

Nufarm

Riverdale[®] Manor[®]

SELECTIVE HERBICIDE

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 60.0%
 OTHER INGREDIENTS: 40.0%

TOTAL: 100.0%

EPA REG. NO. 228-373 EPA EST. NO. 228-IL-1

MANUFACTURED BY
 NUFARM AMERICAS INC.,
 BURR RIDGE, IL 60527-0866

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT 2 OUNCES

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

For Chemical Spill, Leak, Fire, or Exposure,
 Call CHEMTREC (800) 424-9300.

For Medical Emergencies Only, Call (877) 325-1840.

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):

Some of the materials that are chemical-resistant to the product are listed below. If you want more options, follow the Category A on an EPA chemical-resistance chart. Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes, socks and chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride. 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 breakdown.

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.

FIRST AID

IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

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

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cleaning of equipment or 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 Worker 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 gloves made of any waterproof material.

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.

This product is for use on Ornamental Turf Lawns (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways, Aprons, Tees and Roughs) and similar turf areas. This product may also be used on Sod Farms.

USE PRECAUTIONS

Use lower rates for minimum chlorosis of the turf.

Avoid applications of this product to turf under stress from drought, insects, disease, during Spring transition, high temperatures of above 85°F on cool season grasses, or poor fertility as injury may result.

Avoid applications of this product to newly sprigged or sodded turf.

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 percent active ingredient at 0.25 percent by volume (1 quart per 100 gallons) provides maximum performance, but may temporarily increase chlorosis of the turf. **Note:** The residual effect of this product is increased in high pH soils.

Allow one week between the application of this product 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 this product (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 miles per hour. 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 pressure of 240 psi or less when applying this product.

RECOMMENDED SPRAYER CLEANUP

This product contains a very active compound at low rates. To thoroughly remove this product from the spray tank, drain and flush with water a minimum of 10 minutes including all hoses, booms, and nozzles.

Fill tank 1/2 full of water and add 1 to 2 gallons of ammonia or 4 pounds of "Nutra-Sol" per 100 gallons of water. Fill tank and circulate for 15 minutes. Repeat procedure and rinse a final time with water. Clean nozzles and screens separately. Do not use the sprayer to treat any trees, shrubs, or ornamental plants after use with this product.

WEEDS CONTROLLED

Controls the following perennial and annual weedy grasses:

Bahiagrass	Foxtail	Ryegrass
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Controls the following broadleaf (dicot) weeds:

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

For use only on Kentucky Bluegrass, fine Fescue, Bermudagrass, St. Augustinegrass, Buffalograss, Zoysiagrass and Centipede turf areas.

HOW TO USE

Use spray volumes of 20 to 90 gal/acre and pressures of 25 to 240 psi at the following rates of this product for the weeds listed below:

0.125 to 0.25 ounce product per acre

Ryegrass (greens)

0.25 to 0.33 ounce product per acre

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

0.33 to 0.5 ounce product per acre

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

0.25 to 0.75 ounce product per acre

Bahiagrass*

0.5 to 1 ounce product per acre

Brazil pusley	Common sunflower	Kochia
Buckhorn plantain	Dogfennel	Pennsylvania smartweed
Canada thistle**	Dollarweed*	Prostrate knotweed
Curly dock	Florida pusley	Sida (southern)
Common groundsel	Foxtail	Virginia buttonweed***
Common purslane	Hoarycress (whitotop)	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 this product 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 ounce of this product per acre for control of the listed weeds. Do not exceed 0.5 ounce per acre within a 9-month period.

Use on St. Augustinegrass, Bermudagrass, Buffalograss and Zoysiagrass (Meyers and Emerald)

Apply 0.25 to 1.0 ounce of this product 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 ounce of this product 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 ounce of this product per acre for weed control. Some chlorosis or stunting of the turfgrass may occur following the 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 fertilizer, seed, 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

Seller 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.

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