



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 26, 2024

Bill Washburn  
Registration Manager  
Helena Agri-Enterprises, LLC  
225 Schilling Boulevard, Suite 300  
Collierville, TN 38017

Subject: Label Amendment - Registration Review Mitigation for Oxadiazon  
Product Name: Pro-Mate Ronstar 1.0% Plus .22% Barricade with Fertilizer  
EPA Registration Number: 5905-571  
Application Date: June 2, 2022  
Decision Number: 585112

Dear Bill Washburn:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Oxadiazon Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable. As part of the registration review, EPA identified the need for this product to be classified as Restricted Use. The labeling approved today incorporates the necessary changes for classification as Restricted Use, therefore the classification is effective on the date of this letter.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. Due to the classification of this product as Restricted Use, in accordance with 40 CFR 152.167, after 120 days, any of this product you sell or distribute must:

- 1) Bear an approved amended label containing the terms of the Restricted Use classification;
- 2) Bear a sticker containing the product name, EPA registration number, and any terms of restricted use; **or**
- 3) Be accompanied by supplemental labeling bearing the product name, EPA registration numbers, and any terms of restricted use.

After 270 days, any of this product you sell or distribute must bear the approved amended labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Theodore Varns by phone at 202-566-2241, or via email at [varns.theodore@epa.gov](mailto:varns.theodore@epa.gov).

Sincerely,



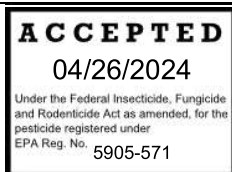
Kevin Costello, Branch Chief  
Risk Management and Implementation Branch 2  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

# Restricted Use Pesticide

Due To Potential Human Health Risks of Concern (Cancer) From Chronic Dietary or Dermal Exposure When Used in Accordance with Label Directions.

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



PRODIAMINE	GROUP	<b>3</b>	HERBICIDE
OXADIAZON	GROUP	<b>14</b>	HERBICIDE

## PRO-MATE® RONSTAR 1.0% PLUS .22% BARRICADE WITH FERTILIZER

50 lbs. Bag Treats Up To 10,869 Sq. Ft.

**FOR SALE TO AND USE BY PROFESSIONAL APPLICATORS ONLY.**

**FOR USE ON: PARKS, GOLF COURSES** (Fairways, Roughs, only. Do not use on Golf Course Putting Greens and Tees), **SOD FARMS, ATHLETIC FIELDS, AND OTHER RECREATIONAL AND ORNAMENTAL TURFGRASS AREAS.** Also for use around Ornamental Shrubs, Trees, and Ground Covers, as listed on this label.

**NOT FOR USE ON HOME LAWNS. NOT FOR SALE TO OR USE BY HOMEOWNERS.**

A PRE-EMERGENT WEED CONTROL PRODUCT PLUS A QUALITY FERTILIZER FOR USE ON VARIETIES OF PERENNIAL BLUEGRASS, BERMUDAGRASS, BUFFALOGRASS, PERENNIAL RYEGRASS, ST. AUGUSTINE GRASS, SEASHORE PASPALUM, TALL FESCUE, AND ZOYIAGRASS.

CONTROLS: CRABGRASS, ANNUAL BLUEGRASS, GOOSEGRASS, FLORIDA PUSLEY, OXALIS, STINGING NETTLE, CARPETGRASS, PIGWEED & OTHER WEEDS LISTED.

**ACTIVE INGREDIENT:**

Oxadiazon\*: {2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl) delta 2-1,3,4-oxadiazolin-5-one}.....1.00%  
 Prodiamine\*: 2,4-Dinitro-N3,N3-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine ..... 0.22%

**INERT INGREDIENTS:**..... 98.78%  
**TOTAL:**.....100.00%

\*CAS (19666-30-9)  
 \*CAS (29091-21-2)

### KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

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.)

#### FIRST AID

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious or convulsing person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

#### HOT LINE NUMBER

Have this product container with you when calling a poison control center or doctor or when going for treatment. In case of emergency call 1-800-424-9300

**AD 011922**

**EPA REG. NO.:** 5905-571

**EPA Est. No.:** First letters of batch code indicate producing establishment:

5905-NC-018 = RNC; 5905-FL-013 = FP;

5905-NM-003 = MNM; 5905-NE-009= LN

**NET WEIGHT:** 50 LBS

**MANUFACTURED FOR  
HELENA AGRI-ENTERPRISES, LLC  
225 SCHILLING BOULEVARD, SUITE 300  
COLLIERVILLE TENNESSEE 38017**

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

**WARNING:** Causes substantial but temporary eye injury. Wear protective eyewear (goggles, face shield, or safety glasses). Causes skin irritation. Do not get in eyes, on skin or clothing. Maybe harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing dust, contact with skin, eyes, or clothing. Remove contaminated clothing and wash clothing before reuse. Wash thoroughly with soap and water after handling. Do not allow domestic animals to graze treated areas. Avoid contamination of food and feedstuffs.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Applicators and other handlers must wear coveralls, waterproof gloves, chemical resistant footwear plus socks, protective eyewear, headgear for overhead exposure, chemical resistant apron when cleaning equipment. Follow manufacture's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Applicators should:

- Wash hands before eating drinking, chewing gum, using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

For terrestrial uses: 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 washwater or rinsate.

Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This pesticide is toxic to oysters and shrimp.

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water.

This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of oxadiazon from runoff water and sediment.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize drift.

**DIRECTIONS FOR USE  
RESTRICTED USE PESTICIDE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system. ***Not for use on Home Lawns***

**NON-AGRICULTURAL USES REQUIREMENTS**

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170.) The WPS applies when this product is used to produce agricultural plants only on farms, forests, nurseries, sod farms or greenhouses.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on Sod farms, nurseries, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions and pertaining to the statements on this label about personal protective equipment (PPE) notification to workers and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is coveralls, waterproof gloves and footwear, plus socks, protective eyewear, and chemical resistant headgear for overhead exposure.

### STORAGE AND DISPOSAL

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

**STORAGE:** Store product in its original bag, in a cool, dry, locked place out of reach of children. In case of spill, sweep up, and use according to directions or dispose of as follows.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### WEED RESISTANCE MANAGEMENT

For resistance management, please note that **Pro-Mate Ronstar 1% Plus Barricade .22% with Fertilizer** contains both a Group 3 / Prodiamine and a Group 14 / Oxadiazon herbicide. Any weed population may contain plants naturally resistant to Group 3 and/or Group 14 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of **Pro-Mate Ronstar 1% Plus Barricade .22% with Fertilizer** or other Group 3 and Group 14 Herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage ( or other mechanical control methods), cultural ( e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

- For further information or to report suspected resistance, contact Helena Agri-Enterprises at 901-761-0050 or at [www.helenaagri.com](http://www.helenaagri.com)

#### Restrictions for all use sites

- The minimum retreatment interval (RTI) between applications is 60 days.
- Total applications of oxadiazon of all physical forms must not exceed 6.0 lbs. a.i./A/year if this product is used on the same site with liquid formulations.

#### General Information for Usage on Turfgrass

**PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** may be used at full rate or as split application in established Perennial Bluegrass, Bentgrass (see restrictions), Bermuda grass, Buffalo grass, Perennial Ryegrass, St Augustine grass, Seashore Paspalum, Tall Fescue and Zoysiagrass turf, at apartment/condominium complexes, corporate and public parks, golf courses, sod farms, athletic fields, playgrounds, cemeteries, woody ornamental shrubs, vines, trees as well on other ornamental recreations turfgrass areas. **Not for use on home lawns.** The turf should be free of leaves and thatch and in condition to allow granules to reach the soil surface. Do not apply to turf when it is wet. Do not overlap spreader applications, especially on St. Augustine grass since discoloration “streaking” may temporarily occur from the “doubled” rate. See section on label entitled **PRECAUTIONS IN USING ON TURFGRASS** for the maximum rate allowed on **St. Augustine and Bentgrass.** **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** used at 6.88 lbs per 1,000 sq. ft (300 lbs per acre) provides Ronstar 3 lb. a.i. plus .66 lb a.i. Barricade per acre. After application, user must thoroughly irrigate the site as soon as possible on the same day of application. **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** is a pre-emergence herbicide and must be applied prior to weed seed germination. It will not control growing weeds.

**For Spring and Split Application On Golf Courses:** 300 to 400 lbs per acre application of **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** may be applied as split applications. Weed control and better turf management can be programmed by splitting the a.i. per acre rate of active ingredients into “two” separate applications. For example to accomplish this in a given region of the country using the 300 lbs rate, first apply 150 lbs **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER per acre (3.44 lbs per 1,000 sq ft.)** for the first application, 1 to two weeks prior to weed seed germination or in late December or early January; then follow with the second “1/2” rate in 60 days or in March. If you are using the 400 lb rate, then first apply 200 lbs ( **4.6lb per 1,000 sq. ft**) of **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER per acre** 1 to two weeks prior to weed seed germination or in late December or early January; then follow with the second “1/2” rate in 60 days or in March. **NOTE: The 3.44 or 4.6 lbs 1,000 sq. ft. rates should not be split if applied to new turf areas where weed pressure is expected to be heavy.**

#### PRECAUTIONS AND RESTRICTIONS IN USING ON TURFGRASS:

**Do not use on Red Fescue, Dichondra, or Centipede grass** because damage will occur. **Do not use on Putting Greens or “Tees”** due to varying cultural practices used.

**For St. Augustinegrass:** Do not exceed the rate of 3 lbs Ronstar a.i per acre which is 300 lbs of **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** per acre or 6.88 lbs per 1,000 sq. ft.. (50 lbs / 7,267sq ft). This product may cause discoloration of St. Augustine, but this discoloration is temporary and normally outgrown within 2 to 3 weeks... Avoid contact with flowers and shrubs except as recommended elsewhere for ornamental plants on this label. Seeding into treated areas should be delayed until 4 months after treatment.

**For Bentgrass Turf:** **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** may cause discoloration of Bentgrass, but this discoloration is temporary and normally outgrown within 2 to 3 weeks. Avoid contact with flowers and shrubs except as recommended elsewhere for ornamental plants on this label. Do not apply to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment.

#### **Restrictions for use in turfgrass:**

DO NOT exceed the rate of 3 lbs. of Ronstar active ingredient (a.i),per acre which is 300 lbs **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** per acre or 6.88 lbs per 1,000 sq. ft. (50 lbs / 7,267 sq ft). DO NOT apply to Bentgrass turf mowed less than 3/8<sup>th</sup> inch.

**For Newly Seeded Lawns** - do not apply this product until after the second or third cutting. For best lawn care, plant new grass seed in fall of the year. Spring preemergent weed control can then be applied. If reseeding treated areas after application: Delay new seeding until 4 months after treatment.

A maximum single application rate of 3.0 lbs. a.i./A, and a maximum annual application rate of 6.0 lbs. a.i./A.

For applications on non-agricultural turf (e.g., golf courses, parks, athletic fields) that follow a liquid application, **PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER** must be applied 60 days or later after the liquid application. After applying this product, no liquid applications of oxadiazon are allowed within the same calendar year on the same area of turf.

For applications to non-agricultural turf (e.g., golf courses, parks, athletic fields), this product may not be applied prior to any liquid applications of oxadiazon within the same calendar year on the same area of turf.

On golf course turf only: In areas of heavy weed infestation only, the maximum single application rate is 4.0 pounds of active ingredient per acre, and the maximum annual application rate is 8.0 pounds of active ingredient per acre. No liquid applications may be applied on areas of turf treated at this maximum application rate in the same year.

On golf course turf only: total applications of oxadiazon of all physical forms are limited to 30% of the total managed turf area of a golf course per year. Applications may be made to any turf surface type, including fairways, tees, greens, roughs, non-playable turf surfaces, or other managed turf areas. This 30% limit may be applied to the same or different turf areas from year to year.

On golf course turf and sod farms: a minimum 10-foot-wide untreated vegetative buffer must be maintained between the treated area and any surface water features.

### HOW TO APPLY

For best weed control, rake the area free of leaves and thatch and mow if necessary so that granules will reach the soil surface. Measure the area to be treated and uniformly apply the required amount using a fertilizer spreader (see Spreader Settings chart). Do not apply to turf when it is wet. Do not over-lap spreader applications on St. Augustinegrass, as discoloration “streaking” may temporarily occur from “double rate.” After application, user must thoroughly irrigate the site as soon as possible on the same day of application.

PRE-EMERGENCE WEED CONTROL			
Weed Controlled	Pounds of product per acre	Pounds of product per 1,000 sq. ft.	Application Instructions
Crabgrass ( <i>Digitaria</i> spp) Goosegrass ( <i>Eleusine indica</i> ) Field Sandbur ( <i>Cynchus insertus</i> ) Annual Sedge ( <i>Cyperus compressus</i> )	200 to 300 lbs per acre*	4.6 to 6.8 lbs per 1,000 sq. ft	Apply in late winter or early spring prior to weed germination. See Map. In areas 4 & 5 application made after April or May may not be fully effective
Annual Bluegrass ( <i>Poa annua</i> )	200 to 300 lbs per acre*	4.6 to 6.8 lbs per 1,000 sq. ft.	Apply in late summer to early fall prior to germination.
Virginia Buttonweed ( <i>Diodia</i> ) Pigweed ( <i>Amaranthus</i> spp) Florida Pusley ( <i>Richardia scabra</i> ) Oxalis ( <i>Oxalis</i> spp) Stinging Nettle ( <i>Urtica dioica</i> ) Carpetgrass ( <i>Axonopus offinis</i> )	300 per acre	6.8 lbs per 1,000 sq. ft	Apply in early spring prior to weed seed germination

**\*NOTE: Apply higher rates where high weed infestation is expected. Apply lower rates where lower weed infestation is expected.**



FALL APPLICATION FOR SPRING WEED CONTROL IN COOL SEASON TURF			
Weed Controlled	Pounds of product per acre	Pounds of product per 1,000 sq. ft.	Application Instructions
Crabgrass, Goosegrass and Other annual weeds as listed	200 to 300 lbs per acre*	4.6 to 6.8 lbs per 1,000 sq. ft	For us in Bluegrass, Bentgrass, perennial Ryegrass and Tall Fescue. Make application in the fall after turf has become dormant. For late fall applications, seeding into treated areas should be delayed until 4 months after greenup.

**\*NOTE: Apply higher rates where high weed infestation is expected. Apply lower rates where lower weed infestation is expected.**

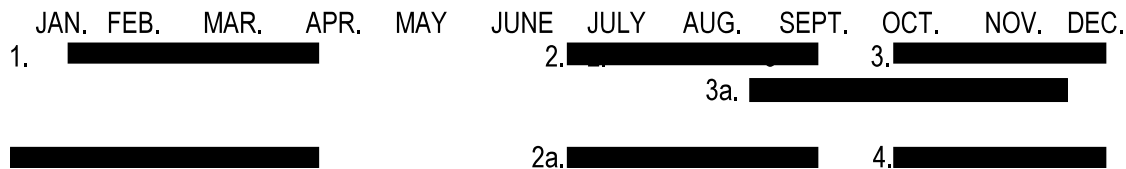
ANNUAL BLUEGRASS CONTROL IN BERMUDAGRASS FAIRWAYS (OVERSEEDED WITH PERENNIAL RYEGRASS ONLY)			
Weed Controlled	Pounds of product per acre	Pounds of product per 1,000 sq. ft.	Application Instructions
Annual Bluegrass (Poa annua spp.)	200 lbs per acre	4.6 lbs per 1,000 sq. ft	<p>Apply in late summer to early fall prior to <i>Poa annua</i> spp. Seed germination. Any <i>Poa annua</i> spp. Established when this product is applied will not be controlled. Product should not be applied less than Four (4) months to over seeding. Do not use where <i>Poa trivialis</i> is present in the overseed mixture.</p> <p>Apply the full 2 lb a. i. rate of Oxadiazon and 0.44lb a.i. of Prodiamine in one application.</p> <p><b>NOTE:</b> In many areas annual bluegrass exists as at least two (2) biotypes or subspecies of <i>Poa annua</i>. The true annual biotype, "<i>Poa annua</i> spp <i>annua</i>:" which germinates from seed every year is controlled while the biotype "<i>Poa annua</i> spp <i>raptans</i>" which behaves like a perennial and survives though summer, as an established plant , cannot be controlled. Consult the extension service or University weed specialist in your area for more information concerning your locale.</p>

ANNUAL WEED CONTROL DURING ESTABLISHMENT FROM "SPRIGS" OF BERMUDAGRASS, ZOYIAGRASS, AND SEASHORE PASPALUM			
Weed Controlled	Pounds of product per acre	Pounds of product per 1,000 sq. ft.	Application Instructions
Crabgrass, Goosegrass, Annual Sedge and other Annual weeds	200 lbs to 300 per acre*	4.6 lbs to 6.88 lbs per 1,000 sq. ft	<p>Refer to Map of U.s. on this label. For Bermudagrass make application immediately prior to, or, immediately after sprigging. For Seashore Paspalum and Zoysia make application 10 to 14 days after sprigging. Application made close to time of sprigging may cause unacceptable injury. Disturbance of the soil surface after application may disrupt the herbicide barrier and reduce effectiveness. For best results, irrigate the sprigged areas by sprinkler irrigation with up to ¼ inch of water after the application.</p>

**\*NOTE: Apply higher rates where high weed infestation is expected. Apply lower rates where lower weed infestation is expected.**



**WHEN TO APPLY**  
**Appropriate Time To Apply For Pre-Emergent Herbicide**



1. For CRABGRASS and other Grasses and Broadleaf Weeds germinating in the spring in Northern Cool Season turf. (Zones: 3,4 and 5)
2. For GOOSEGRASS and other Late Germinating Annual Grasses and Broadleaf Weeds, such as PROSTRATE SPURGE.  
2a. GOOSEGRASS in Southern Turf. (Zones: 1 and 2)
3. For POA ANNUA in Northern Turf.  
3a. For POA ANNUA in Southern Turf. (Zones 1 and 2)
4. For Fall-Winter-Spring control of ANNUAL WEEDS in Southern Turf. (Zones 1 and 2)

**Woody Ornamental Shrubs, Vines and Trees:**

PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER has been found to be effective for weed control in nurseries and plantings of those woody ornamental shrubs, vines and trees listed on this label. For best weed control in established plants, application of PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER needs to be made prior to weed germination. Product can be applied to both newly transplanted and established ornamentals. Delay application to newly transplanted plants until soil has settled around the plant. PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER can be made to both actively growing and dormant ornamentals. NOTE: Do not apply in Greenhouses. Do Not apply to wet foliage or under conditions in which the granules will collect on leaves. After application, user must thoroughly irrigate the site as soon as possible on the same day of application.

PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER should be applied at the rate of 4.6 lbs per 1,000 sq. ft. (200 lbs per acre) before susceptible weed seed germination with a suitable spreader, which will deliver an accurate even particle distribution. Do not apply product granules to wet foliage as this can result in a phototoxic response from the plant. Application need to be made to weed free surfaces.

The maximum single application rate is 3.0 lbs a.i./A, and the maximum annual application rate is 6.0 lbs a.i./A.

Container and Field Grown Ornamentals:

<u>Scientific Name:</u>	<u>Common Name:</u>
<i>Acacia spp.</i>	Acacia
<i>Acer palamatum</i>	Japanese Maple
<i>Barberis gladwynesis</i>	Barberry
<i>Betula papayfrifera</i>	Birch, Paper
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebush
<i>Camellia japonica</i>	Camellia, Common, Japanese
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Cornus florida</i>	Flowering Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster spp.</i>	Cotoneaster
<i>Cupressus spp.</i>	Cypress
* <i>Euonymus fortunei</i>	Wintercreeper
<i>Forsythia intermedia</i>	Border Forsythia
<i>Gardenia jasminoides</i>	Gardina, Cape-Jasmine
* <i>Ilex spp.</i>	Holly
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Ligustrum amurense</i>	Amur Privet
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Magnolia spp.</i>	Magnolia species
<i>Nerium spp.</i>	Oleander
<i>Pachysandra terminalis</i>	Pachysandra
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Picea abies</i>	Norway Spruce
<i>Pieris japonica</i>	Lily-of-the-Valley shrub
<i>Pinus spp.</i>	Pine
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Japanese Pittosporum
<i>Pyrunus laurocerasus</i>	English Laurel
<i>Pyracantha coccinea</i>	Firehorn, Scarlet
<i>Quercus spp.</i>	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron spp. (including azaleas)</i>	Formosa
<i>Santolina virens</i>	
<i>Taxus cuspidata</i>	Japanese Yew
<i>T. media</i>	Yew
<i>Thuja occidentalis</i>	American Arborvitae
<i>Viburnum japonica</i>	Japanese Viburnum
<i>Vinca major</i>	vinca
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Xylosma congestum</i>	Xylosma

\*Certain cultivars of these species may be more sensitive to this herbicide. Growers should evaluate usage of PRO-MATE® RONSTAR 1.0% PLUS BARRICADE .22% WITH FERTILIZER on a small scale for determination of phytotoxicity before applying on large scale basis.

**Susceptible Weeds are listed as follows:**

Annual Bluegrass	*Jungle Ricegrass
Annual Sedge	Lambsquarter
*Barnyardgrass	*Liverwort
Bittercress	Oxalis
Carpetgrass	*Panama Paspalum
Carpetweed	Pennsylvania Smartweed

Common Groundsel	Redroot Pigweed
Common Purslane	Sensitive plant
Crabgrass	Shepardspurse
*Evening Primrose	Sow thistle
Fall Panicum	Speedwell-veronica
Field Sandbur	Spotted Catsear
Fireweed	Spurge; Garden, Petty
Florida Pusley	*Prostrate
Foxtail; Green, Bristly	Stinging Nettle
*Gallinsoga	*Swinecress
Golden Ragwort	Virginia Buttonweed
*Goosegrass	Yellow Woodsorrel

\*For the weeds with 1 asterisk above, use 6.88 lbs. per 1,000 sq. ft. (equal to 300) lbs. of this product per acre.

**Note:** For newly seeded lawns do not apply this product until after the second cutting. For best turf management, plant new grass seed in the fall of the year. Spring pre-emergence weed control can then be applied.

### SPREADER SETTINGS for Rates Per 1,000 sq. ft.

**SPREADER SETTINGS FOR POUNDS OF ACTIVE INGREDIENT PER ACRE:** The following spreader settings are for new equipment. Used, or heavily worn equipment may require adjustments. For proper setting calibration refer to the spreader manufacturer's Maintenance Manual. Do not apply this product until equipment is properly calibrated to accurately apply the desired pounds of product per acre, as recommended on this label.

<b>SPREADER SETTINGS: Apply at the listed pounds of active ingredient per 1,000 square feet</b>			
<b>Adjust spreader settings prior to application of product. Read and follow all use directions before applying any product.</b>			
<b>Spreader Type</b>	<b>For 2 lbs. ai/acre</b>	<b>For 3 lbs. ai/acre</b>	<b>For 4 lbs. ai/acre</b>
Earthway Rotary	10	11	12
Ezee-Flow	--	C1	C1
Lesco	D	E	G
Lesco	14	15	16
Scotts SR2000	G	H	J
Earthway Rotary	12	14	15
Ezee-Flow	C1	C2	C2½
Lesco	D	H	I
Lesco	10	15	16
Scotts SR2000	I	J	K
Pro-Scape®/Prizelawn Bigfoot BF-1/SS	J	L	N
Pennmulch®/Prizelawn HVO	J	L	N
Cyclone	4	4½	5
Earthway Rotary	14	15	16
Ezee-Flow	C2	C2½	C3
<b>SPREADER SETTINGS: Apply at the listed pounds of active ingredient per 1,000 square feet</b>			
<b>Adjust spreader settings prior to application of product. Read and follow all use directions before applying any product.</b>			
<b>Spreader Type</b>	<b>For 2 lbs. ai/acre</b>	<b>For 3 lbs. ai/acre</b>	<b>For 4 lbs. ai/acre</b>
Gandy	24	26	28
Jet-Spred II	4	4½	5
Jet-Spred III	4½	5	5½
Lely HR, 1250, 1500, 2010	4 II	5 II	6 II
Lely W	4 II	5 II	6 II
Lesco (Letters)	G	I	J
Lesco (Numbers)	15	17	21
Ortho Rotary	3	4½	5½
Prizelawn CBR III	J	L	N
Prizelawn CBR II	4	4½	5½
Prizelawn LF-1	2½	3½	4
Prizelawn MPR I	2½	3½	4
Republic Rotary	3	4½	5½
Scotts RX7	E	G	I

Scotts Accupro 2000, SR-2000	H	K	M
Scotts R8A/SR-1	K	L	M
Scotts AP	K	L	M
Scotts SR2000	K	L	M
Spyker	4	4½	4¾
Vicon	22	24	26

**CONDITIONS OF SALE - LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

**Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.**

The directions on this label are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Helena Agri-Enterprises, LLC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Helena Agri-Enterprises, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Helena Agri-Enterprises, LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Helena Chemical Company disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Helena Agri-Enterprises, LLC's election, the replacement of product.

© Copyright Helena Holding Company, 2023.

**PRO-MATE®** is a registered trademark of Helena Holding Company.  
**RONSTAR®** is a registered trademark of Bayer CropScience..  
**BARRICADE®** is a registered trademark of Syngenta.

<b>X-X-X</b>	
<b>GUARANTEED FERTILIZER ANALYSIS</b>	
TOTAL NITROGEN (N)* .....	Variable %
Nitrate Nitrogen.....	Variable%
Ammoniacal Nitrogen .....	Variable%
Water Soluble Nitrogen and/or Urea Nitrogen.....	Variable%
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> ).....	Variable %
SOLUBLE POTASH (K <sub>2</sub> O).....	Variable %
Derived from: Ammonium Sulfate, Ureaform, Muriate of Potash, Manganese as Mn.05%, Iron as Fe 1.0%, and Chlorine<15%	
Slowly Available Nitrogen from polycoated sulfur coated urea.	