

0-0-7

## GUARANTEED ANALYSIS

SOLUBLE POTASH (K <sub>2</sub> O)	7.00%
Derived from: Muriate of Potash	
CHLORINE (Cl), maximum	6.00%
F224	

## PRO-MATE® BARRICADE® 0.22% PLUS FERTILIZER

## ACTIVE INGREDIENT:

Prodiamine<sup>1</sup>.....0.22%

OTHER INGREDIENTS.....99.78%

TOTAL.....100.00%

CAS No. 29091-21-2 For preemergence control of grass and broadleaf weeds in: established turf grasses (excluding golf course putting greens) and lawns

EPA Reg. No. 5905-543

NET CONTENTS: 50 Lbs. (22.68 kg)

EPA Est. No.: 5905-NC-018

AD 090210

MANUFACTURED FOR: HELENA CHEMICAL COMPANY, 225 SCHILLING BOULEVARD, SUITE 300, COLLIERVILLE, TENNESSEE 38017

KEEP OUT OF REACH OF CHILDREN  
CAUTION

## PRECAUTIONARY STATEMENTS- HAZARDS TO HUMANS AND DOMESTIC ANIMALS-

**CAUTION-** CAUSES MODERATE EYE INJURY (IRRITATION). HARMFUL IF INHALED OR ABSORBED THROUGH THE SKIN. AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. AVOID BREATHING DUST. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT WHILE HANDLING THE MATERIAL MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS.

**FIRST AID - IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice. **IF INHALED:** Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration preferably mouth-to-mouth if possible. Call a poison control center or doctor immediately for further treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency call ChemTrec at 800-424-9300.

**ENVIRONMENTAL HAZARDS:** This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. 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 waters. **If material is spilled:** Contain and sweep up material of spill for disposal or use per label instructions. Wash cleanup equipment to prevent contamination elsewhere. Excess quantities above normal application rates could result in damage to plants subject to spill. Water-in remainder, disc under, cover with layer of soil, or leave exposed to sunlight, as deemed appropriate to the situation.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** Store in original container away from other fertilizer, feed, or food stuffs and separated from other pesticides. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** 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 or outdoor drain.

**DIRECTIONS FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Not for use on turf being grown or for sale or other commercial use as sod, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in parks, golf courses or lawns and grounds. This product is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in established turf grasses (excluding golf course putting greens) and lawns. This product controls susceptible weeds by inhibiting weed seed germination and root development. Most effective weed control will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days following application. **FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL**

## MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

**Application Directions:** This product must be applied prior to crabgrass seed germination and prior to the germination of seed of the other weeds listed on this label. Apply uniformly with suitable, calibrated application equipment. **ESTABLISHED TURF:** This product is a preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the **Maximum Annual Rates** section of this label. Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation prior to weed seed germination and not later than 14 days following application. See the map below for approximate crabgrass seed germination dates.

## Crabgrass Seed Germination Dates

## Approximate Date



After May 30  
After May 10  
After April 20  
After March 20  
January 1 to March 20

**Use Precautions:** The following precautions apply to the use of this product in turf grasses and lawns: Do not graze or feed livestock forage cut from areas treated with this product. Do not use on food producing plants. Do not apply this product through any type of irrigation system. Do not apply aerially. Do not apply to golf course putting greens. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil. Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year. Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices such as diking may result in reduced weed control. Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species. **RATES OF APPLICATION:** This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds. Do not exceed the Maximum Annual Rate per calendar year (See Table 1). Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied. **MAXIMUM ANNUAL RATES FOR EACH TURF SPECIES** This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

TABLE 1. - MAXIMUM ANNUAL RATES FOR EACH TURF SPECIES<sup>1</sup>

Turf Species	Lbs. Product/A	Lbs./1000 ft <sup>2</sup>
Bermudagrass <sup>2</sup> , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type) Zoysia	682	15.66
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	455	10.44
Creeping Red Fescue	340	7.80
Creeping Bentgrass	296	6.79

<sup>1</sup>These are the maximum rates per calendar year by turf species. <sup>2</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 237 lbs./A. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass, and Rescuegrass due to reduced product rates used in sprigging situations. Do not apply more than 682 lbs./A (1.5 lb. A/A) of this product per calendar year. Use higher rates of this product to achieve longer periods of weed control for each turf type, but do not exceed the maximum application rates specified in **Table 1 - Maximum Annual Rates for Each Turf Species. WEEDS CONTROLLED-** When used in accordance with this label, this product will provide control of the following weeds:

Barnyardgrass	Kochia
Bluegrass, Annual ( <i>Poa annua</i> )	Lambsquarter, Common
Carpentweed	Lovegrass
Chickweed, Common	Panicum (Texas, Fall, Brown)
Chickweed, Mouseear (from seed)	Pigweed
Crabgrass (Large, Smooth)	Purslane, Common
Crowfootgrass	Pusley, Florida
Cupgrass, Woolly	Rescuegrass <sup>3</sup>
Foxtails, Annual	Shepherd's Purse <sup>2</sup>
Goosegrass <sup>1</sup>	Signalgrass, Broadleaf
Henbit	Speedwell, Persian
Itchgrass	Sprangletop
Johnsongrass (from seed)	Spurge, Prostrate
Junglerice	Witchgrass
Knotweed	Woodsorrel, Yellow (from seed)

<sup>1</sup>In many areas a single application of 346-680 lbs./A of this product will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 346-455 lbs./A followed after 60-90 days by a second application at doses that would not exceed those given in **Table 1 - Maximum Annual Rates for Each Turf Species** for each turf species. Do not exceed the maximum rate for turf grass species listed in **Table 1 - Maximum Annual Rates for Each Turf Species** above. <sup>2</sup>Applications for this weed should be made in late summer, fall, or winter prior to germination. <sup>3</sup>Suppression only. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for turf species being treated. All applications must be made prior to germination of the weed seeds. **WHEN TO APPLY AFTER OVERSEEDING TURF:** Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil. **WHEN TO OVERSEED AFTER APPLICATION:** This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding result.

TABLE 2. - MONTHS AFTER APPLICATION BEFORE OVERSEEDING

Rate (lbs./A)	North	Transition	South
227	4	4	4
298	5	4	4
340	6	5	5
364	--	6	6
455	--	7	7
518	--	--	9
591	--	--	10
682	--	--	12

**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 should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by 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 Chemical Company'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. To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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Outlet: 32162

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