

# Prodiamine 0.58% Plus Fertilizer

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

PRODIAMINE    GROUP    3    HERBICIDE

Active Ingredient: Prodiamine, [N <sup>3</sup> , N <sup>3</sup> -Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-Phenylenediamine .....	0.58%
Other Ingredients .....	99.42%
Total .....	100.00%

Contains 0.055 lbs prodiamine per gallon

EPA Reg. No. 60063-42-91636    EPA Est. No. 45719-PA-003

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do 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 to 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 further treatment advice.

Have the product container or label with you when calling a poison control center, or doctor, or when going for treatment. You may also call 1-800-424-9300 CHEMTREC for transportation and spills or 1-800-222-1222 for the Poison Control Center.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### 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 is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

#### DIRECTIONS FOR USE

##### 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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirement of this box apply to uses of this product that are NOT within the scope of the Workers Protection Standard for agricultural pesticides (40CFR part 170). The "WPS" applies when this product is used to produce agricultural plants on farms, forest or nurseries.

##### Keep unprotected person out of treated area until sprays have dried.

This product controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when it is activated by at least 1/2 inch of rainfall, irrigation, or shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Not for use on ornamental plants being grown for; (1) 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 ornamental gardens or parks, or on golf courses or lawns and grounds.

**DO NOT** use on sod farms. **DO NOT** graze or feed livestock forage cut from areas treated with this product. **DO NOT** apply aerially. **DO NOT** apply to golf course putting greens. **DO NOT** apply this product through any type of irrigation system.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.**

#### 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 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.

#### INTEGRATED WEED PEST MANAGEMENT

Integrate this product into an overall weed pest management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Consult local agricultural and weed authorities for additional IPM strategies established for your area.

#### 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
Carpenterweed	Lovegrass
Chickweed, common	Panicum (Texas, Fall, Browntop)
Chickweed, mouse ear (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 0.65 lb. to 1.5 lb. active ingredient per acre (equal to 112 lbs. to 259 lbs./A of this product or equal to 2.6 to 6.0 lbs./1000 sq. ft. 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 0.65 lb. to 1.0 lb. a.i. per acre (equal to 112 lbs to 173 lbs./A of this product or equal to 2.6 to 4.0 lbs./1000 sq. ft. of this product) followed after 60 to 90 days by a second application at doses that would not exceed those given in the Maximum Annual Rate section. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual Rate section.

<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 each turf species. All applications must be made prior to germination of the weed seeds.

#### USE RESTRICTIONS

The following restriction apply to the use of this product in turf grasses and lawns:  
**DO NOT** cut (harvest) treated sod before 120 days after application. **DO NOT** apply to newly set sod until the following year. **DO NOT** allow people or pets to enter the treated area until the spray has dried.

#### USE PRECAUTIONS

The following precautions apply to the use of this product in turf grasses and lawns: (1) Application of this product may thin emerged annual bluegrass and newly overseeded grasses. (2) 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. (3) Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury. (4) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (5) Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.

# 15-2-4

#### GUARANTEED ANALYSIS

TOTAL NITROGEN (N) .....	15.00%
8.50% Urea Nitrogen	
0.00% Ammoniacal Nitrogen	
1.75% Water Insoluble Nitrogen	
4.75% Water Soluble Nitrogen*	
AVAILABLE PHOSPHATE (P <sub>2</sub> O <sub>5</sub> ) .....	2.00%
SOLUBLE POTASH (K <sub>2</sub> O) .....	4.00%
CALCIUM (Ca) .....	2.31%
IRON (Fe) .....	1.00%

**DERIVED FROM:** Urea, Biosolids, Muriate of Potash, Dolomitic Pelletized Lime and Polymer Coated Urea

\*4.75% Slowly Available Nitrogen from Biosolids and Polymer Coated Urea

#### 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 inches 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 SEED GERMINATION DATES



#### 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 may be used on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate /Calendar Year of turf fertilizer by turf grass species <sup>(1)</sup>			
Turf Species:	Lbs. Product /A	Lbs. Product /1000 sq. ft.	Lbs. a.i./A
Creeping Bentgrass	112	2.6	0.65
Creeping Red Fescue	130	3.0	0.75
Buffalograss			
Kentucky Bluegrass	173	4.0	1.0
Perennial Ryegrass			
Bermudagrass <sup>(2)</sup> /Bahagrass			
Centipedegrass			
Seashore Paspalum	259	6.0	1.5
St. Augustinegrass			
Tall Fescue (including turf-type)			
Zoysia			

<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 0.5 lb. a.i./acre (equal to 85 lbs./A of this product or equal to 2.0 lbs./1000 sq. ft. of this product). 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 1.5 lbs. a.i. per calendar year per acre (equal to 259 lbs./A of this product or equal to 6.0 lbs./1000 sq. ft. of this product).

• Use higher rates of this product to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates Table.

#### 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 following table below for best overseeding/reseeding results.

#### Overseeding Rate and Treatment Interval Chart

Lbs. Product /Acre	Lbs. Product /1000 sq. ft.	Lbs a.i. /A	Months Before Overseeding		
			North	Transition	South
86	2.0	0.50	4	4	4
112	2.6	0.65	5	4	4
130	3.0	0.75	6	5	5
138	3.2	0.80	-	6	6
173	4.0	1.00	-	7	7
197	4.5	1.14	-	-	9
224	5.2	1.30	-	-	10
259	6.0	1.50	-	-	12

#### STATE SPECIFIC RESTRICTIONS

The maximum rate of application of this product must not exceed the lesser of the applicable rate determined from the Maximum Annual Rates section table, and the applicable rate determined in the State Nutrient Restrictions table below.

#### STATE NUTRIENT RESTRICTIONS

State	Readily Available Nitrogen*	Total Nitrogen
MD, NH, VA	0.7	0.9
NJ	0.7	1.0

\*Nitrogen present beyond the amount shown as Readily Available must be in the form of slow-release nitrogen

**In Maryland** This fertilizer contains phosphorus and may not be used on turf in the state of Maryland except when 1) Providing nutrients to specific soils and target vegetation as determined to be necessary 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; 2) Establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates established by the State; or 3) Reestablishing or repairing a turf area.

**In Virginia and New Jersey,** this lawn/turf fertilizer contains phosphorus and is only for nonagricultural use on (i) turf during its first growing season, (ii) on turf areas being repaired or renovated, and (iii) on turf where a soil test performed within the last 3 years indicates a phosphorous deficiency. This fertilizer is not for the routine maintenance of turf.

#### STORAGE AND DISPOSAL

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

**STORAGE:** Store this product in its original container in a dry, cool, secured area.

**PESTICIDE DISPOSAL:** As a responsible environmental practice, where possible, it is recommended that all of the contents of the bag be used, carefully following label directions and precautions. Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then 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.

#### CONDITIONS OF SALE AND WARRANTY

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 SynaTek, LP or the Seller. All such risks shall be assumed by the Buyer. SynaTek, LP warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. SynaTek, LP makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall SynaTek, LP or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this Product. SynaTek, LP and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of SynaTek, LP.

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**NET CONTENTS: 50 LBS (22.70 kg)**

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