

# ProDeuce®

## Pre-Emergent And Post-Emergent 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%

**OTHER INGREDIENTS:** . . . . . 52.34%

**TOTAL:** . . . . . 100.00%

\*Contains 480 grams per liter or 4.0 pounds per U.S. gallon. Equivalent to 356 grams per liter or 2.97 pounds per U.S. gallon.

\*\*Equivalent to 90 grams per liter or 0.75 pounds per U.S. gallon (CAS # 29091-21-1).

### **KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN**

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

EPA Reg. No. 228-509

Manufactured for  
Nufarm Americas Inc.  
150 Harvester Drive  
Burr Ridge, IL 60527



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

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

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, 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 trees
- 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 ornamental plants or in an area that will be planted or seeded for 6 months after application when applying at the 3 fl. oz. per 1,000 sq. ft. use rate.
- **DO NOT** spray around ornamental plants or in an area that will be planted or seeded for 12 months after application when applying at the 5.75 fl. 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	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)	Witch grass
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:**

Barley  
 Barnyardgrass  
 Bluegrass, annual  
 Bluegrass, bulbous  
 Brome, downy  
 Buttercup  
 Cheat  
 Chickweed, common  
 Chickweed, mouseear (from seed)  
 Cocklebur  
 Corn  
 Crabgrass  
 Dwarf dandelion  
 False flax, smallweed  
 Filaree  
 Foxtail  
 Foxtail, Carolina  
 Geranium, Carolina

Alfalfa  
 Alligatorweed\*  
 Anise (fennel)  
 Artichoke, Jerusalem  
 Bahiagrass  
 Bentgrass  
 Bermudagrass  
 Bermudagrass, water (knotgrass)  
 Bindweed, field  
 Bluegrass, Kentucky  
 Bluegrass, Texas  
 Brackenfern  
 Bromegrass, smooth  
 Bursage, woollyleaf  
 Canarygrass, reed  
 Cattail  
 Clover, red  
 Clover, white  
 Cogongrass  
 Dallisgrass  
 Dandelion

**ANNUAL WEEDS**

Goatgrass, jointed  
 Goosegrass  
 Groundsel, common  
 Henbit  
 Horseweed / Mare's Tail  
 Lambsquarters, common  
 Mustard, blue  
 Mustard, tansy  
 Mustard, tumble  
 Mustard, wild  
 Oats, wild  
 Panicum, fall  
 Panicum, Texas  
 Pennycress, field  
 Pigweed, redroot  
 Pigweed, smooth  
 Primrose, cutleaf evening  
 Pusley, Florida

**PERENNIAL WEEDS**

Dock, curly  
 Dogbane, hemp  
 Fescue, tall  
 Fescues  
 Guinea grass  
 Horsenettle  
 Horseradish  
 Ice plant  
 Johnsongrass  
 Johnsongrass, seedling  
 Kikuyugrass  
 Knapweed  
 Lantana  
 Lespedeza  
 Milkweed  
 Morningglory  
 Muhly, wirestem  
 Mullein, common  
 Napiergrass  
 Nightshade, silverleaf  
 Nutsedge; purple, yellow

Rice, red  
 Rocket, London  
 Rye  
 Ryegrass, Italian  
 Shattercane  
 Shepherdspurse  
 Sicklepod  
 Signalgrass, broadleaf  
 Spanishneedles  
 Sprangletop  
 Spurge, annual  
 Spurry, umbrella  
 Stinkgrass  
 Teaweed  
 Wheat  
 Witch grass

Orchardgrass  
 Pampasgrass\*  
 Paragrass  
 Phragmites\*  
 Poison hemlock  
 Quackgrass  
 Redvine\*  
 Reed, giant  
 Ryegrass, perennial  
 Smartweed, swamp  
 Spurge, leafy\*  
 Starthistle, yellow  
 Sweet potato, wild\*  
 Thistle, artichoke  
 Thistle, Canada  
 Timothy  
 Torpedograss\*  
 Trumpetcreeper\*  
 Vaseygrass  
 Velvetgrass  
 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 fl. oz. per 1,000 sq. ft. use rate or 12 months when applying at the 5.75 fl. 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:** Pesticide wastes are toxic. **DO NOT** contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Nonrefillable Containers 5 Gallons or Less:**

**CONTAINER DISPOSAL: Nonrefillable container.** Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke.

#### **Nonrefillable containers larger than 5 Gallons:**

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.** Offer for recycling if available. If recycling or reconditioning is not available, 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. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

#### **Refillable containers**

**CONTAINER HANDLING [DISPOSAL]: Refillable container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## **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 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.**

ProDeuce is a registered trademark of Nufarm Americas, Inc.

All other trademarks are the property of their respective owners.

(RV042611)