



PRODIAMINE	GROUP	3	HERBICIDE
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# THE ANDERSONS TURF PRODUCTS FERTILIZER WITH **0.426% BARRICADE<sup>®</sup>** **HERBICIDE 18-0-4**

- **For preemergence control of grass and broadleaf weeds in established turfgrasses (excluding golf course putting greens) and lawns.**

#### GUARANTEED ANALYSIS:

Total Nitrogen (N).....18.00%  
18.00% Urea Nitrogen\*

Soluble Potash (K<sub>2</sub>O).....4.00%

Derived from urea and potassium chloride.

Chlorine (Cl) Max.....3.40%

\*4.50% nitrogen stabilized with N-[n-butyl] thiophosphoric triamide and dicyandiamide.

#### FOO2091

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

**NITROGEN NOTICE:** For those states with nitrogen application restrictions, including but not limited to, MD, NH, NJ, PA and VA, do not apply more than 0.9 lbs of nitrogen per 1,000 sq.ft

#### FLORIDA APPLICATIONS:

We recommend that you follow the Florida Green Industries BMP's at: <http://www.flrules.org/Gateway/reference.asp?No=Ref-04706>

We recommend that you follow the Florida Golf Course BMP's at: <http://www.flrules.org/Gateway/reference.asp?No=Ref-04702>

#### ACTIVE INGREDIENTS:

Prodiamine<sup>†</sup>.....0.426%

**OTHER INGREDIENTS:**.....99.574%

Total.....100.00%

<sup>†</sup>(CAS No. 29091-21-2)

EPA Reg. No. 9198-140

EPA Est. No. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A

(Underlined letter is first letter used in run code on end of bag.)

#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans and Domestic Animals

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 may cause allergic reactions in some individuals.

#### FIRST AID

**If in eyes** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contacts, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**If swallowed** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 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 mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.

#### ENVIRONMENTAL HAZARDS

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water or 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 washwaters.

**NON-TARGET ORGANISM ADVISORY STATEMENT:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organism, 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

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 for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

**Net Wt. 50 Lbs. (22.68 kg)**



# THE ANDERSONS TURF PRODUCTS FERTILIZER WITH 0.426% BARRICADE® HERBICIDE 18-0-4

## WEED RESISTANCE MANAGEMENT

For resistance management, this product is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

- To delay herbicide resistance take one or more of the following steps:
  - Rotate the use of this product or other Group 3 herbicides within growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
  - Use tank mixtures with herbicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
  - 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 before and 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 The Andersons, Inc. at 1-800-757-8951.

## GENERAL INFORMATION

This product is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in turfgrasses. This product controls susceptible weeds by inhibiting weed seeds 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 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application.

## APPLICATION DIRECTIONS

Apply uniformly through suitable, calibrated application equipment.

## ESTABLISHED TURF

This product is a preemergence herbicide that, when properly applied as directed, 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.

### CRABGRASS GERMINATION DATES



**Approx. Date:**  
1 - After May 30  
2 - After May 10  
3 - After April 20  
4 - After March 20  
5 - Jan. 1 to March 20

## Use Restrictions and Precautions

The following precautions apply to the use of this product in turf grasses and lawns:

- Application of this product may thin emerged annual bluegrass and newly overseeded grasses.
- Do not apply to over seeded 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 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 graze or feed livestock forage cut from areas treated with this product.

- Do not apply this product through any type of irrigation system unless otherwise instructed by this label.
- Do not apply aerially.
- Do not apply to golf course putting greens.

## 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 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:

### Maximum Annual Rates Table

Turf Species	Maximum Application Rate of this product per Calendar Year by Turf Grass Species <sup>1</sup>		
	lbs. Ai/A	lbs. product /A	lbs. product, 1,000 sq. ft.
Bermudagrass <sup>2</sup> , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turftype), Zoysia	1.5	352	8.1
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	1.0	235	5.4
Creeping Red Fescue	0.75	174	4.0
Creeping Bentgrass	0.65	155	3.6

<sup>1</sup>These are the maximum rates per calendar year by species limitations.

<sup>2</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 122 lb./acre or 2.8 lb./1,000 sq. ft. 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 352 lbs. per acre (8.1 lbs./1,000 sq. ft.) of this product per calendar year. Use higher rates of this product to achieve higher levels of fertility and 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 at the recommended rates this product will control: Barnyardgrass; Bluegrass, Annual (*Poa annua*); Carpetweed; Chickweed, Common; Chickweed, Mouseear (from seed); Crabgrass (Large, Smooth); Crowfootgrass; Cupgrass; Woolly; Foxtails, Annual; Goosegrass; Henbit; Itchgrass; Johnsongrass (from seed); Junglerice; Knotweed; Kochia; Lambsquarter, Common; Lovegrass; Oxalis; Panicum (Texas, Fall, Browntop); Pigweed; Purslane, Common; Pusley, Florida; Rescuegrass; Shepherd's Purse<sup>2</sup>; Signalgrass, Broadleaf; Speedwell, Persian; Sprangletop; Spurge, Prostrate; Witchgrass; Woodsorrel, Yellow (from seed).

<sup>1</sup>In many areas a single application of 3.6 to 8.1 lbs./1,000 sq. ft. (155 to 352 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 3.6 to 5.4 lbs./1,000 sq. ft. (155 to 235 lbs./A) followed after 60 to 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.

<sup>2</sup>Applications for this weed should be made in late summer, fall, or winter prior to germination. Do not exceed the maximum application rates specified in the Maximum Annual Rates Table.

<sup>3</sup>Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum application rates specified 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 seedling secondary roots are in the second inch of soil, not thatch plus soil.

## When to Overseed After Application - All States\*

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.

The Andersons Turf Products Fertilizer with 0.426% Barricade Herbicide 18-0-4 Rate		Interval Before Overseeding			
lbs./1,000 sq. ft.	lbs./A	Ai/A	North	Transition	South
2.7	117	0.50	4 mo.	4 mo.	4 mo.
3.6	155	0.65	5 mo.	4 mo.	4 mo.
4.0	174	0.75	6 mo.	5 mo.	5 mo.
4.4	190	0.81	--	6 mo.	6 mo.
5.4	235	1.00	--	7 mo.	7 mo.
6.2	270	1.15	--	--	9 mo.
7.0	305	1.30	--	--	10 mo.
8.1	352	1.50	--	--	12 mo.

\*Note: In AZ, CA, NV and TX, the overseeding interval can be shorter in established Bermudagrass that has been overseeded with perennial ryegrass. See the next section "*Poa annua* Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV and TX only)".

## *Poa annua* Control in Established Bermudagrass Overseeded with Perennial Ryegrass (AZ, CA, NV and TX only)

Use on golf courses (excluding golf course putting greens) and lawns when overseeding with perennial ryegrass (minimum seed rate of 350 lbs./A).

How Much and When to Apply			
Amount to Apply		When to Apply	Expected Control
Lbs./Acre	Lbs./1,000		
88-155	2.0 - 3.6	6 to 8 weeks before ryegrass overseeding	One application for 70% or greater control of <i>Poa annua</i>
		Second application 4-8 weeks after overseeding date or when perennial ryegrass roots are in the second inch of soil	Second application should enhance the residual under normal weather conditions

## Use Precautions

1. Some seed mortality and temporary reduction in root growth of new seedlings may occur.
2. To reduce the potential for seeding mortality, maintain a moist seedbed with light, frequent irrigation.
3. Make no more than 2 applications per year for this use, and do not exceed 198 lbs./A (4.5 lbs./1,000 sq. ft.) for these two applications for *Poa annua* control in ryegrass overseeded turf.
4. Do not make a second application if any injury to the ryegrass is observed after the first application.
5. Do not make a second application unless the product was first applied before overseeding.

Recommended Spreader Settings					
These suggested spreader settings are not intended to replace calibration. Please calibrate your spreader before applying product.					
50 lbs. treats 15,900 sq. ft. (0.32 acre) at the 157 lbs. product/acre - LOW RATE (3.6 lbs./1,000 sq. ft.)					
50 lbs. treats 11,400 sq. ft. (0.26 acre) at the 192 lbs. product/acre - MEDIUM RATE (4.4 lbs./1,000 sq. ft.)					
50 lbs. treats 9,300 sq. ft. (0.21 acre) at the 235 lbs. product/acre - HIGH RATE (5.4 lbs./1,000 sq. ft.)					
SPREADER	GROUND SPEED	WIDTH OF COVERAGE	SPREADER SETTINGS		
			LOW RATE 0.67 lbs./A	MEDIUM RATE 0.82 lbs./A	HIGH RATE 1.0 lbs./A
The Andersons 2000 Series (cone 4)	3 mph	10 feet	M	N	0 1/2
The Andersons LO-1000	3 mph	10 feet	K 1/2	L 1/2	N
Scotts R-8A (cone 4)	3 mph	10 feet	K 1/2	L 1/2	N
Lesco 02009 (pattern 0.25)	3 mph	7 feet	E 1/2	F	F 1/2
Lesco 70568 (pattern 0.25)	3 mph	7 feet	13	14	15
Lady Modes WTR, WFR, HR, L250 (PTO at 450 rpm) Pattern B-C	4.5 mph	44 feet	5 3/4	6 1/2	7 1/4
Vicom (OS Series)	4.5 mph	40 feet	30	33	37

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **STORAGE:** Store in original container away from 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:** Completely empty container into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If not available, then dispose of empty bag or box in a sanitary landfill or at an incineration facility, or, if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

**IMPORTANT: READ BEFORE USE:** Read the entire Directions for Use and the Warranty Disclaimer and Limitation of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or Buyer accepts the following Warranty Disclaimer and Limitation of Liability:

**WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY:** Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. Manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

**LEGAL RIGHTS:** THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

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