

**FERTILIZER WITH REGALKADE  
PREEMERGENCE WEED CONTROL**

**ACTIVE INGREDIENT:**

Prodiamine: [N<sup>3</sup>,N<sup>3</sup>-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine . . . . . 0.37%

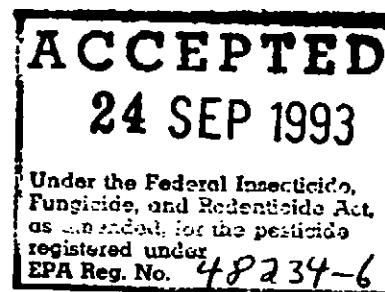
INERT INGREDIENTS: . . . . . 99.63%

TOTAL: . . . . . 100.0%

**Guaranteed Fertilizer Analysis:**

Nitrogen 32 % (N)  
Phosphorus 4 % (P<sub>2</sub>O<sub>5</sub>)  
Potassium 6 % (K<sub>2</sub>O)

Nitrogen from: Urea formaldehyde, Urea, Ammonia



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

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

See the following section, Precautionary Statements, Hazards To Humans and Domestic Animals, for additional information.

**Net Weight:**

EPA Reg. No. 48234-6  
EPA Est. No. 48234-GA-1

Regal Chemical Co.  
600 Branch Rd.  
Alpharetta, GA 30201

BARRICADE® is a Registered Trademark of Sandoz, Ltd.

2014

**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.

**Statements of Practical Treatment**

If in eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.

If on skin: Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.

If inhaled: Remove victim to fresh air.

**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. For terrestrial use, 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 washwaters.

2/14

## STORAGE AND DISPOSAL

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

### 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

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or; puncture and dispose of 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.

Paper and plastic containers: Completely empty container into application equipment. Then dispose of empty container 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.

Fiber Drums: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residues into application equipment. Dispose of empty liner in a sanitary landfill or at an incineration facility if allowed by state and local authorities. If the drum cannot be reused, dispose of in a sanitary landfill or by incineration if allowed by state and local authorities.

4/8/14

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf grasses and landscapes. This product controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control this product must be incorporated by 1/2 inch of rainfall, irrigation or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application.

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 ornamental gardens or parks, or on golf courses or lawns.

Do not apply this product through any type of irrigation system.

Do not apply aerially.

Do not apply to golf course putting greens.

### Application Directions

Apply uniformly through suitable, calibrated commercial application equipment.

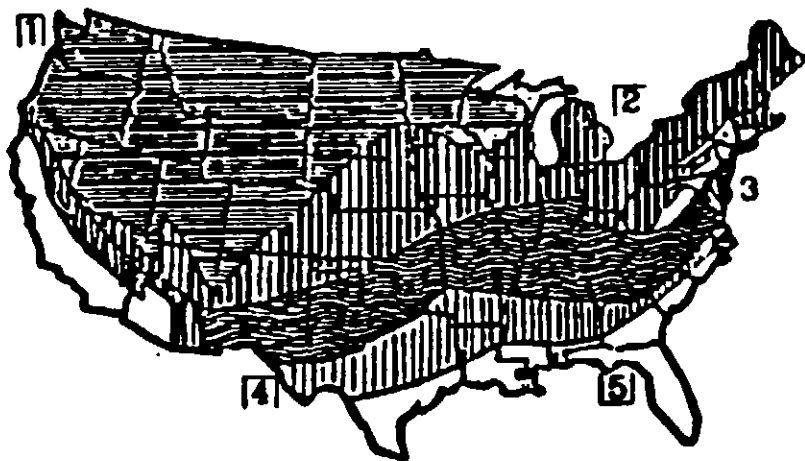
### ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grass and lawns. The species of turf grass determines the maximum amount of material that may be applied during a year.

Most effective weed control in turf grasses will be obtained when this product is activated by at least 1/2 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

### CRABGRASS SEED GERMINATION DATES

Approximate Date



- 1 After May 30
- 2 After May 10
- 3 After April 20
- 4 After March 20
- 5 Jan 1 to Mar 20

**Use Precautions**

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

Application of this product may thin emerged annual bluegrass and newly over-seeded grasses.

Do not apply to OVERSEEDED TURF for 60 days after seeding or until after the second mowing, which ever 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.

)



**Maximum Annual Rates**

This product should not be applied above a maximum annual rate of 405 lbs./A or 9.1 lbs./1000 ft<sup>2</sup>.

**Turf Species and Rates**

For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control . The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20 (See Crabgrass Seed Germination Data Map).

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds. This product will not control established weeds.

The rates listed in the table below are for weed control of approximately 2-6 months.

**Turf Species and Rates Table:**

<b>Turf Species:</b>	<b>Maximum Rate of this product Per Calendar Year Lbs./A (Lbs./1000 ft<sup>2</sup>)</b>
Bermudagrass* Centipedegrass Seashore Paspalum Tall Fescue (including turf-type) Zoysia	405 (9.1)
Kentucky Bluegrass Perennial Ryegrass	270 (6.1)
Creeping Red Fescue St. Augustinegrass	200 (4.7)
Creeping Bentgrass	178 (4.1)

\* May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 140 lbs. product per acre or 3.0 lbs. product per 1000 ft<sup>2</sup>. On newly sprigged or plugged Bermudagrass temporary slowing of stolon rooting may occur. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 203 lbs. of this product per application.
- Do not apply more than 405 lbs. of this product per calendar year.
- If making more than one application, do not apply more than 203 lbs. of this product within any 60 day period.
- Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type.

**Weeds Controlled**

When used at the recommended rates (see Turf Species and Rates Table) this product will control:

- |                              |                              |
|------------------------------|------------------------------|
| Crabgrass (large, smooth)    | Carpetweed                   |
| Annual Bluegrass (Poa annua) | Common Chickweed             |
| Goosegrass <sup>1</sup>      | Common Lambsquarter          |
|                              | Common Purslane              |
| Annual Foxtails              | Henbit                       |
| Barnyardgrass                | Knotweed                     |
| Broadleaf Signalgrass        | Pigweed                      |
| Johnsongrass (from seed)     | Prostrate Spurge             |
| Rescuegrass <sup>3</sup>     | Shepardspurse <sup>2</sup>   |
|                              | Yellow woodsorrel(from seed) |

Do not exceed the maximum annual application rates recommended for the turf species. All applications must be made prior to germination of weed seeds. This product will not control established weeds.

- 
1. In many areas a single application of 178 to 200 lbs/Acre of this product will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, apply an initial treatment of 200 lbs/Acre followed after 60 days with a second treatment of 65 to 200 lbs/Acre for season long goosegrass control.
  2. Winter weeds are best controlled by applications made prior to germination: late summer, fall or winter timings.
  3. Suppression only.



**Overseeding/Reseeding**

This product will inhibit the germination of turf species if overseeded/reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and soil moisture. A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry. Use the Overseeding/Reseeding Intervals Table below as a guide when choosing the appropriate overseeding/reseeding interval for each situation.

**Overseeding/Reseeding Intervals Table:**

This Product Rate (lbs./A)	Overseeding/Reseeding Interval (months) Based Upon Seeding Method and Predominant Soil Conditions for the Season			
	Broadcast Seeding		Drill Seeding	
	Wet and Warm	Cool and Dry	Wet and Warm	Cool and Dry
140	6	3	4	
270	8	12	6	8
405	12	18	9	12

## LANDSCAPE ORNAMENTALS

This product is recommended for use on landscape ornamentals. Do not apply more than 200 lbs./A in any 60 day interval, and do not exceed the maximum rate per calendar year of 405 lbs./A.

This product will not harm most established ornamental trees, shrubs and flowers. The following species have shown tolerance to this product:

Scientific name	Common name
Acer palmatum	Japanese Maple
A. platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladwynensis	
B. julianae	Wintergreen Barberry
B. mentorensis	Mentor Barberry
B. thunbergii	Japanese Barberry
B. verruculosa	Warty Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisoides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Cornus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. buxifolius	
C. dammeri	Bearberry Cotoneaster
C. microphyllus	Rockspray Cotoneaster
Cupressus sempervirens	Italian Cypress
Delasperma alba	White Trailing Ice Plant
Dodonea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper

\*Ornamental species only. Do not use on food producing trees or vines.

Scientific name

Common name

Scientific name	Common name
E. japonica	Evergreen Euonymus
E. kiautschovica	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
F. viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape-Jasmine
Hedera helix	English Ivy
Hibiscus rosa-sinensis	Chinese Hibiscus
Ilex cornuta	Chinese Holly
I. crenata	Japanese Holly
I. opaca	American Holly
I. pernyi	
Jasminium nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
J. conferta	Shore Juniper
J. horizontalis	Creeping Juniper
Juglans sp.	Walnut*
Justicia brandegeana	Shrimp Plant
Lagerstromia indica	Crepe Myrtle
Ligustrum amurense	Amur Privet
L. japonicum	Japanese Privet
L. lucidum	Glossy Privet
Liriope muscari	Big Blue Lily Turf
Lonicera japonica	Japanese Honeysuckle
L. tatarica	Tatarian Honeysuckle
Maleophora luteola	Ice Plant
Malus sp.	Crabapple*
Nandina domestica	Heavenly Bamboo
Olea europa	Olive*
Ophiopogon japonicus	Mondo Grass
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum arboreum	Sourwood
Persea americana	Avocado*
Photinia fraseri	Frasier's Photinia
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley Shrub

\*Ornamental species only. Do not use on food producing trees or vines.

Scientific name

Common name

-----  
 Pinus brutia  
 P. canariensis  
 P. halepensis  
 P. nigra  
 P. radiata  
 P. thunbergiana  
 P. strobus  
 P. sylvestris  
 Pistachio sp.  
 Pittosporum rhombifolium  
 P. tobira  
 Podocarpus macrophyllus  
 Prunus laurocerasus  
 Prunus sp.

-----  
 Calabrian Pine  
 Canary Island Pine  
 Aleppo Pine  
 Austrian Black Pine  
 Monterey Pine  
 Japanese Black Pine  
 Eastern White Pine  
 Scotch Pine  
 Pistachio\*  
 Queensland Pittosporum  
 Mock Orange  
 Japanese Yew  
 English Laurel  
 Almond, Apricot, Nectarine, Peach,  
 Plum and Prune\*

Pyracantha coccinea  
 P. fortuneana  
 P. koidzumii  
 Pyrus sp.  
 Quercus rubra  
 Raphiolepis indica  
 Rhododendron  
 (including Azalea)

Firethorn  
 Firethorn  
 Firethorn  
 Bradford Pear sp.  
 Red Oak  
 Indian Hawthorne  
 'Coral Bells'  
 'Formosa'  
 'Hino-crimson'  
 'PJM'

Rosa banksiae  
 Rosmarinus officinalis  
 Santolina virens  
 Sedum album  
 Syzygium paniculatum  
 Taxus cuspidata  
 T. media  
 Thuja occidentalis  
 Trachelospermum asiaticum  
 Tsuga canadensis  
 Viburnum japonicum  
 V. odoratissimum

'Roseum Elegans'  
 Lady Bank's Rose  
 Rosemary  
 Stonecrop  
 Japanese Boxcherry  
 Japanese Yew  
 Yew  
 American Arborvitae  
 Star Jasmine  
 Canada Hemlock  
 Japanese Viburnum  
 Sweet Viburnum

\*Ornamental species only. Do not use on food producing trees or vines.

Scientific name

Common name

-----  
 V. plicatum  
 V. rigidum  
 V. tinus  
 V. trilobium  
 V. wrightii  
 Vinca minor  
 Vitis sp.  
 Weigela .lorida  
 Yucca aloifolia  
 Y. filamentosa

-----  
 Japanese Snowball  
 Canary Island Viburnum  
 Laurustinus  
 Cranberry Bush  
  
 Dwarf Periwinkle  
 Grape\*  
 Old Fashioned Weigela  
 Spanish Bayonet  
 Yucca,  
 Adam's Needle

\*Ornamental species only. Do not use on food producing trees or vines.

14814

**WARRANTY STATEMENT**

Regal Chemical company warrants that this product conforms to the chemical descriptions on its label. When used in accordance this label directions under normal conditions, this product is reasonably fit for its intended purpose. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or nor reasonably foreseeable. The user assumes all risks of any such use.