

228-313

8/12/2003

Page 187 <sup>Index</sup>

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460



OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

August 12, 2003

Mr. Russell F. Sawyer  
Nufarm Americas, Inc.  
Riverdale - A Nufarm Company  
1333 Burr Ridge Parkway, Suite 125A  
Burr Ridge, IL 60527-0866

Dear Mr. Sawyer:

Subject: Riverdale Horsepower Selective Herbicide  
EPA Reg. No. 228-313 ✓  
Re: Label Amendment  
Your submission dated March 21, 2003

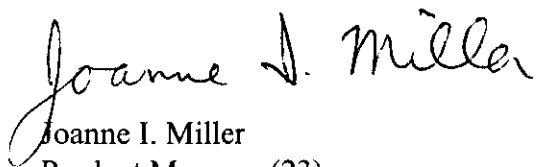
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you make the labeling changes listed below:

1. On the "Residential" Ornamental Turf Labeling the following sites are acceptable; Lawn, Lawns, Ornamental Lawns, Ornamental Turf Lawns, Residential Turf, Established Residential Turf, or Residential Turf Lawns. All other sites must be deleted from the "residential" label.

Please submit one (1) copy of your final printed labeling 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 section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

A handwritten signature in cursive script that reads "Joanne I. Miller". The signature is written in black ink and is positioned above the typed name.

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

Enclosure

3 8 7

RIVERDALE®

HORSEPOWER® SELECTIVE HERBICIDE

FOR SELECTIVE BROADLEAF WEED CONTROL  
IN ORNAMENTAL LAWNS AND TURF GRASSES

CONTAINS MCPA, TRICLOPYR AND DICAMBA

CONTROLS: Dandelion, Chickweed, Black medic, Knotweed, Plantain, Oxalis,  
Clover, Cocklebur, Thistle and many other species of  
broadleaf weeds; some of which are listed on this label.

ACTIVE INGREDIENTS:

Dimethylamine Salt of 2-Methyl-4-Chlorophenoxyacetic Acid*	48.99%
Triethylamine Salt of 3,5,6-Trichloro-2-Pyridinyloxyacetic Acid**	5.59%
Dimethylamine Salt of Dicamba (3,6-Dichloro-o-Anisic Acid)***	4.82%
INERT INGREDIENTS:	40.60%
TOTAL	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*2-Methyl-4-Chlorophenoxyacetic Acid	40.0%	3.80 lbs./gal.
**3,5,6-Trichloro-2-Pyridinyloxyacetic Acid	4.0%	0.38 lbs./gal.
***3,6-Dichloro-o-Anisic Acid	4.0%	0.38 lbs./gal.

Riverdale and Horsepower are Registered Trademarks of Riverdale - A Nufarm Company

For Use By Professional Turf Maintenance Personnel,  
Landscaping or Commercial Applicators Only

**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 FIRST AID  
AND ADDITIONAL PRECAUTIONARY STATEMENTS**

EPA REG. NO. 228-313

NET CONTENTS

GALS.

EPA EST. NO. 228-IL-1

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

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

AUG 12 2003

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

228-313

NOTE: Spanish language is optional

(Inside Booklet)

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

Corrosive. This concentrate causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear face shield or goggles when mixing and loading this product. After product has been diluted in accordance with Directions for Use, eye protection is not required. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**FIRST AID STATEMENT**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

- IF IN EYES:** 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 SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- IF ON SKIN OR CLOTHING:** 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.
- NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the 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. 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.

Most cases of ground water contamination involving phenoxy herbicides such as MCPA have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these phenoxy pesticides at such 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.

HORSEPOWER™ 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. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production or for research purposes. \*Excluding Bentgrass Tees.

**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, Dichondra, 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. 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. Do not spray when air temperature exceeds 90°F.

Avoid application to Centipede or St. Augustine grasses unless turf injury can be tolerated. The suitable use of Horsepower on non-recommended turf species may be determined by treating a small area at any rate/acre which does not exceed 3 pints/acre. Prior to treatment of larger areas, 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. The user assumes the responsibility for any plant damage or other liability resulting from the use of this product on species not recommended on this label.

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. 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.

**WEEDS CONTROLLED BY HORSEPOWER™**

Alfalfa, Amaranth, Aster, Beadstraw, Bedstraw, Beggartick, Beggarweed, Bindweed, Bitter sneezeweed, Black medic, Bladder campton, Bracken fern, Broomweed, Buckhorn, Buckwheat, Buffalobur, Burclover, Burcucumber, Burdock, Bursage, Buttercup, Canada thistle, Carpetweed, Catnip, Catsear, Chamise, Chamomile, Chickweed, Chicory, Cinquefoil, Clover, Cocklebur, Coffeeweed, Cornflower, Cornspeedwell, Croton, Daisy, Dandelion, Dock, Dog fennel, Dragonhead mint, Evening primrose, Field pennycress, Fleabane, Florida pusley, Frenchweed, Galinsoga, Geranium, Goatsbeard, Goldenrod, Goosefoot, Gromwell, Ground ivy, Halfshrub sundrop, Hawkweed, Healall, Heartleaf drymary, Hemp sesbania, Hempnettle, Henbit, Horsenettle, Horsetweed, Ironweed, Jerusalem artichoke, Jimsonweed, Knapweed, Knapwood, Knawel, Knotweed, Kochia, Ladysthumb, Lambsquarter, Lespedeza, Little starwort, Mallow, Marc's Tail, Marshelder, Matchweed, Mayweed, Milkweed, Morningglory, Mustard, Nightflowering catchfly, Nightshade, Oxalis (Stricta and corniculata), Parsley-piert, Pennywort, Peppergrass, Pepperweed, Pigweed, Plantain, Poison hemlock, Poison ivy, Poison oak, Pokeweed, Poorjoe, Prickly sida, Prickly lettuce, Puncturevine, Purslane, Ragweed, Red sorrel, Red clover, Redvine, Redstem, Rubberweed, Sheep sorrel, Shepherdspurse, Sicklepod, Smartweed, Snakeweed, Sowthistle, Speedwell, Spiderwort, Spikeweed, Spiny, Spurge, Spurry, Spurweed, Starbur, Stinging nettle, Stitchwort, Stunkweed, Sumpweed, Sunflower, Tansy ragwort, Teasel, Teaweed, Texas blueweed, Thistle, Toadflax, Trumpetcreeper, Velvetleaf, Veronica, Vetch, Waterhemlock, Waterhemp, Whitebrush, Wild violet, Wild radish, Wild onion, Wild aster, Wild carrot, Wild lettuce, Wild garlic, Wild geranium, Wood sorrel, Wormwood, Yankeeweed, Yarrow, Yellow starthistle, Yellow rocket, and many other broadleaf weeds.

**ORNAMENTAL LAWNS AND TURF**

Apply Horsepower Selective Herbicide at the rate of 2 to 3 pints in 20 to 240 gallons of water per acre (0.73 to 1.10 fluid ounces in 0.5 to 5.5 gallons of water per 1,000 square feet) to control weeds growing in turf grasses planted to Bluegrass, Fescue, Rye, Bent (excluding golf course greens and tees), Bahia, Bermuda and Zoysia.

**Herbi™ Controlled Droplet Applicator:** Add 1-1/2 to 2-1/4 pints of Horsepower 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

33,000 square feet (3/4 of an acre). Do not overlap (double coverage) at edge of spray patterns. Reduced rates (use 1/2 of rate shown above) of Horsepower 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 Horsepower at the rate of 2 to 3 pints per acre (0.73 to 1.10 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:** For all grasses (1) Do not overlap spray patterns; (2) Use reduced rates if grass is stressed from heat, drought, etc.; and (3) Follow CDA equipment spray instructions.

#### COMPATIBILITY

Horsepower can be mixed with some liquid fertilizers or liquid iron materials. Because liquid fertilizers and liquid iron differ in pH, free ammonia content, density, salt concentration and percentage of water, a compatibility test (given below) is recommended prior to mixing in the application equipment. All regulations, either State or Federal, relating to the application of liquid fertilizers or liquid iron and this product must be strictly followed. The following compatibility test should always be performed prior to full-scale mixing.

1. Pour 18 ounces of water into a quart jar.
2. Add 1 ounce of either the liquid fertilizer or liquid iron to be used.
3. Add 1 ounce of Horsepower.
4. Close jar and shake well.
5. Watch the mixture for several seconds after shaking and check again after 30 minutes.
6. If the mixture does not show signs of separating, the combination may be used. If the mixture foams excessively, gels, separates or gets very thick, do not combine for field application.
7. Compatibility may be improved by the use of a compatibility agent. Some suggested compatibility agents to try are Kalo Laboratories Complex, Hopkins Chemical's Unite, Farm Chemicals Inc.'s Compat, Harcros Chemicals' T-Mulz 734-2, Rigo Company's Rigo Compatibility Agent, Witco Chemical's Sponto 168D, Amoco Oil's Amoco Spray Mate and Universal Co-op.'s Chem-Link. These agents are all used in the same manner. Follow the previously outlined test procedures and add 1/6 ounce of the compatibility agent between steps (the compatibility agent must be added to the fertilizer or iron before adding the Horsepower).
8. If the mixture does not separate, gel, foam or get very thick, it may be used for field application. Mix only the amount to be sprayed. Do not allow to stand overnight.

**STORAGE AND DISPOSAL**

**STORAGE:** Always store pesticides in a secured warehouse or storage building. 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 store near open containers of fertilizer, seed or other pesticides. 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. 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:** 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.

**WARRANTY**

Nufarm 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. (RV 032103)