

228-514

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 Grass & Weed Killer  
EPA Registration No. 228-514  
Your Application and Letter Dated March 12, 2010,  
Submission of Final Printed Labeling with Revisions  
Of Label; and Your Letter Dated August 11, 2010,  
Submission of Revised Labeling

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

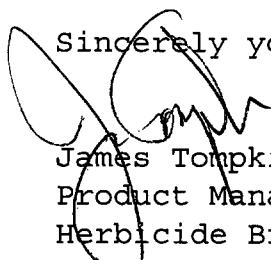
1. Revise the description of front panel claim to read:  
"One application kills or prevents listed weeds for up to 3 months on soil-surfaced: patios, driveways, sidewalks and mulched areas. And, revise the information under the asterisk to give the active ingredient contents in the subject pesticide product. For example, "Contains 5.0 grams prodiamine per litre", not of prodiamine.
2. On page 2, revise 1<sup>st</sup> sentence under "When to Apply" by deleting "and grasses"; and under "Use Restrictions" make "renovations and Preparations singular; and replace the word "young" with "ornamental" and replace "when applying" with "if applied". You must also tell when to plant or seed when applied at lower dosages; i.e., between 1220 and 2,400 sq feet dosages. Delete the word "for" in the statement.

3. On page 3, correct the name "Marestail" to read: "Mare's Tail".
4. On page 4, under "How to Apply/Use" 3. to read: "Do not spray **ornamental** plants or grasses, as damage **will** occur"
5. As dosages ranges are based on area treated, on page 4, give directions as to when to apply each range, e.g. one gallon to 1,220 to 2,400 square feet. Tell when to use the high and low dosage, and dosages within the range if appropriate.
6. On page 4, under "When to Replant" replace the word "applying" with the word "applied"
7. 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

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# ProDeuce® RTU GRASS & WEED KILLER

KILLS AND PREVENTS LISTED WEEDS AND GRASSES FOR UP TO 3 MONTHS  
ONE APPLICATION KILLS AND PREVENTS WEEDS ALL SEASON\*  
\*season long is 3 months  
FOR USE ON PATIOS, DRIVEWAYS, SIDEWALKS AND MULCHED AREAS

**ACTIVE INGREDIENTS:**

Glyphosate, N-(phosphonomethyl) glycine in the form of its isopropylamine salt\* ..... 2.00%  
Prodiamine ..... 0.50%

**OTHER INGREDIENTS:** ..... 97.50%  
**TOTAL:** ..... 100.00%

\*Contains 20.1 grams per litre or 0.17 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 14.8 grams per litre or 0.12 pounds per U.S. gallon of the acid, glyphosate.  
Contains 5.0 grams per litre 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

9/20/10

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
228-514

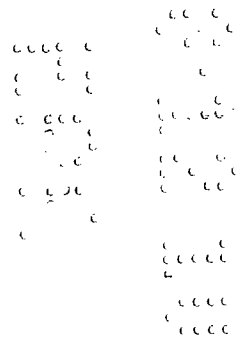
EPA REG. NO. 228-514  
EPA EST. NO. 228-IL-001

Manufactured For  
NUFARM AMERICAS INC.  
150 Harvester Drive  
Burr Ridge, IL 60527



NET CONTENTS: 2.5 Gal. (9.46L)

000228-00514.20100719.PRN98-10



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

Causes moderate eye irritation. Avoid contact with eyes or clothing. 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>	
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**

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.

**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 on to desirable grasses.

**SHAKE WELL BEFORE USING.**

**PRODUCT INFORMATION**

**Where to Use**

FOR OUTDOOR USE ONLY. Apply only where no vegetation is desired, such as driveways, landscaped areas, around well-established (at least 6 months old) plants, trees and shrubs, along fences, sidewalks, walkways, patios, curbs, gutters and cracks in sidewalks. DO NOT USE IN VEGETABLE GARDENS. DO NOT APPLY THROUGH ANY TYPE OF IRRIGATION SYSTEM. AERIAL APPLICATION IS PROHIBITED.

**When to Apply**

Apply to actively growing weeds and grasses. Visible effects to most weeds should occur within 3 to 5 days with complete kill of most weeds in 2 to 4 weeks. If rainfall occurs within 6 hours, repeat treatment may be required. To avoid drift to desirable plants, apply only when air is calm. If leaves of desirable plants are accidentally sprayed, immediately wash off plants with water. Spray when air is calm to prevent drift to desirable plants. For best results, apply during warm, sunny weather (above 60° F).

**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 12 months after application when applying at the 1 gallon per 1,220 sq. ft. (1 quart per 305 sq. ft.) (1 pint per 155 sq. ft.) use rate.

## 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	Shepherdspurse <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	Shepherdspurse
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, umbrella
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	Trumpet creeper*
Cogongrass	Napierrgrass	Vaseygrass
Dallisgrass	Nightshade, silverleaf	Velvetgrass
Dandelion	Nutsedge; purple, yellow	Wheatgrass, Western

\* Partial Control

**How to Apply/Use**

1. Turn sprayer nozzle to open. Adjust sprayer nozzle as desired.
2. Spray to thoroughly cover unwanted weeds and grasses or spray to thoroughly cover areas where you want to prevent weed and grass growth.
3. Do not spray plants or grasses, as damage can occur.
4. When treating around desirable plants, shield plants from drift with a sheet of cardboard or plastic. If desirable plants are accidentally sprayed, rinse off immediately with water.

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

- Apply 1 gallon of this product to treat 1,220 sq. ft. to 2,400 sq. ft. (1 quart of this product to treat 305 sq. ft. to 600 sq. ft.) (1 pint of this product to treat 155 sq. ft. to 300 sq. ft.)
- Do not apply with a galvanized or unlined steel (except stainless steel) sprayer, or through any irrigation system.

**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.

**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 1 gallon per 1,220 sq. ft. (1 quart per 305 sq. ft.) (1 pint per 155 sq. ft.) use rate or 12 months when applying at the 1 gallon per 2,400 sq. ft. (1 quart per 600 sq. ft.) (1 pint per 300 sq. ft.) use rate.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep from freezing. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area.

**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.

**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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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 the 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.

**OPTIONAL LANGUAGE:**

<b>Product Facts – 1 Gallon Treats Up To 2,400 Sq. Ft. ([1 Qt.] [32 Fl. Oz.] Treats Up To [600 Sq. Ft.])</b>	
Kills Weeds	Listed weeds & grasses
Prevents Weeds	For up to 3 months
Where to Use	<ul style="list-style-type: none"> <li>• Driveways, sidewalks, patios, curbs and gutters</li> <li>• Along fences</li> <li>• In landscaped areas (except vegetables gardens)</li> <li>• For outdoor use only</li> </ul>

**OPTIONAL MARKETING LANGUAGE:**

Season Long Control\*

\*Season Long is 3 months

Dual Action

Dual Action Formula

Kills weeds and grasses down to the root

Kills to the root

Ready-To-Use Formula

Starts working in hours

Systemic [control] action

Attacks the root

Fast Acting

Kills tough weeds

Kills weeds and grasses around trees and shrubs

Spot treat driveways, sidewalks and patios

Kills most weeds and grasses

Use where no vegetation desired

Quick and easy to use

Single application kills most weeds

**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.

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**LABEL HISTORY**

FILE NAME	REVISION MARK	COMMENTS
000228-00514.20100308.EPA.Amendment	RV030110A	EPA Accepted March 01, 2010.
000228-00514.20100719.PRN98-10	RV071910	Added Optional Statement and Rate Clarification.