

5-5-25

GUARANTEED ANALYSIS

TOTAL NITROGEN(N).....	5.00%
5.00% AMMONIACAL NITROGEN	
AVAILABLE PHOSPHATE(P ₂ O ₅).....	5.00%
SOLUBLE POTASH (K ₂ O).....	25.00%
SULFUR (S).....	3.50%
3.50% COMBINED SULFUR (S)	

Derived From: Ammonium Sulfate, Diammonium Phosphate and Muriate of Potash
 CHLORINE (Cl), maximum.....20.00%
 Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapco.org/metals.htm>

The product is being used in accordance with a soil test that was conducted by a laboratory identified under § 8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application.

Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands on the driveway, sidewalk, or street back onto your lawn.

F224

PRO-MATE® BARRICADE® 0.375% PLUS FERTILIZER

For selective preemergence control of grass and broadleaf weeds in established turf grasses (excluding golf course putting greens) and lawns

ACTIVE INGREDIENT:

Proflamifene ¹	0.375%
OTHER INGREDIENTS:.....	99.625%
TOTAL:.....	100.000%

¹ [CAS No. 29091-21-2]
 EPA Reg. No. 5905-535 NET WEIGHT: ___ 50 Lbs. (22.68 kg) ___ BULK

EPA Est. No.: 5905-NC-018 AD 091511

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

**KEEP OUT OF THE REACH OF CHILDREN
 CAUTION**

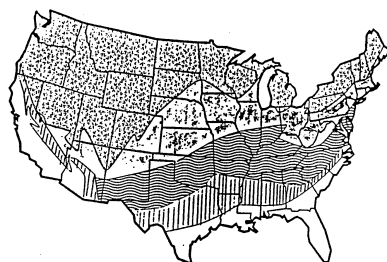
PRECAUTIONARY STATEMENTS - Hazards to Humans and Domestic Animals- CAUTION- Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long sleeved shirt, long pants, shoes, socks and chemical resistant gloves made of any waterproof material.

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 for treatment advice. **IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. **HOT LINE NUMBER:** For additional information, in case of an emergency, call 800-424-9300. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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 HANDLING:** Nonrefillable container. Do not reuse or refill this container. 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.

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 plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) 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 selective 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. **Application Directions:** Apply uniformly with suitable, calibrated application equipment. **Established Turf:** This product is a selective 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 within 14 days following application. See the map below for approximate crabgrass seed germination dates.



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

Use Precautions and 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 seeding 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 disking 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. Do not exceed a maximum of 400 lbs. product per acre per calendar year. **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. 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:** This product is may be used 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 SPECIES¹

Turf Species	Lbs. Product/A	Lbs./1000 ft ²
Bermudagrass ² , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type) Zoysia	400	9.18
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	267	6.12
Creeping Red Fescue	200	4.59
Creeping Bentgrass	175	4.02

¹These are the maximum rates per calendar year by species limitations.²May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 139 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 400 lbs./A of this product per calendar year. Use higher rates of this product to achieve higher levels of weed control for each turf type, but do not exceed the maximum application rates specified in the **Maximum Annual Rates Table**.

Weeds Controlled: When used in accordance with this label, this product will provide control of the following weeds: Barnyardgrass, Kochia, Bluegrass, Annual (Poa annua) Lambsquarter, Common Carpetweed, Lovegrass, Chickweed, Common Panicum (Texas, Fall, Browntop) Chickweed, Mouseear (from Pigweed seed), Crabgrass (Large, Smooth), Purslane, Common Crowfootgrass Pusley, Florida, Cupgrass, Wolly, Rescuegrass³ Foxtails, Annual Shepherd's Purse² Goosegrass¹ Signalgrass, Broadleaf Henbit Speedwell, Persian Itchgrass, Sprangletop Johnsongrass (from seed), Spurge, Prostrate, Junglerice, Witchgrass Knotweed Woodsorrel, Yellow (from seed) ¹ In many areas a single application of 175-400 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 175-267 lbs./A followed after 60-90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates Table** above.² Applications for this weed should be made in late summer, fall, or winter prior to germination.³ Suppression only. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates specified for each turf species. Under heavy weed pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 100-195 lbs./A followed after 60-90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates Table**. 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 seeding 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 results.

Rate (lbs./A)	North	Transition	South
133	4	4	4
175	5	4	4
200	6	5	5
213	--	6	6
267	--	7	7
305	--	--	9
347	--	--	10
400	--	--	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 must 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. To the extent consistent with applicable law, 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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