

228-509

09/20/2010

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

SEP 20 2010

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

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

Dear Mr, Granahan:

Subject: ProDeuce® RTU  
EPA Registration No. 228-509  
Your Application and Letter Dated June 24, 2010,  
Request to Amend the Label to Add and Optional  
Statement Ro Allow Claim for Color of Product  
as and Indicator for Defining Area Sprayed; Your  
Letter Dated August 11, 2010, Submission of Revised  
Labeling

The subject request to amend the labeling of ProDeuce® has  
been review and found acceptable under the Federal Insecticide,  
Fungicide and Rodenticide Act (FIFRA), as amended, provide that  
you:

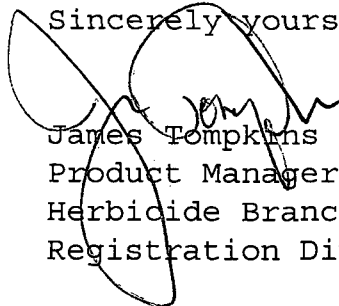
1. Delete the claim that this product is "non-selective"  
in the front panel and on page 3 "Post-Emergent  
**Non-Selective**" weed list; and restate the contents  
under the asterisks to give the active ingredient  
contents in the subject pesticide product, not "**of the  
a.i." its self.**" As an example "\*\*Equivalent to 90 grams  
prodiamine per liter or 0.75 pound prodiamne per U.S.  
gallon." Also revise the "Net Contents" to read: 64 Fl.  
Ozs.
2. On page 2, under "Use Restrictions" change the word young  
to "ornamental". And, add a statement as to when to  
replant for higher dosages; i.e., between 3 and 5.75 fl. oz.  
in one gallon of water and treat 1,000 sq. ft.

- 3. On page 3, correct the name "Marestail" to read: "Mare's Tail".
- 4. On page 2, under "Use Restrictions" replace the word "young" to read "ornamental"
- 5. Submit one copy of the final printed labeling prior to shipping this pesticide product under the revised labeling.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of this product under the revised labeling constitutes acceptance of these conditions. A stamped copy of the accepted labeling is enclosed for your records.

If you have any question, please call Eugene Wilson at 703-305-6103.

Sincerely yours,



James Tompkins  
 Product Manager (25)  
 Herbicide Branch  
 Registration Division (7505P)

Enclosure

# ProDeuce®

PRE-EMERGENT AND POST-EMERGENT NON-SELECTIVE WEED CONTROL  
FOR MANY BROADLEAF WEEDS AND GRASSES

**ACTIVE INGREDIENTS:**

Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt* . . . . .	40.15%
Prodiamine** . . . . .	7.51%

<b>OTHER INGREDIENTS:</b> . . . . .	<u>52.34%</u>
<b>TOTAL:</b> . . . . .	100.00%

\*Contains 480 grams per liter or 4.0 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 2.97 pounds per U.S. gallon of the acid, glyphosate.  
 \*\*Equivalent to 90 grams per liter or 0.75 pounds per U.S. gallon of Prodiamine (CAS # 29091-21-1).

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION / PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you do not understand the label, find someone to explain it to you in detail.)

**SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
 For Medical Emergencies Only, Call (877) 325-1840

**ACCEPTED**  
**With COMMENTS**  
**In EPA Letter Dated:**

*September 20, 2010*  
 Under the Federal Insecticide, Fungicide  
 and Rodenticide Act, As amended, for the  
 pesticide Registered under EPA Reg. No:  
228-509

EPA REG. NO. 228-509  
 EPA EST. NO. 62171-MS-3

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



NET CONTENTS      64 OZS.

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

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling.

<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>	
<p>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.</p>	

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment wash water or rinsate.

**PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT, OR SPRAY SOLUTIONS OF THIS PRODUCT, IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

**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.

Stay off treated areas until sprays have dried. Precautions should be taken to prevent tracking product after application onto desirable grasses.

**SHAKE WELL BEFORE USING.**

**PRODUCT INFORMATION**

**WHERE TO USE**

Apply this product to both established weeds and weed-prone areas where weeds have not yet emerged:

- on cracks and crevices in driveways, sidewalks, walkways, and patios
- along fences, foundations, curbs, retaining walls, and edges of lawns
- around the base or in mulched beds of well-established (at least 6 months old) plants, shrubs or tree
- on gravel areas

**HOW THIS PRODUCT WORKS**

Important: To prevent new weeds and grasses from growing you must spray the entire area you want to control, not just the emerged weeds.

This product works two ways:

1. One ingredient enters the plants through foliage and moves systemically to the roots, killing many weeds by stopping the production of a substance found in plants. Weeds begin to yellow and wilt in a matter of days with complete kill of many weeds in 1 to 2 weeks.
2. The other ingredient provides a herbicidal barrier in the soil preventing growth and development of newly germinated weeds.

**USE RESTRICTIONS**

- **DO NOT** spray desirable plants.
- **DO NOT** use in lawns or for lawn renovations as this product prevents desirable grass establishment.
- **DO NOT** use for vegetable garden preparations or in and around fruits and vegetables.
- **DO NOT** spray around young plants or in an area that will be planted or seeded for 6 months after application when applying at the 3 oz. per 1,000 sq. ft. use rate.

### APPLICATION

#### When to Apply

Spray when air is calm to prevent drift to desirable plants. For best results, apply during warm, sunny weather (above 60°F).

### WEEDS CONTROLLED

#### Pre-Emergent:

When used as directed, this product will prevent the following weeds from emerging:

Barnyardgrass	Henbit <sup>1</sup>	Purslane, common
Bluegrass, annual ( <i>Poa annual</i> ) <sup>1</sup>	Itchgrass	Pusley, Florida
Carpetweed	Johnsongrass (from seed)	Rescuegrass <sup>2</sup>
Chickweed, common <sup>2</sup>	Junglerice	Shepherdspurge <sup>1</sup>
Chickweed, mouse-ear (from seed)	Knotweed <sup>1</sup>	Signalgrass, broadleaf
Crabgrass (large, smooth)	Kochia	Speedwell, Persian
Crowfootgrass	Lambsquarters, common	Sprangletop
Cupgrass, woolly	Lovegrass	Spurge, prostrate
Foxtails, annual	Panicum, (Texas, fall, browntop)	Witchgrass
Goosegrass	Pigweed	Woodsorrel, yellow (from seed)

<sup>1</sup>To control this weed in non-turf areas, apply this product in late summer, fall, or winter before weeds germinate.

<sup>2</sup>Suppression only.

#### Post-Emergent Non-Selective:

#### ANNUAL WEEDS

Barley	Goatgrass, jointed	Rice, red
Barnyardgrass	Goosegrass	Rocket, London
Bluegrass, annual	Groundsel, common	Rye
Bluegrass, bulbous	Henbit	Ryegrass, Italian
Brome, downy	Horseweed/Marestail	Shattercane
Buttercup	Lambsquarters, common	Shepherdspurge
Cheat	Mustard, blue	Sicklepod
Chickweed, common	Mustard, tansy	Signalgrass, broadleaf
Chickweed, mouse-ear (from seed)	Mustard, tumble	Spanishneedles
Cocklebur	Mustard, wild	Sprangletop
Corn	Oats, wild	Spurge, annual
Crabgrass	Panicum, fall	Spurry, umbrellae
Dwarf dandelion	Panicum, Texas	Stinkgrass
False flax, smallweed	Pennycress, field	Teaweed
Filaree	Pigweed, redroot	Wheat
Foxtail	Pigweed, smooth	Witchgrass
Foxtail, Carolina	Primrose, cutleaf evening	
Geranium, Carolina	Pusley, Florida	

#### PERENNIAL WEEDS

Alfalfa	Dock, curly	Orchardgrass
Alligatorweed*	Dogbane, hemp	Pampasgrass*
Anise (fennel)	Fescue, tall	Paragrass
Artichoke, Jerusalem	Fescues	Phragmites*
Bahiagrass	Guinea grass	Poison hemlock
Bentgrass	Horsenettle	Quackgrass
Bermudagrass	Horseradish	Redvine*
Bermudagrass, water (knotgrass)	Ice plant	Reed, giant
Bindweed, field	Johnsongrass	Ryegrass, perennial
Bluegrass, Kentucky	Johnsongrass, seedling	Smartweed, swamp
Bluegrass, Texas	Kikuyugrass	Spurge, leafy*
Brackenfern	Knapweed	Starthistle, yellow
Bromegrass, smooth	Lantana	Sweet potato, wild*
Bursage, woollyleaf	Lespedeza	Thistle, artichoke
Canarygrass, reed	Milkweed	Thistle, Canada
Cattail	Morningglory	Timothy
Clover, red	Muhly, wirestem	Torpedograss*
Clover, white	Mullein, common	Trumpetcreeper*
Cogongrass	Napiagrass	Vaseygrass
Dallisgrass	Nightshade, silverleaf	Velvetgrass
Dandelion	Nutsedge, purple, yellow	Wheatgrass, Western

\* Partial Control

**TANK SPRAYER** (plastic, aluminum, fiberglass, plastic-lined steel or stainless steel)

- Add 3 to 5.75 fluid ounces to 1 gallon of water and treat 1,000 sq. ft.
- For longer pre-emergent control and post-emergent control of larger weeds use the higher rate.

**Do not apply with a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.**

**HOW TO APPLY**

Spray existing weeds AND the entire surrounding weed-prone area you want to keep free of weeds. Spray the area with sufficient volume to assure complete coverage. When spraying around the base of well-established (at least 6 months old) ornamental plants, shrubs, or trees, shield desirable plants from drift with a sheet of cardboard or plastic. Use caution to prevent application to green stems and leaves, damage can occur.

**WHEN TO REPLANT**

All ornamental bedding plants, trees, shrubs, sod, and seed (flowers and grasses) may be planted 6 months after application when applying at the 3 oz. per 1,000 sq. ft. use rate or 12 months when applying at the 5.75 oz. per 1,000 sq. ft. use rate.

**HOW TO CLEAN SPRAYER**

To clean sprayer after use, rinse sprayer and all sprayer parts with soap and water 3 times. Spray rinse water on bare soil or gravel. After cleaning, sprayer may be used for other products.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** STORE ABOVE 10°F (-12°C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 68°F (20°C) for several days to redissolve and shake or roll to mix well before using.

**PESTICIDE DISPOSAL AND CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.

**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.

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**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.**

(RV071910)

ProDeuce is a registered trademark of Nufarm Americas Inc.  
All other trademarks are the property of their respective owners.

**OPTIONAL MARKETING HYPE:**

Season Long Control\*

\* Season Long is 3 months

Dual Action

Dual Action Formula

Up to 4 months control

3 to 6 months control

**OPTIONAL STATEMENT:**

The preemergent herbicide prodiamine in this product is yellow in color, which allows the user to see the area that has been sprayed. If sprayed on cement curbs, sidewalks, and driveways, it may temporarily stain if not washed off immediately after application. Caution should be used not to wash the product off target weeds or weed control may be adversely affected. Treated areas should be dry before entering to avoid staining onto non-treated surfaces.

**LABEL HISTORY**

FILE NAME	REVISION MARK	COMMENTS
000228-00509.20100719.PRN98-10	RV071910	Added Optional Statement. Updated verbiage.