz. (56g)

KEEP OUT OF REACH OF CHILDREN CAUTION

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:

Bahia-grass Foxtail Ryegrass

Controls the following broadleaf(dicot) weeds:

Annual sowthistle	Kochia
Aster	Lambsquarters
Bitlercross	Lespedeza
Blue mustard	Miners lettuce
Brazil pusley	Parsley-piert
Buckhorn	Pennsylvania smartweed
Bur buttercup	Plantain
Canada thistle	Prickly lettuce
Carolina geranium	Prostrate knotweed
Chicory	Prostrate spurge
Clover(sweet)	Ragweed
Clover(white)	Redroot pigweed
Common chickweed	Redstem filaree
Common groundsel	Seedling dogfennel
Common mullein	Shepherdspurse
Common purslane	Sida (southern)
Common sunflower	Smallseed flaxweed
Common yarrow	Smooth pigweed
Creeping beggarweed	Spurweed
Crown vetch	Tansy mustard
Curly dock	Treacle mustard
Dandelion	Tumble mustard
Dog fennel	Virginia buttonweed
Dollarweed	Wild carrot
Field pennycress	Wild celery
Florida betony	Wild garlic
Florida pusley	Wild lettuce
Foxtail	Wild mustard
Ground ivy	Wild onion
Henbit	Wood sorrel (oxalis)
Hoary cress (whitetop)	

For use only on Kentucky Bluegrass, fine Fescue, Bermudagrass, St. Augustinegrass, Zoysiagrass and Centipede 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/100gal) 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 Riverdale 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	Field pennycress
Blue mustard	Ground ivy (Fall)
Bur buttercup	Parsley-plant
Chickweed	Spurweed
Clover (white)	Redstem, filaree
Creeping beggarweed	Wild carrot
Dandelion	

0.33 to 0.5 OZ. PRODUCT/ACRE

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

0.25 to 0.75 OZ. PRODUCT/ACRE

Bahiagrass*

Brazil pusley	Florida pusley
Buckhorn plantain	Foxtail
Canada thistle**	Hoarycress (whiteloop)
Curly dock	Kochia
Common groundsel	Pennsylvania smartweed
Common purslane	Prostrate knotweed
Common sunflower	Sida (southern)
Dogfennel	Virginia buttonweed***
Dollarweed*	Wild mustard

0.5 to 1 OZ. PRODUCT/ACRE

*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 reagitator 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 pre-mix 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.

Uses 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.

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 122099C)

EPA Reg. No. 228-373
U.S. Patent 4,383,113

EPA Est. No. 228-IL-1

Manufactured by:
Riverdale Chemical Company
Glenwood, Illinois 60425-1584

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M373R

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A Water Dispersible Granule
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..... 60.00%

INERT INGREDIENTS: 40.00%

Total 100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See other panel for additional precautionary statements

Net Weight 2.0 oz.

See accompanying hang tag for Directions for Use and Additional Precautions.

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

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Hazards to Humans
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CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

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