

228 - 412

1-9-2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

JAN 08 2008

Mr. Matthew Granahan  
Product Registration  
Nufarm Americas, Inc.,  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

SUBJECT: Application for Pesticide Notification (PRN 98-10)  
Request General Label Changes  
EPA Reg. No. 228-412  
Application Dated December 7, 2007

Dear Mr. Granahan:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 12/07/07 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

*Sheela D. Holby*  
for Linda Arrington

Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



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**Nufarm Americas Inc.**  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527  
Telephone: (630) 455.2000 Facsimile: (630) 455.2001  
www.us.nufarm.com

December 7, 2007

Via Overnight Courier

U. S. Environmental Protection Agency (7504P)  
Document Processing Desk (NOTIF)  
Room S4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

Subject: Viper ® Weed and Feed (18#/5M) Commercial and Residential  
EPA REG. No. 228-412  
Label Notification per PR 98-10

Dear Ms. Hobgood:

Nufarm Americas, Inc would like to add optional language to subject product's label. The proposed language is consistent with PR Notice 98-10, Section II (labeling notifications) and is being added to the Commercial label at the request of a subregistrant in efforts to be compliant with the Florida Urban Turf Rule. Both the Residential and Commercial versions of this label have been alter to update our Warranty, remove 1-800 CLEAN-UP, and update the address format- these changes are consistent with PR Notice 98-10, Section II (labeling notifications).

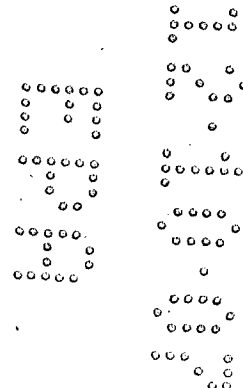
To process this request please find enclosed the following:

- Application for Pesticide Registration EPA form 8570-1
- Revised labeling with areas of change clearly identified (1 copy)
- Revised labeling – clean (1 copy)

If you should have any questions regarding this matter, please feel free to contact me at (630) 455-2048 or [matthewgranahan@us.nufarm.com](mailto:matthewgranahan@us.nufarm.com) or contact George Meindl at (630) 455-2017 or e-mail at [george.meindl@us.nufarm.com](mailto:george.meindl@us.nufarm.com).

Sincerely,

Matt Granahan  
Regulatory Specialist  
Nufarm Americas, Inc.





Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

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

1. Company/Product Number 228-412	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Viper Weed and Feed (18#/5M)	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Nufarm Americas, Inc. 150 Harvester Drive, Suite 200 Burr Ridge, IL 60527 <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: EPA Reg. No. _____  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.)

Label Notification per PR Notice 98-10, Section II. Amended labeling with label claims as highlighted. This notification is consistent with the provisions of PR notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. sec 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

**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 <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt    No. per container		
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"/>	
6. Manner in Which Label is Affixed to Product			<input checked="" 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 George Meindl george.meindl@us.nufarm.com	Title Registration Manager	Telephone No. (Include Area Code) 630.455.2017
<b>Certification</b> 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 Registration Manager	
4. Typed Name George Meindl	5. Date 12/07/07	

Commercial

# RIVERDALE®

# VIPER®

## WEED AND FEED (18#/5M)

THIS PRODUCT IS A PREMIUM GRADE HERBICIDE AND TURF FOOD COMBINATION WHICH CONTROLS A WIDE SPECTRUM OF BROADLEAF WEEDS WHILE PROVIDING BOTH FAST AND LONG FEEDING ACTION.

CONTAINS 2,4-D, MECOPROP-p AND DICAMBA

Weeds contacted by this product gradually die and disappear from the lawn/turf.  
Treats (or covers) 5,000 Square Feet (50' x 100')

GET THE OPTICAL ADVANTAGE®

**ACTIVE INGREDIENTS:**

Isooctyl (2-ethylhexyl) Ester of 2,4-Dichlorophenoxyacetic Acid*	1.196%
2,4-Dichlorophenoxyacetic Acid*	0.162%
(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid**‡	0.319%
Dicamba (3,6-Dichloro-o-Anisic Acid)***	0.080%

<b>OTHER INGREDIENTS:</b>	98.243%
<b>TOTAL:</b>	100.000%

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid (Total)	0.955%
**(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid	0.319%
***3,6-Dichloro-o-Anisic Acid	0.080%

‡CONTAINS THE SINGLE ISOMER FORM OF MECOPROP-p

**GUARANTEED ANALYSIS:**

Total Nitrogen (N)	X%
X% Ammoniacal Nitrogen	
X% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	X%
Soluble Potash(K <sub>2</sub> O)	X%
Primary Plant Foods derived from (List sources)	
Chlorine (Cl) Maximum	X%

The urea nitrogen in this product has been coated to provide X% coated slow release urea nitrogen.  
Fertilizer guaranteed by (Name of Fertilizer registrant)

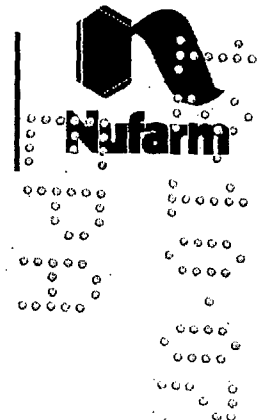
**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
SEE BACK PANEL FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 228-412  
EPA EST. NO. 228-IL-1

MANUFACTURED BY  
NUFARM AMERICAS INC.  
150 HARVESTER DRIVE  
BURR RIDGE, IL 60527

NET WEIGHT    LBS.

000228-00412.20071204.com.Pending



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

**CAUTION**

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long pants, long-sleeved shirt, socks and shoes when applying this product. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until dust has settled.

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE 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**

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 nor pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP-p 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 or 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. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

This product is a stable mixture of four herbicides. It is for use on Ornamental Turf (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways, Aprons, Tees and Roughs) and similar turf areas.

This product may be used on Bahia, common Bermuda, Blue Grass, Centipede, Fescue, Rye, St. Augustine, and Zoysia grass. DO NOT USE on Dichondra and Carpet grass. DO NOT USE this product where desirable clovers are present or allow the product to "wind drift" onto flowers, vegetables, ornamentals, shrubs, trees or other desirable plants.

This product is designed to promote lush green growth in lawns/turf and control many broadleaf weeds such as:

- |                     |                    |                   |                   |                      |
|---------------------|--------------------|-------------------|-------------------|----------------------|
| Alder               | Broomweed          | Common mullein    | Florida pusley    | Ironweed             |
| Annual yellow       | Buckhorn           | Common sowthistle | Frenchweed        | Jewelweed            |
| sweet clover        | Buckhorn plantain  | Corn Chamomile    | Galinsoga         | Jimsonweed           |
| Artichoke           | Bulbous buttercup  | Creeping jenny    | Garlic mustard    | Kochia               |
| Aster               | Bull nettle        | Crimson clover    | Goathead          | Knawel               |
| Austrian fieldcress | Bull thistle       | Croton            | Goatsbeard        | Knotweed             |
| Bedstraw            | Burdock            | Cudweed           | Goldenrod         | Lambsquarter         |
| Beggarick           | Burning nettle     | Curly dock        | Ground ivy        | Lespedeza            |
| Biden               | Bur ragweed        | Curly indigo      | Gumweed           | Locoweed             |
| Bindweed            | Burweed            | Dandelion         | Hairy bittercress | Lupine               |
| Bird vetch          | Buttercup          | Dead nettle       | Hairy fleabane    | Mallow               |
| Bitterweed          | Canada thistle     | Dock              | Hawkweed          | Marshelder           |
| Bitter wintercress  | Carolina geranium  | Dogbane           | Healall           | Matchweed            |
| Black-eyed Susan    | Carpetweed         | Dogfennel         | Heartleaf drymary | Mexicanweed          |
| Black medic         | Catchweed bedstraw | Elderberry        | Hedge bindweed    | Milk vetch           |
| Black mustard       | Catsear            | English daisy     | Hedge mustard     | Milkweed bloodflower |
| Black-seed plantain | Catnip             | Fall dandelion    | Hemp              | Mugwort              |
| Blessed thistle     | Chickweed          | False dandelion   | Henbit            | Morningglory         |
| Blue lettuce        | Chicory            | False flax        | Hoary cress       | Mousear chickweed    |
| Blue vervain        | Cinquefoil         | False sunflower   | Hoary plantain    | Musk thistle         |
| Box elder           | Clover             | Fiddleneck        | Hoary vervain     | Mustard              |
| Bracted plantain    | Cockle             | Field bindweed    | Honeysuckle       | Narrowleaf plantain  |
| Brassbuttons        | Cocklebur          | Field pansy       | Hop clover        | Narrowleaf vetch     |
| Bristly oxtongue    | Coffeebean         | Flea bane (daisy) | Horsenettle       | Nettle               |
| Broadleaf dock      | Coffeeweed         | Flixweed          | Horsetail         |                      |
| Broadleaf plantain  | Common chickweed   | Florida betony    | Indiana mallow    |                      |

(continued.)

Nutgrass	Prostrate spurge	Southern wild rose	Tick trefoil	Wild lettuce
Orange hawkweed	Prostrate vervain	Sowthistle	Toadflax	Wild marigold
Oxalis	Puncture vine	Spanishneedle	Trailing crownvetch	Wild onion
Oxeye daisy	Purslane	Spatterdock	Tumble mustard	Wild parsnip
Parsley-piert	Ragweed	Speedwell	Tumble pigweed	Wild radish
Parsnip	Red clover	Spiny amaranth	Tumbleweed	Wild rape
Pearlwort	Redroot pigweed	Spiny cocklebur	Velvet leaf	Wild strawberry
Pennycress	Red sorrel	Spotted catsear	Venice mallow	Wild sweet potato
Pennywort	Redstem filaree	Spotted knapweed	Veronica	Wild vetch
Peppergrass	Rough cinquefoil	Spotted spurge	Vervain	Willow
Pepperweed	Rough fleabane	Spurge	Vetch	Witchweed
Pigweed	Roundleafed marigold	Spurweed	Virginia buttonweed	Woolly morningglory
Pineywoods bedstraw	Rush	Stinging nettle	Virginia creeper	Woodsorrel
Plains coreopsis	Russian pigweed	Stinkweed	Virginia pepperweed	Woolly croton
Plantain	Russian thistle	Stitchwort	Wavyleaf bullthistle	Woolly plantain
Poison hemlock	St. Johnswort	Strawberry clover	Western clematis	Wormseed
Poison ivy	Scarlet pimpernel	Sumac	Western salsify	Yarrow
Poison oak	Scotch thistle	Sunflower	White clover	Yellow rocket
Pokeweed	Sheep sorrel	Sweet clover	White mustard	Yellowflower pepperweed,
Poorjoe	Shepherdspurse	Tail nettle	Wild mustard	
Povertyweed	Slender plantain	Tail vervain	Wild aster	
Prickly lettuce	Smallflower galinsoga	Tansy mustard	Wild buckwheat	and other broadleaf weeds.
Prickly sida	Smartweed	Tansy ragwort	Wild carrot	
Primrose	Smooth dock	Tanweed	Wild four-o'clock	
Prostrate knotweed	Smooth pigweed	Tarweed	Wild garlic	
Prostrate pigweed	Sneezeweed	Thistle	Wild geranium	

**WHEN TO APPLY:** - Best results are obtained when weeds are growing actively in spring or early fall. Avoid contact with desirable shrubs, plants, vegetables, or flowers; especially when applying with a rotary (spinner) type spreader. Do not reseed for at least 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn/turf until after 3 mowings. For optimum results: (1) Avoid mowing 1 to 2 days before and after application; (2) Apply when grass is moist (after a rain sprinkling or dew); (3) Avoid unnecessary disturbances, including watering of treated areas for 48 hours after application. Watering will wash off weed killing material; and (4) Avoid applying if rainfall is expected within 48 hours following treatment. Possible retreatment in approximately 30 days may be necessary if area is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed recommended rates because damage to turf may occur.

**NOTE:** When applying to Southern Grasses - under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration on Centipede and St. Augustine grasses. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grass.

**HOW TO APPLY:** This 18 pound bag should be used on 5,000 square feet. Apply evenly with a lawn/turf spreader as a one pass application. A two pass application, criss-crossing the area at half the rate each time is equal to one application.

The following settings are approximate for applying contents of this package at a suggested rate of 3.6 pounds per 1,000 square feet. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed. Check your spreader on 250 square feet and adjust to apply at the rate of 0.9 pound per 250 square feet.

**SPREADER SETTINGS  
ONE PASS APPLICATION\***

MAKE	SETTING
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

(The following paragraph is mandatory in Kentucky when the nitrogen analysis does not provide 1 pound of nitrogen/1,000 square feet; otherwise, this information is optional.)

A lawn/turf area typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing \*(No. of lbs.) pounds of nitrogen per 1,000 square feet (optional

P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O levels) and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

\*Based on Inert fertilizer claimed.

<b>Environmental Benefits</b> (Grasscycling Logo)	Besides increasing property values, did you know a well-maintained lawn provides the following benefits to your home and environment:	
	<i>Grass clippings and yard waste are approximately 20% of the volume in our nation's landfills. To do your part to reduce this amount, leave grass clippings on your lawn. Increased mowing height and frequency will produce smaller grass clippings that will decompose more readily so nutrients go back into your lawn.</i>	√ A 50' x 50' lawn produces enough oxygen for a family of 4 every day
		√ Reduces Glare & Reduces Noise
		√ Traps Dust, Smoke Particles & Other Pollutants
		√ Purifies Water & Modifies Temperature
	√ Improves Soil Condition & Controls Erosion	

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Always use original container to store pesticides in a secured warehouse or storage building. Do not stack more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, clean up all spilled material. 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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay away from smoke.

### WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(120407N)

Riverdale, Viper and The Optical Advantage are Registered Trademarks of Nufarm Americas Inc.

The following note will not be part of the actual label copy.

\*NOTE: Guaranteed (fertilizer) Analysis and Spreader Settings will vary among various commercial fertilizer manufacturers. Chlorine declaration is optional except where mandated by State fertilizer regulation.

- Editor's notes:**
1. Subregistrant Warranty Statements previously accepted by U.S. EPA for use on their own registered products are not included on this label.
  2. Subregistrant's trademark name acknowledgments are not included on this label.

**OPTIONAL MARKETING STATEMENTS:**

Maximize Your Lawn's Potential!

Fights Weeds with VIPER® Herbicide!

A fertilizer containing VIPER® Herbicide which controls: Dandelion, Spurge, Plantain, Chickweed and many other broadleaf weeds.

Use when weeds are actively growing.

Controls over 200 Broadleaf Weeds!

**Nitrogen** – Promotes thick, green turf (or) For vigorous blade, leaf and stem growth and dark green color (or) Contains no Nitrogen

**Phosphate** - For root development and growth (or) Contains no Phosphorous

**Potash or Potassium** – Strengthens grass against disease (or) Promotes strong roots and improves turf hardness (or) Contains no Potassium

**OPTIONAL SPREADER INSTRUCTIONS:**

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply product along the length of the lawn, overlapping very slightly and shutting off spreader when turning.

(Illustration) For Rotary Spreaders: Apply in a circular path, starting on the outside and working toward the center, overlapping very slightly.

**OPTIONAL FERTILIZER TEXT:**

Contains LESCO Poly Plus® Sulfur Coated Urea to provide uniform growth with extended nitrogen feeding.

Slowly Available Urea Nitrogen from Polymer Coated sulfur Coated Urea.

Poly Plus® is comprised of Polymer Coated sulfur Coated Urea.

**OPTIONAL LABEL LANGUAGE FOR DIFFERENT BAG SIZES:**

XX pound bag should treat XXXXX square feet.



7/13

Commercial

# RIVERDALE®

# VIPER®

## WEED AND FEED (18#/5M)

THIS PRODUCT IS A PREMIUM GRADE HERBICIDE AND TURF FOOD COMBINATION WHICH CONTROLS A WIDE SPECTRUM OF BROADLEAF WEEDS WHILE PROVIDING BOTH FAST AND LONG FEEDING ACTION.

CONTAINS 2,4-D, MECOPROP-p AND DICAMBA

*Weeds contacted by this product gradually die and disappear from the lawn/turf.  
Treats (or covers) 5,000 Square Feet (50' x 100')*

GET THE OPTICAL ADVANTAGE®

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2,4-Dichlorophenoxyacetic Acid*	0.162%
(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid** ‡	0.319%
Dicamba (3,6-Dichloro-o-Anisic Acid)***	0.080%

OTHER INGREDIENTS:	98.243%
<b>TOTAL:</b>	<b>100.000%</b>

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid (Total)	0.955%
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***3,6-Dichloro-o-Anisic Acid	0.080%

‡CONTAINS THE SINGLE ISOMER FORM OF MECOPROP-p

**GUARANTEED ANALYSIS:**

Total Nitrogen (N)	X%
X% Ammoniacal Nitrogen	
X% Urea Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	X%
Soluble Potash(K <sub>2</sub> O)	X%
Primary Plant Foods derived from (List sources)	
Chlorine (Cl) Maximum	X%

The urea nitrogen in this product has been coated to provide X% coated slow release urea nitrogen.  
Fertilizer guaranteed by (Name of Fertilizer registrant)

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
 SEE BACK PANEL FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 228-412  
EPA EST. NO. 228-IL-1

MANUFACTURED BY  
NUFARM AMERICAS INC.  
150 HARVESTER DRIVE  
BURR RIDGE, IL 60527



NET WEIGHT    LBS.

000228-00412.20071204.com.Pending

10/13

Commercial

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

**CAUTION**

Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long pants, long-sleeved shirt, socks and shoes when applying this product. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until dust has settled.

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
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**

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 nor pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP-p 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 or 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. **READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

This product is a stable mixture of four herbicides. It is for use on Ornamental Turf (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways, Aprons, Tees and Roughs) and similar turf areas.

This product may be used on Bahia, common Bermuda, Blue Grass, Centipede, Fescue, Rye, St. Augustine, and Zoysia grass. **DO NOT USE** on Dichondra and Carpet grass. **DO NOT USE** this product where desirable clovers are present or allow the product to "wind drift" onto flowers, vegetables, ornamentals, shrubs, trees or other desirable plants.

This product is designed to promote lush green growth in lawns/turf and control many broadleaf weeds such as:

- |                     |                    |                   |                   |                      |
|---------------------|--------------------|-------------------|-------------------|----------------------|
| Alder               | Broomweed          | Common mullein    | Florida pusley    | Ironweed             |
| Annual yellow       | Buckhorn           | Common sowthistle | Frenchweed        | Jewelweed            |
| sweet clover        | Buckhorn plantain  | Corn Chamomile    | Galinsoga         | Jimsonweed           |
| Artichoke           | Bulbous buttercup  | Creeping jenny    | Garlic mustard    | Kochia               |
| Aster               | Bull nettle        | Crimson clover    | Goathead          | Knawel               |
| Austrian fieldcress | Bull thistle       | Croton            | Goatsbeard        | Knotweed             |
| Bedstraw            | Burdock            | Cudweed           | Goldenrod         | Lambsquarter         |
| Beggartick          | Burning nettle     | Curly dock        | Ground ivy        | Lespedeza            |
| Biden               | Bur ragweed        | Curly indigo      | Gumweed           | Locoweed             |
| Bindweed            | Burweed            | Dandelion         | Hairy bittercress | Lupine               |
| Bird vetch          | Buttercup          | Dead nettle       | Hairy fleabane    | Mallow               |
| Bitterweed          | Canada thistle     | Dock              | Hawkweed          | Marshelder           |
| Bitter wintercress  | Carolina geranium  | Dogbane           | Healall           | Matchweed            |
| Black-eyed Susan    | Carpetweed         | Dogfennel         | Heartleaf drymary | Mexicanweed          |
| Black medic         | Catchweed bedstraw | Elderberry        | Hedge bindweed    | Milk vetch           |
| Black mustard       | Catsear            | English daisy     | Hedge mustard     | Milkweed bloodflower |
| Black-seed plantain | Catnip             | Fall dandelion    | Hemp              | Mugwort              |
| Blessed thistle     | Chickweed          | False dandelion   | Henbit            | Morningglory         |
| Blue lettuce        | Chicory            | False flax        | Hoary cress       | Mouseear chickweed   |
| Blue vervain        | Cinquefoil         | False sunflower   | Hoary plantain    | Musk thistle         |
| Box elder           | Clover             | Fiddleneck        | Hoary vervain     | Mustard              |
| Bracted plantain    | Cockle             | Field bindweed    | Honeysuckle       | Narrowleaf plantain  |
| Brassbuttons        | Cocklebur          | Field pansy       | Hop clover        | Narrowleaf vetch     |
| Bristly oxtongue    | Coffebean          | Flea bane (daisy) | Horsenettle       | Nettle               |
| Broadleaf dock      | Coffeeweed         | Flixweed          | Horsetail         |                      |
| Broadleaf plantain  | Common chickweed   | Florida betony    | Indiana mallow    | (continued.)         |

Nutgrass	Prostrate spurge	Southern wild rose	Tick trefoil	Wild lettuce
Orange hawkweed	Prostrate vervain	Sowthistle	Toadflax	Wild marigold
Oxalis	Puncture vine	Spanishneedle	Trailing crownvetch	Wild onion
Oxeye daisy	Purslane	Spatterdock	Tumble mustard	Wild parsnip
Parsley-piert	Ragweed	Speedwell	Tumble pigweed	Wild radish
Parsnip	Red clover	Spiny amaranth	Tumbleweed	Wild rape
Pearlwort	Redroot pigweed	Spiny cocklebur	Velvet leaf	Wild strawberry
Pennycress	Red sorrel	Spotted catsear	Venice mallow	Wild sweet potato
Pennywort	Redstem filaree	Spotted knapweed	Veronica	Wild vetch
Peppergrass	Rough cinquefoil	Spotted spurge	Vervain	Willow
Pepperweed	Rough fleabane	Spurge	Vetch	Witchweed
Pigweed	Roundleafed marigold	Spurweed	Virginia buttonweed	Wooly morningglory
Pineywoods bedstraw	Rush	Stinging nettle	Virginia creeper	Woodsorrel
Plains coreopsis	Russian pigweed	Stinkweed	Virginia pepperweed	Wooly croton
Plantain	Russian thistle	Stitchwort	Wavyleaf bullthistle	Wooly plantain
Poison hemlock	St. Johnswort	Strawberry clover	Western clematis	Wormseed
Poison ivy	Scarlet pimpernel	Sumac	Western salsify	Yarrow
Poison oak	Scotch thistle	Sunflower	White clover	Yellow rocket
Pokeweed	Sheep sorrel	Sweet clover	White mustard	Yellowflower
Poorjoe	Shepherdspurse	Tall nettle	Wild mustard	pepperweed,
Povertyweed	Slender plantain	Tall vervain	Wild aster	
Prickly lettuce	Smallflower galinsoga	Tansy mustard	Wild buckwheat	and other broadleaf
Prickly sida	Smartweed	Tansy ragwort	Wild carrot	weeds.
Primrose	Smooth dock	Tanweed	Wild four-o'clock	
Prostrate knotweed	Smooth pigweed	Tarweed	Wild garlic	
Prostrate pigweed	Sneezeweed	Thistle	Wild geranium	

**WHEN TO APPLY:** Best results are obtained when weeds are growing actively in spring or early fall. Avoid contact with desirable shrubs, plants, vegetables, or flowers; especially when applying with a rotary (spinner) type spreader. Do not reseed for at least 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn/turf until after 3 mowings. For optimum results: (1) Avoid mowing 1 to 2 days before and after application; (2) Apply when grass is moist (after a rain sprinkling or dew); (3) Avoid unnecessary disturbances, including watering of treated areas for 48 hours after application. Watering will wash off weed killing material; and (4) Avoid applying if rainfall is expected within 48 hours following treatment. Possible retreatment in approximately 30 days may be necessary if area is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed recommended rates because damage to turf may occur.

**NOTE:** When applying to Southern Grasses - under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration on Centipede and St. Augustine grasses. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grass.

**HOW TO APPLY:** This 18 pound bag should be used on 5,000 square feet. Apply evenly with a lawn/turf spreader as a one pass application. A two pass application, criss-crossing the area at half the rate each time is equal to one application.

The following settings are approximate for applying contents of this package at a suggested rate of 3.6 pounds per 1,000 square feet. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed. Check your spreader on 250 square feet and adjust to apply at the rate of 0.9 pound per 250 square feet.

**SPREADER SETTINGS  
ONE PASS APPLICATION\***

MAKE	SETTING
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

(The following paragraph is mandatory in Kentucky when the nitrogen analysis does not provide 1 pound of nitrogen/1,000 square feet; otherwise, this information is optional.)

A lawn/turf area typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing \*(No. of lbs.) pounds of nitrogen per 1,000 square feet (optional

P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O levels) and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

\*Based on Inert fertilizer claimed.

<b>Environmental Benefits</b> (Grasscycling Logo)	Besides increasing property values, did you know a well-maintained lawn provides the following benefits to your home and environment:	
	<i>Grass clippings and yard waste are approximately 20% of the volume in our nation's landfills. To do your part to reduce this amount, leave grass clippings on your lawn. Increased mowing height and frequency will produce smaller grass clippings that will decompose more readily so nutrients go back into your lawn.</i>	√ A 50' x 50' lawn produces enough oxygen for a family of 4 every day
		√ Reduces Glare & Reduces Noise
		√ Traps Dust, Smoke Particles & Other Pollutants
		√ Purifies Water & Modifies Temperature
√ Improves Soil Condition & Controls Erosion		

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Always use original container to store pesticides in a secured warehouse or storage building. Do not stack more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, clean up all spilled material. 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:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay away from smoke.

### WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED; OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

### LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(120407N)

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The following note will not be part of the actual label copy.

\*NOTE: Guaranteed (fertilizer) Analysis and Spreader Settings will vary among various commercial fertilizer manufacturers. Chlorine declaration is optional except where mandated by State fertilizer regulation.

- Editor's notes:**
1. Subregistrant Warranty Statements previously accepted by U.S. EPA for use on their own registered products are not included on this label.
  2. Subregistrant's trademark name acknowledgments are not included on this label.

**OPTIONAL MARKETING STATEMENTS:**

Maximize Your Lawn's Potential!

Fights Weeds with VIPER® Herbicide!

A fertilizer containing VIPER® Herbicide which controls: Dandelion, Spurge, Plantain, Chickweed and many other broadleaf weeds.

Use when weeds are actively growing.

Controls over 200 Broadleaf Weeds!

**Nitrogen** – Promotes thick, green turf (or) For vigorous blade, leaf and stem growth and dark green color (or) Contains no Nitrogen

**Phosphate** - For root development and growth (or) Contains no Phosphorous

**Potash or Potassium** – Strengthens grass against disease (or) Promotes strong roots and improves turf hardness (or) Contains no Potassium

**OPTIONAL SPREADER INSTRUCTIONS:**

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply product along the length of the lawn, overlapping very slightly and shutting off spreader when turning.

(Illustration) For Rotary Spreaders: Apply in a circular path, starting on the outside and working toward the center, overlapping very slightly.

**OPTIONAL FERTILIZER TEXT:**

Contains LESCO Poly Plus® Sulfur Coated Urea to provide uniform growth with extended nitrogen feeding.

Slowly Available Urea Nitrogen from Polymer Coated sulfur Coated Urea.

Poly Plus® is comprised of Polymer Coated sulfur Coated Urea.

**OPTIONAL LABEL LANGUAGE FOR DIFFERENT BAG SIZES:**

XX pound bag should treat XXXXX square feet.