

59144-30

9.11.2007

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SEP 11 2007

Ms. Kim Davis
CC, APC, Manager
Consultant/Agent
Gro Tec, Inc.
c/o RegWest Company, LLC
30856 Rocky Road
Greeley, CO 80631-9375

RE: Label Revisions
EPA Reg. No.: 59144-30
Date of Submission: August 10, 2007

Dear Ms. Davis:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated August 10, 2007, for the product Weed Grass Preventer (Contains 0.38% Barricade). The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

United States Environmental Protection Agency 1200 Pennsylvania Avenue, N.W. Washington, DC 20460-0001	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number <h2 style="text-align: center;">Notification</h2>
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Application for Pesticide – Section I

1. Company/Product Number <p style="text-align: center;">EPA Reg. No. 59144-30</p>	2. EPA Product Manager <p style="text-align: center;">Joanne Miller</p>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/ Product (Name) Weed + Grass Preventer (Contains 0.38% Barricade®)	PM # <p style="text-align: center;">23</p>	
5. Name and Address of Applicant (Include ZIP Code) Gro Tec, Inc. c/o RegWest Company, LLC 30856 Rocky Road Greeley, CO 80631-9375 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i) my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section – II

<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain below.
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Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Submit notification label revisions per PR Notice 98-10.
(Refer to the Reference Label for an illustration of the label revisions.)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR § 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR § 152.46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section – III

1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify): _____
*Certification must be submitted		If "Yes" Unit Packaging Wgt. No. Per Container	If "Yes" Packaging Wgt. No. Per Container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling Accompanying Product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Stenciled <input type="checkbox"/> Paper glued <input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application).

Name Kim Davis, CC, APC, Manager	Title Consultant/Agent	Telephone No. (Include Area Code) (970) 353-0611 kim@regwest.com
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Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received
(Stamped)

2. Signature 	3. Title <p style="text-align: center;">Consultant/Agent</p>
4. Typed Name <p style="text-align: center;">Kim Davis, CC, APC, Manager</p>	5. Date <p style="text-align: center;">August 10, 2007</p>

Non-PRIA Submission



August 10, 2007

Ms. Sherada Hobgood
Document Processing Desk – **NOTIF**
Office of Pesticide Programs – **7504C**
U.S. Environmental Protection Agency
2777 South Crystal Drive
One Potomac Yard, Room S-4900
Arlington, VA 22202

Dear Ms. Hobgood:

Subject: Gro Tec, Inc.
Weed + Grass Preventer (Contains 0.38% Barricade®)
EPA Reg. No. 59144-30

On behalf of **Gro Tec, Inc.**, RegWest Company, LCC is submitting the attached materials as notification of a label revision for subject product. RegWest will act as sole agent in this endeavor.

Attached are the following documents:

1. Application for Pesticide: Other (Notification)
2. One **Reference Label** (illustrating the changes)
3. Two **New Labels** (incorporating the changes)
4. Two market labels

Please refer to the **Reference Label** for an illustration of all changes (occurring on pages 1, 2, 3, 4, 12 and 13).

Please contact me at (970) 353-0611 or kim@regwest.com if you have any questions concerning this notification.

Regards,
RegWest Company, LLC

A handwritten signature in black ink, appearing to be "Kim Davis", written over a circular stamp or mark.

Kim Davis, CC, APC, Manager
Consultant/Agent

Attachments

pc: CPI - Hacker, S.

30856 Rocky Road
Creeley, CO 80631-9375
970-353-0611
970-353-0613 Fax
Kim@regwest.com

4/93

Weed + Grass Preventer

(Contains 0.38% Barricade®)

Cut Here to Open
{Scissors Graphic}

For Selective Preemergent Control of Grass and Broadleaf Weeds in:
Established Turf Grasses (excluding Golf Course Putting Greens) and Lawns
Landscape Ornamentals (Including Established Perennials and Wildflower Plantings)

20 Pounds Treats up to 5,128 Sq. Ft. an area approximately 51' x 100'
40 Pounds Treats up to 10,256 Sq. Ft. an area approximately 102.5' x 100'
50 Pounds Treats up to 12,820 Sq. Ft. an area approximately 128' x 100'

Contains 0.38% Barricade® Preemergent Herbicide
Feeds up to 4 Months
Crabgrass Preventer Plus Fertilizer with Barricade® 0.38%
Controls Crabgrass
Season-Long Crabgrass Control

Quality Fertilizers from The Lawn Seed Experts
Crabgrass Preventer + Lawn Fertilizer 5-10-25 28-3-4 20-3-4
Controls Grass and Broadleaf Weeds Before they Germinate
Contains an Effective Pre-emergent Herbicide for Control of Crabgrass
and Many Other Nuisance Grasses and Broadleaf Weeds
Also Controls Barnyardgrass, Annual Bluegrass (*Poa annua*), Crabgrass,
Chickweed, Foxtails, Goosegrass, Henbit, Pigweed and Spurge
Feeds Your Desirable Grass up to 4 Months with a Complete Fertilizer
Featuring Pennington's Coated Slow-Release Nitrogen for a longer lasting green lawn

Pike Family Nurseries Signature Collection
Individually Selected by the Pike Family
Over forty-five years of knowing what is best for Southern lawns

Active Ingredient:
*Prodiamine 0.38%
Other Ingredients 99.62%
*CAS No. 29092-21-2 Total 100.00%

Keep Out of Reach of Children
CAUTION
See back panel for additional precautionary statements.

EPA Reg. No. 59144-30 EPA Est. _____

Net Weight: _____ pounds (___ kg)

GRO TEC, INC.
P.O. Box 290
Madison, GA 30650
1-800-285-SEED
www.penningtonseed.com

[redacted] 1-888-648-8955
[redacted] 1-800-424-9300

Barricade® is a Registered Trademark of Syngenta Crop Protection

N {#} <u>Nitrogen</u> <u>Produces lush, dark green</u> <u>plant growth</u>	P {#} <u>Phosphorous</u> <u>Promotes root growth and</u> <u>development</u>	K {#} <u>Potassium</u> <u>Improves lawn's hardiness and</u> <u>disease resistance</u>
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Guaranteed [Fertilizer] Analysis 5-10-25
{Code}

Total Nitrogen (N) 5.00%
 3.90% [redacted] Ammoniacal Nitrogen
 1.10% Urea Nitrogen
 Available Phosphate (P₂O₅) 10.00%
 Potassium (K₂O) 25.00%
 Derived from: Urea, Ammonium Phosphate, Muriate of Potash.

Guaranteed [Fertilizer] Analysis 28-3-4 F525

Total Nitrogen (N) 28.00%
 1.17% Ammoniacal Nitrogen
 26.83% Urea Nitrogen
 Available Phosphate (P₂O₅) 3.00%
 Soluble Potash (K₂O) 4.00%
 Total Iron (Fe) 1.00%
 0.25% Water Soluble Iron (Fe)
 Derived from: Sulfur Coated Urea, Ammonium Phosphate,
 Muriate of Potash, Iron Sulfate, Iron Oxide
 *Part of the nitrogen in this product has been sulfur coated
 to provide 7.00% coated slow-release nitrogen.

Guaranteed [Fertilizer] Analysis 20-3-4

Total Nitrogen (N) 20.00%
 1.00% Ammoniacal Nitrogen
 19.00% Urea Nitrogen
 Available Phosphate (P₂O₅) 3.00%
 Potassium (K₂O) 4.00%
 Derived from: Urea, Ammonium Phosphate, Muriate of Potash.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Thoroughly wash 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 in Eyes	<ul style="list-style-type: none"> • 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 on Skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If Inhaled	<ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. [You may also contact 1-800-424-9300 for emergency medical treatment information.]</p>	

{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

Environmental Hazards

This product has low solubility in water. At the limit 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 washwaters.

DIRECTIONS FOR USE

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

Storage and Disposal

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

Storage: Store in original container [bag] in a cool, dry (preferably locked) storage area. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep container [bag] closed when product is not being used. **Pesticide Disposal: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency [REDACTED] for disposal instructions. Never place unused product down any indoor or outdoor drain.

For household/domestic use product in bags 25 to 50 pounds:

[Storage and Disposal]

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

Storage: Store in original bag in a cool, dry (preferably locked) storage area inaccessible to children and pets. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep bag closed when product is not being used. **Pesticide Disposal: If empty:** Do not reuse this container. 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.

7/33

For household/domestic use product in bags up to 25 pounds:

[Storage and Disposal]

Storage: Store in original bag in a cool, dry (preferably locked) storage area inaccessible to children and pets. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep bag closed when product is not being used. **Disposal: If empty:** Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency [redacted] for disposal instructions. Never place unused product down any indoor or outdoor drain.

This product is a selective preemergent herbicide that provides residual control of many grass and broadleaf weeds in

- established turf grasses (excluding golf course putting greens) and lawns
- landscape ornamentals
- established perennials and wildflower plantings.

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

Not for use on plants being grown for sale or other commercial use, commercial seed production or 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 (excluding putting greens) or lawns and grounds.

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. Do not apply aerially. Do not apply to golf course putting greens. 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

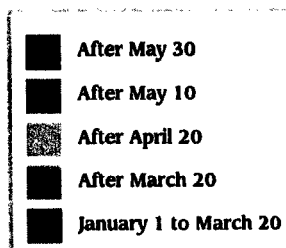
Uniformly apply using suitable, calibrated application equipment.

Established Turf

This product is a selective preemergent herbicide that, when properly applied, controls certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of 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 is obtained when this product is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map for approximate crabgrass seed germination dates.

Crabgrass Seed Germination Dates



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) Do not cut treated sod within 120 days after application. Do not apply to newly set sod until the following year. (4) Application to turf stressed by drought, low fertility or pest damage may result in turf injury. (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (6) 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

Apply this product 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. Base the maximum use rate selection 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 Application Rate of This Product per Calendar Year By Turf Grass Species¹			
Turf Species	Lbs. Product/A	Lbs. Product/100 Sq. Ft.	Lbs. AI/A
Bermudagrass ² , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	395	0.91	1.5
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	263	0.60	1.0
Creeping Red Fescue	197	0.45	0.75
Creeping Bentgrass	171	0.39	0.65

/A = per Acre A.I. = Active Ingredient

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 137 lbs./A (0.32 lbs./100 sq. ft.). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Only suppresses Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 395 lbs./A (0.91 lbs./100 sq. ft.) of this product per calendar year.
- 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.

Weeds Controlled

When used in accordance with this label this product controls the following weeds:

- | | |
|--|----------------------|
| Barnyardgrass | Kochia |
| Bluegrass, Annual (<i>Poa annua</i>) | Lambsquarter, Common |
| Carpetweed | Lovegrass |

Chickweed, Common
Chickweed, Mouseear (from seed)
Crabgrass (Large, Smooth)
Crowfootgrass
Cupgrass, Woolly
Foxtails, Annual
Goosegrass¹
Henbit
Itchgrass
Johnsongrass (from seed)
Junglerice
Knotweed

Panicum (Texas, Fall, Browntop)
Pigweed
Purslane, Common
Pusley, Florida
Rescuegrass²
Shepherd's Purse³
Signalgrass, Broadleaf
Speedwell, Persian
Sprangletop
Spurge, Prostate
Witchgrass
Woodsorrel, Yellow (from seed)

¹In many areas a single application of 171 to 395 lbs./A (0.39 to 0.91 lbs./100 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 171 to 263 lbs./A (0.39 to 0.61 lbs./100 sq. ft.) followed 60 to 90 days later by a second application that does not exceed the maximum annual rate. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates** table.

² Suppression only.

³Apply in later summer, fall or winter prior to germination.

Sequential applications may be made provided the total amount of product applied does not exceed the recommended maximum annual application rate for each turf species. 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 inhibits the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding results.

Rate of This Product			Months Before Overseeding		
Lbs. / A	Lbs. / 100 Sq. Ft.	Al / Acre	North	Transition	South
132	0.30	0.50	4	4	4
171	0.39	0.65	5	4	4
195	0.45	0.75	6	5	5
210	0.48	0.80		6	6
263	0.61	1.00		7	7
300	0.69	1.14			9
342	0.79	1.30			10
395	0.91	1.50			12

Landscape Ornamentals (including Established Perennials and Wildflower Plantings)

This product may be applied for residual weed control in ornamentals.

Use Rates

Apply this product at 171 to 395 lbs./A (0.39 to 0.91 lbs./100 sq. ft.) in fall and/or spring. Use higher application rates for longer control periods. Sequential or single applications may be made provided the total amount of product applied does not exceed the maximum annual application rate of 395 lbs./A.

Application Timing and Information

This product is a preemergent herbicide and will not control emerged weeds. Most effective weed control in ornamentals is obtained when this product is activated by at least 1/2 inch of rainfall or irrigation, or with shallow (1 to 2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application. Best weed control is obtained when this product is applied to soil free of clods, weeds and debris such as leaves. Prior to application of this product, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergent herbicide.

Established Landscape Ornamentals

This product may be applied to established ornamentals as a broadcast, over the top or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate this product into the soil.

Newly-Transplanted Landscape Ornamentals

This product may be applied to newly transplanted ornamentals as a broadcast, over the top or directed application. Delay application to allow soil to settle around new transplants and thoroughly water before applying this product. Apply this product after cuttings form roots and become established. Apply before buds/grafts have taken to avoid any inhibition of the tissue union.

Tolerant Ornamental Species

This product will not harm most ornamental trees, shrubs, vines and flowers. The species listed in Table 1 are tolerant to this product. This product is also approved for application, except in California, to the species in Table 2. Best results are obtained when this product is uniformly applied to the soil surface; avoid applying to ornamental shoots as this may prevent uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress, such as heat, drought or frost damage, some cultivars of listed plants may be sensitive to this product.

Table 1 – Tolerant Ornamental Species (All States)

Scientific Name	Common Name
Abies spp.	Fir species** (Balsam, Fraser, Noble, etc.)
Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladwynensis	Barberry
Barberis julianae	Wintergreen Barberry
Barberis mentorensis	Mentor Barberry

Scientific Name	Common Name
<i>Barberis thunbergii</i>	Japanese Barberry
<i>Barberis verruculosa</i>	Warty Barberry
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisoides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp.	Citrus species*
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus stolonifera</i>	American Dogwood
<i>Cortaderia sellonana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>Cotoneaster buxifolius</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster microphyllus</i>	Rockspray Cotoneaster
<i>Cretaeagus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delasperma alba</i>	White Trailing Ice Plant
<i>Dodonea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>Euonymus japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>Euonymus kiautschovicks</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia viridissima</i>	Greenstem Forsythia
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gladiolus</i> spp.	Gladiolus species**
<i>Hedera helix</i>	English Ivy
<i>Hibiscus</i>	Rose of Sharon**
<i>Hibiscus Rosa-sinensis</i>	Chinese Hibiscus
<i>Ilex cornuta</i>	Chinese Holly
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex opaca</i>	American Holly
<i>Ilex pernyi</i>	Holly
<i>Ilex vomitoria</i>	Yaupon Holly
<i>Iris</i> spp.	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus conferta</i>	Shore Juniper
<i>Juniperus horizontalis</i>	Creeping Juniper
<i>Juglans</i> spp.	Walnut*

Scientific Name	Common Name
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crepe Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum japonicum</i>	Japanese Privet
<i>Ligustrum lucidum</i>	Glossy Privet (Wax-leaf)
<i>Liriope muscari</i>	Big Blue Lilyturf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Lonicera tatarica</i>	Tatarian Honeysuckle
<i>Magnolia</i> spp.	Magnolia species**
<i>Malephora luteola</i>	Ice Plant
<i>Malus</i> spp.	Crabapple*
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.	Narcissus species**
<i>Nerium</i> spp.	Oleander
<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Picea</i> spp.	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>Pinus canariensis</i>	Canary Island Pine
<i>Pinus elliottii</i>	Slash Pine
<i>Pinus halepensis</i>	Aleppo Pine
<i>Pinus nigra</i>	Austrian Black Pine
<i>Pinus palustris</i>	Longleaf Pine
<i>Pinus radiata</i>	Monterey Pine
<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Pinus taeda</i>	Loblolly Pine
<i>Pinus thunbergiana</i>	Japanese Black Pine
<i>Pinus virginiana</i>	Virginia Pine
<i>Pistachio</i> spp.	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>Pittosporum tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllum</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> spp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn Scarlet
<i>Pyracantha fortuneana</i>	Firethorn
<i>Pyracantha koidzumii</i>	Firethorn
<i>Pyrus</i> spp.	Bradford Pear spp.

13/33

Scientific Name	Common Name
<i>Quercus rubra</i>	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i> (including Azalea)	"Coral Bells," "Formosa," "Hino-crimson," "PJM," "Roseum Elegans"
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i>	Rosemary*
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	
<i>Sedum album</i>	Stonecrop
<i>Syzygium paniculatum</i>	Japanese Boxcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>Taxus media</i>	Yew
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Tulipa</i> spp.	Tulip species
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>Viburnum odoratissimum</i>	Sweet Virurnum
<i>Viburnum plicatum</i>	Japanese Snowball
<i>Viburnum rigidum</i>	Canary island Viburnum
<i>Viburnum tinus</i>	Laurustinus
<i>Viburnum trilobum</i>	Cranberry Bush
<i>Viburnum wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Vinca
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Vitis</i> spp.	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	Yucca, Adam's Needle

*Do not use on food producing trees, vines or plants.

**Not for use on container grown plants.

Table 2 – Tolerant Ornamental Species/Varieties (All States Except California)

Scientific Name	Common Name
<i>Abelia grandiflora</i>	Abelia: Sherwood
<i>Achillea</i> spp.	Yarrow: King Edward
<i>Agapanthus orientalis</i>	
<i>Akebia quinata</i>	Five-Leaf or Chocolate Vine
<i>Allium cemuum</i>	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i>	Japanese Anemone
<i>Aquilegia</i> spp.	Aquilegia: Red and Gold
<i>Artemisia</i> spp.	Wormwood: Silver Mound, Castle
<i>Aster</i> spp.	Aster: Bonny Blue, Purple Dome

Scientific Name	Common Name
Aster X frikartii	
Athyrium filix-femina	Lady Fern; Fern Lady
Begonia spp.	Fibrous Begonia: Hardy Grandis
Bergenia cordifolia	
Boltonia asteroides	Snowbank
Bougainvillea spp.	Bougainvillea
Buddleia davidii	Butterfly-Brush (Dwarf Blue); Royal Red
Callistemon citrinus	Crimson Bottlebrush
Campanula carpatica	Tussock Bellflower (White Clips)
Campis X tagliabuana	Trumpet Creeper, Trumpet Flower; Madame Galen
Ceratostigma plumbaginoides	
Chrysanthemum nipponicum	
Coreopsis spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
Crocosmia spp.	Lucifer
Delosperma spp.	Cooperi Pink
Delphinium spp.	Larkspur; Blue Elf
Dianthus deltoides	Dianthus, maiden Pinks "Zing"
Dianthus gratianopolitanus	Cheddar Pink
Echinacea pupurea	Coneflower, Purple; Magnus
Forsythia suspensa	Weeping Forsythia
Gaillardia spp.	Gaillardia, Blanket Flower: "Goblin"
Gentiana dahurica	Gentian
Geranium cinereum	Cranesbill
Gypsophila repens	Baby's Breath
Helianthemum spp.	Sunrose
Hemerocallis spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love
Heucherella spp.	Coral Bell; Bridget Bloom
Hibiscus spp.	Mallow; Disco Belle White
Hosta plantaginea	Hosta, Plantain Lily (Fragrant)
Hosta sieboldiana	Hosta, "Searsucker"
Houttuynia cordata var. variegata	
Hydrangea macrophylla	Bigleaf Hydrangea
Inula ensifolia	
Iris ensata	Sword-Leaved Iris; Jodlesong
Iris siberica	Siberian Iris; Cabernet
Juniperus davurica	Parsoni
Lagerstromia indica x fauriei	Crape Myrtle; Tuscarora
Lantana montevidensis	Weeping Lantana
Lavender spp.	Lavender; Munstead
Leontopodium alpinum	Edelweiss
Ligstrum sinense	Chinese Privet; Variegata
Lilium spp.	Lily: Jazz
Lirope muscari var. variegata	Lirope, Variegated
Lirope spicata	Lirope, Creeping

Scientific Name	Common Name
<i>Lobelia cardinalis</i>	Cardinal Flower, Indian Pink
<i>Loropetalum chinenseq</i>	Burgundy
<i>Lythrum spp.</i>	Loosestrife; Modern Pink
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Oenothera missouriensis</i>	Evening Primrose
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly): Gulf Tide
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Physostegia virginiana</i>	Dragonhead, False; Vivid
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Rhaphiolepis umbellata</i>	Yedda Hawthorne
<i>Rhododendron</i> (including azalea)	"Delaware Valley White," "Flame Creeper," "Girard Crimson," "George L. Tabor," Wakeiebisu, White Gumpo
<i>Rudbeckia spp.</i>	Black-Eyes Susan: Goldstrum
<i>Saxifraga spp.</i>	Saxifrage; Purple Dome
<i>Scabiosa spp.</i>	Pincushion Flower
<i>Sedum caudicola</i>	Stonecrop; Lidakense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea bumalda</i>	Spirea: Anthony Waterer
<i>Syzyglum paniculatum</i>	Australian Brushcherry
<i>Teucrium spp.</i>	Germander
<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Veronica spp.</i>	Veronica, Speedwell; Sunny Border
<i>Viburnum suspensum</i>	Arrowood Virburmum

*Do not use on food producing trees, vines or plants.
 **Not for use on container grown plants.

Spreader Settings

Rotary spreaders are easier to use and reduce streaking that's often caused by drop spreaders. While drop spreaders work well, they require more care to avoid gaps and streaks that appear as light green stripes about a week after fertilizer application. Always apply with a properly calibrated rotary or drop type fertilizer spreader. Never apply by hand. Refer to and follow the spreader manufacturer's calibration and setting instructions.

Broadcast Spreaders		Drop Spreaders	
[redacted] Pennington 2000B	13	Scotts 1000	8
[redacted] Pennington 2050SU	13	Scotts 3000	7
[redacted]		Red Devil	5
Scotts SG3000	8		
Red Devil	9		

The above spreader settings are approximate. Calibrate your spreader on 100 square feet and adjust to apply at the rate of 0.91 pound of product per 100 square feet.

Broadcast Spreaders		Drop Spreaders	
<u>{Broadcast Spreader Graphic}</u>	<u>For best results, apply in a circular path starting on the outside and working toward the center overlapping slightly to ensure complete coverage.</u>	<u>{Drop Spreader Graphic}</u>	<u>Apply 2 strips along each end. Then apply along length of lawn, overlapping slightly and shutting off the spreader before each turn at edge of border strips.</u>

Warranty & Disclaimer

This product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. To the extent not prohibited by applicable law, Manufacturer is not responsible for the use of this product contrary to the label instructions, under abnormal conditions or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes the risk of any such use. If you decide, after reading this label, that you can't use this product immediately return the unopened package to the point of purchase.

In case of emergency, call 800-424-9300

[TurfKing™ products distributed by Inter-American Products, Cincinnati, OH 45202]

{This product is marketed under the following additional brand names:

Pennington® Crabgrass Preventer + Lawn Fertilizer 5-10-25 (01/06/2000)

Pike Family Signature Collection Crabgrass Preventer + Lawn Fertilizer 5-10-25 (12/20/2004)

Expert Gardener Crabgrass Preventer Plus Lawn Fertilizer (12/20/2004)

Turf King™ Lawn Fertilizer Plus (01/23/2006)}

Weed + Grass Preventer
(Contains 0.38% Barricade®)

Cut Here to Open
{Scissors Graphic}

**For Selective Preemergent Control of Grass and Broadleaf Weeds in:
Established Turf Grasses (excluding Golf Course Putting Greens) and Lawns
Landscape Ornamentals (Including Established Perennials and Wildflower Plantings)**

20 Pounds Treats up to 5,128 Sq. Ft. an area approximately 51' x 100'
40 Pounds Treats up to 10,256 Sq. Ft. an area approximately 102.5' x 100'
50 Pounds Treats up to 12,820 Sq. Ft. an area approximately 128' x 100'

Contains 0.38% Barricade® Preemergent Herbicide
Feeds up to 4 Months
Crabgrass Preventer Plus Fertilizer with Barricade® 0.38%
Controls Crabgrass
Season-Long Crabgrass Control

Quality Fertilizers from The Lawn Seed Experts
Crabgrass Preventer + Lawn Fertilizer 5-10-25 28-3-4 20-3-4
Controls Grass and Broadleaf Weeds Before they Germinate
Contains an Effective Pre-emergent Herbicide for Control of Crabgrass
and Many Other Nuisance Grasses and Broadleaf Weeds
Also Controls Barnyardgrass, Annual Bluegrass (*Poa annua*), Crabgrass,
Chickweed, Foxtails, Goosegrass, Henbit, Pigweed and Spurge
Feeds Your Desirable Grass up to 4 Months with a Complete Fertilizer
Featuring Pennington's Coated Slow-Release Nitrogen for a longer lasting green lawn

Pike Family Nurseries Signature Collection
Individually Selected by the Pike Family
Over forty-five years of knowing what is best for Southern lawns

Active Ingredient:

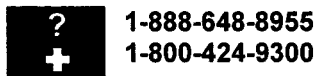
*Prodiamine	0.38%
Other Ingredients	99.62%
*CAS No. 29092-21-2	Total 100.00%

Keep Out of Reach of Children
CAUTION
See back panel for additional precautionary statements.

EPA Reg. No. 59144-30 EPA Est. _____

Net Weight: _____ pounds (___ kg)

GRO TEC, INC.
P.O. Box 290
Madison, GA 30650
1-800-285-SEED
www.penningtonseed.com



Barricade® is a Registered Trademark of Syngenta Crop Protection

N {#} Nitrogen Produces lush, dark green plant growth	P {#} Phosphorous Promotes root growth and development	K {#} Potassium Improves lawn's hardiness and disease resistance
---	--	--

Guaranteed [Fertilizer] Analysis 5-10-25
 {Code}

Total Nitrogen (N) 5.00%
 3.90% Ammoniacal Nitrogen
 1.10% Urea Nitrogen
 Available Phosphate (P₂O₅) 10.00%
 Potassium (K₂O) 25.00%
 Derived from: Urea, Ammonium Phosphate, Muriate of Potash.

Guaranteed [Fertilizer] Analysis 28-3-4 F525

Total Nitrogen (N) 28.00%
 1.17% Ammoniacal Nitrogen
 26.83% Urea Nitrogen
 Available Phosphate (P₂O₅) 3.00%
 Soluble Potash (K₂O) 4.00%
 Total Iron (Fe) 1.00%
 0.25% Water Soluble Iron (Fe)

Derived from: Sulfur Coated Urea, Ammonium Phosphate,
 Muriate of Potash, Iron Sulfate, Iron Oxide
 *Part of the nitrogen in this product has been sulfur coated
 to provide 7.00% coated slow-release nitrogen.

Guaranteed [Fertilizer] Analysis 20-3-4

Total Nitrogen (N) 20.00%
 1.00% Ammoniacal Nitrogen
 19.00% Urea Nitrogen
 Available Phosphate (P₂O₅) 3.00%
 Potassium (K₂O) 4.00%
 Derived from: Urea, Ammonium Phosphate, Muriate of Potash.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Thoroughly wash 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 in Eyes	<ul style="list-style-type: none"> • 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 on Skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If Inhaled	<ul style="list-style-type: none"> • 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. • 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 going for treatment. [You may also contact 1-800-424-9300 for emergency medical treatment information.]

{**Note:** The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}

Environmental Hazards

This product has low solubility in water. At the limit 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 washwaters.

DIRECTIONS FOR USE

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

Storage and Disposal

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

Storage: Store in original container [bag] in a cool, dry (preferably locked) storage area. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep container [bag] closed when product is not being used. **Pesticide Disposal: If empty:** Do not reuse this container. 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.

For household/domestic use product in bags 25 to 50 pounds:

[Storage and Disposal]

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

Storage: Store in original bag in a cool, dry (preferably locked) storage area inaccessible to children and pets. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep bag closed when product is not being used. **Pesticide Disposal: If empty:** Do not reuse this container. 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.

For household/domestic use product in bags up to 25 pounds:

[Storage and Disposal]

Storage: Store in original bag in a cool, dry (preferably locked) storage area inaccessible to children and pets. Store away from feed or food stuffs and separated from other fertilizers and pesticides. Keep bag closed when product is not being used. **Disposal: If empty:** Do not reuse this container. 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.

This product is a selective preemergent herbicide that provides residual control of many grass and broadleaf weeds in

- established turf grasses (excluding golf course putting greens) and lawns
- landscape ornamentals
- established perennials and wildflower plantings.

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

Not for use on plants being grown for sale or other commercial use, commercial seed production or 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 (excluding putting greens) or lawns and grounds.

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. Do not apply aerially. Do not apply to golf course putting greens. 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

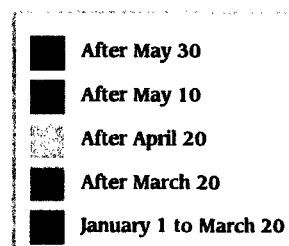
Uniformly apply using suitable, calibrated application equipment.

Established Turf

This product is a selective preemergent herbicide that, when properly applied, controls certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of 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 is obtained when this product is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map for approximate crabgrass seed germination dates.

Crabgrass Seed Germination Dates



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) Do not cut treated sod within 120 days after application. Do not apply to newly set sod until the following year. (4) Application to turf stressed by drought, low fertility or pest damage may result in turf injury. (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (6) 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

Apply this product 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. Base the maximum use rate selection 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 Application Rate of This Product per Calendar Year By Turf Grass Species¹			
Turf Species	Lbs. Product/A	Lbs. Product/100 Sq. Ft.	Lbs. AI/A
Bermudagrass ² , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	395	0.91	1.5
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	263	0.60	1.0
Creeping Red Fescue	197	0.45	0.75
Creeping Bentgrass	171	0.39	0.65

/A = per Acre A.I. = Active Ingredient

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 137 lbs./A (0.32 lbs./100 sq. ft.). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Only suppresses Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 395 lbs./A (0.91 lbs./100 sq. ft.) of this product per calendar year.
- 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.

Weeds Controlled

When used in accordance with this label this product controls the following weeds:

- | | |
|--|---------------------------------|
| Barnyardgrass | Kochia |
| Bluegrass, Annual (<i>Poa annua</i>) | Lambsquarter, Common |
| Carpetweed | Lovegrass |
| Chickweed, Common | Panicum (Texas, Fall, Browntop) |
| Chickweed, Mouseear (from seed) | Pigweed |

Crabgrass (Large, Smooth)
 Crowfootgrass
 Cupgrass, Woolly
 Foxtails, Annual
 Goosegrass¹
 Henbit
 Itchgrass
 Johnsongrass (from seed)
 Junglerice
 Knotweed

Purslane, Common
 Pusley, Florida
 Rescuegrass²
 Shepherd's Purse³
 Signalgrass, Broadleaf
 Speedwell, Persian
 Sprangletop
 Spurge, Prostate
 Witchgrass
 Woodsorrel, Yellow (from seed)

¹In many areas a single application of 171 to 395 lbs./A (0.39 to 0.91 lbs./100 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 171 to 263 lbs./A (0.39 to 0.61 lbs./100 sq. ft.) followed 60 to 90 days later by a second application that does not exceed the maximum annual rate. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates** table.

² Suppression only.

³Apply in later summer, fall or winter prior to germination.

Sequential applications may be made provided the total amount of product applied does not exceed the recommended maximum annual application rate for each turf species. 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 inhibits the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding results.

Rate of This Product			Months Before Overseeding		
Lbs. / A	Lbs. / 100 Sq. Ft.	Al / Acre	North	Transition	South
132	0.30	0.50	4	4	4
171	0.39	0.65	5	4	4
195	0.45	0.75	6	5	5
210	0.48	0.80		6	6
263	0.61	1.00		7	7
300	0.69	1.14			9
342	0.79	1.30			10
395	0.91	1.50			12

Landscape Ornamentals (including Established Perennials and Wildflower Plantings)

This product may be applied for residual weed control in ornamentals.

Use Rates

Apply this product at 171 to 395 lbs./A (0.39 to 0.91 lbs./100 sq. ft.) in fall and/or spring. Use higher application rates for longer control periods. Sequential or single applications may be made provided the total amount of product applied does not exceed the maximum annual application rate of 395 lbs./A.

Application Timing and Information

This product is a preemergent herbicide and will not control emerged weeds. Most effective weed control in ornamentals is obtained when this product is activated by at least 1/2 inch of rainfall or irrigation, or with shallow (1 to 2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application. Best weed control is obtained when this product is applied to soil free of clods, weeds and debris such as leaves. Prior to application of this product, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergent herbicide.

Established Landscape Ornamentals

This product may be applied to established ornamentals as a broadcast, over the top or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate this product into the soil.

Newly-Transplanted Landscape Ornamentals

This product may be applied to newly transplanted ornamentals as a broadcast, over the top or directed application. Delay application to allow soil to settle around new transplants and thoroughly water before applying this product. Apply this product after cuttings form roots and become established. Apply before buds/grafts have taken to avoid any inhibition of the tissue union.

Tolerant Ornamental Species

This product will not harm most ornamental trees, shrubs, vines and flowers. The species listed in Table 1 are tolerant to this product. This product is also approved for application, except in California, to the species in Table 2. Best results are obtained when this product is uniformly applied to the soil surface; avoid applying to ornamental shoots as this may prevent uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress, such as heat, drought or frost damage, some cultivars of listed plants may be sensitive to this product.

Table 1 – Tolerant Ornamental Species (All States)

Scientific Name	Common Name
Abies spp.	Fir species** (Balsam, Fraser, Noble, etc.)
Acer palmatum	Japanese Maple
Acer platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladwynensis	Barberry
Barberis julianae	Wintergreen Barberry
Barberis mentorensis	Mentor Barberry

Scientific Name	Common Name
<i>Barberis thunbergii</i>	Japanese Barberry
<i>Barberis verruculosa</i>	Warty Barberry
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisoides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp.	Citrus species*
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus stolonifera</i>	American Dogwood
<i>Cortaderia sellonana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>Cotoneaster buxifolius</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster microphyllus</i>	Rockspray Cotoneaster
<i>Cretaeagus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delasperma alba</i>	White Trailing Ice Plant
<i>Dodonea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>Euonymus japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>Euonymus kiautschovicks</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia viridissima</i>	Greenstem Forsythia
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gladiolus</i> spp.	Gladiolus species**
<i>Hedera helix</i>	English Ivy
<i>Hibiscus</i>	Rose of Sharon**
<i>Hibiscus Rosa-sinensis</i>	Chinese Hibiscus
<i>Ilex cornuta</i>	Chinese Holly
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex opaca</i>	American Holly
<i>Ilex pernyi</i>	Holly
<i>Ilex vomitoria</i>	Yaupon Holly
<i>Iris</i> spp.	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus conferta</i>	Shore Juniper
<i>Juniperus horizontalis</i>	Creeping Juniper
<i>Juglans</i> spp.	Walnut*

Scientific Name	Common Name
<i>Justicia brandeageana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crepe Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum japonicum</i>	Japanese Privet
<i>Ligustrum lucidum</i>	Glossy Privet (Wax-leaf)
<i>Liriope muscari</i>	Big Blue Lilyturf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Lonicera tatarica</i>	Tatarian Honeysuckle
<i>Magnolia</i> spp.	Magnolia species**
<i>Malephora luteola</i>	Ice Plant
<i>Malus</i> spp.	Crabapple*
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.	Narcissus species**
<i>Nerium</i> spp.	Oleander
<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Picea</i> spp.	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>Pinus canariensis</i>	Canary Island Pine
<i>Pinus elliotii</i>	Slash Pine
<i>Pinus halepensis</i>	Aleppo Pine
<i>Pinus nigra</i>	Austrian Black Pine
<i>Pinus palustris</i>	Longleaf Pine
<i>Pinus radiata</i>	Monterey Pine
<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Pinus taeda</i>	Loblolly Pine
<i>Pinus thunbergiana</i>	Japanese Black Pine
<i>Pinus virginiana</i>	Virginia Pine
<i>Pistachio</i> spp.	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>Pittosporum tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> spp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn Scarlet
<i>Pyracantha fortuneana</i>	Firethorn
<i>Pyracantha koidzumii</i>	Firethorn
<i>Pyrus</i> spp.	Bradford Pear spp.

Scientific Name	Common Name
<i>Quercus rubra</i>	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i> (including Azalea)	"Coral Bells," "Formosa," "Hino-crimson," "PJM," "Roseum Elegans"
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i>	Rosemary*
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	
<i>Sedum album</i>	Stonecrop
<i>Syzygium paniculatum</i>	Japanese Boxcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>Taxus media</i>	Yew
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Tulipa</i> spp.	Tulip species
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>Viburnum odoratissimum</i>	Sweet Virurnum
<i>Viburnum plicatum</i>	Japanese Snowball
<i>Viburnum rigidum</i>	Canary island Viburnum
<i>Viburnum tinus</i>	Laurustinus
<i>Viburnum trilobum</i>	Cranberry Bush
<i>Viburnum wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Vinca
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Vitis</i> spp.	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	Yucca, Adam's Needle

*Do not use on food producing trees, vines or plants.

**Not for use on container grown plants.

Table 2 – Tolerant Ornamental Species/Varieties (All States Except California)

Scientific Name	Common Name
<i>Abelia grandiflora</i>	Abelia: Sherwood
<i>Achillea</i> spp.	Yarrow: King Edward
<i>Agapanthus orientalis</i>	
<i>Akebia quinata</i>	Five-Leaf or Chocolate Vine
<i>Allium cemuum</i>	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i>	Japanese Anemone
<i>Aquilegia</i> spp.	Aquilegia: Red and Gold
<i>Artemisia</i> spp.	Wormwood: Silver Mound, Castle
<i>Aster</i> spp.	Aster: Bonny Blue, Purple Dome

Scientific Name	Common Name
<i>Aster X frikartii</i>	
<i>Athyrium filix-femina</i>	Lady Fern; Fern Lady
<i>Begonia</i> spp.	Fibrous Begonia: Hardy Grandis
<i>Bergenia cordifolia</i>	
<i>Boltonia asteroides</i>	Snowbank
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Buddleia davidii</i>	Butterfly-Brush (Dwarf Blue); Royal Red
<i>Callistemon citrinus</i>	Crimson Bottlebrush
<i>Campanula carpatica</i>	Tussock Bellflower (White Clips)
<i>Campis X tagliabuana</i>	Trumpet Creeper, Trumpet Flower; Madame Galen
<i>Ceratostigma plumbaginoides</i>	
<i>Crhysanthemum nipponicum</i>	
<i>Coreopsis</i> spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
<i>Crocoshmia</i> spp.	Lucifer
<i>Delosperma</i> spp.	Cooperi Pink
<i>Delphinium</i> spp.	Larkspur; Blue Elf
<i>Dianthus deltoides</i>	Dianthus, maiden Pinks "Zing"
<i>Dianthus gratianopolitanus</i>	Cheddar Pink
<i>Echinacea pupurea</i>	Coneflower, Purple; Magnus
<i>Forsythia suspensa</i>	Weeping Forsythia
<i>Gaillardia</i> spp.	Gaillardia, Blanket Flower: "Goblin"
<i>Gentiana dahurica</i>	Gentian
<i>Geranium cinereum</i>	Cranesbill
<i>Gypsophila repens</i>	Baby's Breath
<i>Helianthemum</i> spp.	Sunrose
<i>Hemerocallis</i> spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love
<i>Heucherella</i> spp.	Coral Bell; Bridget Bloom
<i>Hibiscus</i> spp.	Mallow; Disco Belle White
<i>Hosta plantaginea</i>	Hosta, Plantain Lily (Fragrant)
<i>Hosta sieboldiana</i>	Hosta, "Searsucker"
<i>Houttuynia cordata</i> var. <i>variegata</i>	
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong
<i>Iris siberica</i>	Siberian Iris; Cabernet
<i>Juniperus davurica</i>	Parsoni
<i>Lagerstromia indica</i> x <i>fauriel</i>	Crape Myrtle; Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender</i> spp.	Lavender; Munstead
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligstrum sinense</i>	Chinese Privet; Variegata
<i>Lilium</i> spp.	Lily: Jazz
<i>Lirope muscari</i> var. <i>variegata</i>	Lirope, Variegated
<i>Lirope spicata</i>	Lirope, Creeping

21/33

Scientific Name	Common Name
<i>Lobelia cardinalis</i>	Cardinal Flower, Indian Pink
<i>Loropetalum chinense</i>	Burgundy
<i>Lythrum</i> spp.	Loosestrife; Modern Pink
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Oenothera missouriensis</i>	Evening Primrose
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly): Gulf Tide
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Physostegia virginiana</i>	Dragonhead, False; Vivid
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Rhaphiolepis umbellata</i>	Yedda Hawthorne
<i>Rhododendron</i> (including azalea)	"Delaware Valley White," "Flame Creeper," "Girard Crimson," "George L. Tabor," Wakeiebisu, White Gumpo
<i>Rudbeckia</i> spp.	Black-Eyes Susan: Goldstrum
<i>Saxifraga</i> spp.	Saxifrage; Purple Dome
<i>Scabiosa</i> spp.	Pincushion Flower
<i>Sedum cauticola</i>	Stonecrop; Lidakense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea bumalda</i>	Spiraea: Anthony Waterer
<i>Syzyglum paniculatum</i>	Australian Brushcherry
<i>Teucrium</i> spp.	Germander
<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Veronica</i> spp.	Veronica, Speedwell; Sunny Border
<i>Viburnum suspensum</i>	Arrowood Virburmum

*Do not use on food producing trees, vines or plants.

**Not for use on container grown plants.

Spreader Settings

Rotary spreaders are easier to use and reduce streaking that's often caused by drop spreaders. While drop spreaders work well, they require more care to avoid gaps and streaks that appear as light green stripes about a week after fertilizer application. Always apply with a properly calibrated rotary or drop type fertilizer spreader. Never apply by hand. Refer to and follow the spreader manufacturer's calibration and setting instructions.

Broadcast Spreaders		Drop Spreaders	
Pennington 2000B	13	Scotts 1000	8
Pennington 2050SU	13	Scotts 3000	7
Scotts SG3000	8	Red Devil	5
Red Devil	9		

The above spreader settings are approximate. Calibrate your spreader on 100 square feet and adjust to apply at the rate of 0.91 pound of product per 100 square feet.

Broadcast Spreaders		Drop Spreaders	
{Broadcast Spreader Graphic}	For best results, apply in a circular path starting on the outside and working toward the center overlapping slightly to ensure complete coverage.	{Drop Spreader Graphic}	Apply 2 strips along each end. Then apply along length of lawn, overlapping slightly and shutting off the spreader before each turn at edge of border strips.

Warranty & Disclaimer

This product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. To the extent not prohibited by applicable law, Manufacturer is not responsible for the use of this product contrary to the label instructions, under abnormal conditions or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes the risk of any such use. If you decide, after reading this label, that you can't use this product immediately return the unopened package to the point of purchase.

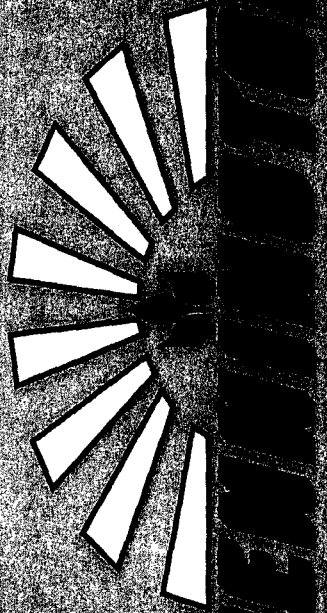
In case of emergency, call 800-424-9300

[TurfKing™ products distributed by Inter-American Products, Cincinnati, OH 45202]

{This product is marketed under the following additional brand names:
 Pennington® Crabgrass Preventer + Lawn Fertilizer 5-10-25 (01/06/2000)
 Pike Family Signature Collection Crabgrass Preventer + Lawn Fertilizer 5-10-25 (12/20/2004)
 Expert Gardener Crabgrass Preventer Plus Lawn Fertilizer (12/20/2004)
 Turf King™ Lawn Fertilizer Plus (01/23/2006)}

CUT HERE TO OPEN

**TREATS UP TO
5,128 Sq. Ft.**
An Area Approximately
51' x 100'



*Contains
Barricade*

Crabgrass Preventer + Lawn Fertilizer

5-10-25

**Controls Grass & Broadleaf
Weeds Before They Germinate**

Contains An Effective Pre-emergent
Herbicide For Control of Crabgrass and
Many Other Nuisance Grasses and
Broadleaf Weeds

Also Controls Barnyardgrass, Annual
Bluegrass (*Poa annua*), Crabgrass,
Chickweed, Foxtails, Goosegrass,
Henbit, Pigweed, And Spurge

ACTIVE INGREDIENT:

Proflumarone 0.08%
OTHER INGREDIENTS 99.92%
CAS No. 29062-71-2 TOTAL 100.00%

Barricade® is a registered trademark of Syngenta Crop Protection
EPA REG. NO. 591144-30 EPA EST. 591144-GA-1

KEEP OUT OF REACH OF CHILDREN
CAUTION

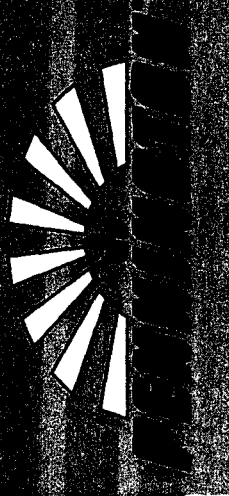
See Back Panel For Additional Precautionary Statements

**Controls
Crabgrass!**

NET WT. 20 LBS. (9.08 kg)

Quality Fertilizers From The Lawn Seed Experts

**Crabgrass
Preventer
+ Lawn Fertilizer**



N 5
NITROGEN

P 10
PHOSPHORUS

K 25
POTASSIUM

Crabgrass Preventer + Lawn Fertilizer 5-10-25

Guaranteed Analysis 5-10-25

Total Nitrogen (N).....	5.00%
3.90% Ammoniacal Nitrogen	
1.10% Urea Nitrogen	
Available Phosphate (P ₂ O ₅).....	10.00%
Soluble Potash (K ₂ O).....	25.00%
Derived from: Urea, Ammonium Phosphate, Muriate of Potash.	

Precautionary Statements Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Thoroughly wash 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 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 on Skin: Take off contaminated clothing. Immediately rinse skin 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 by 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 going for treatment. You may also contact 1-800-424-9300 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 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 washwaters.

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

Not for use on plants being grown for sale or other commercial use, commercial seed production or 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 (excluding putting greens) or lawns and grounds.

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. Do not apply aerially. Do not apply to golf courses or putting greens. 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

CRABGRASS SEED GERMINATION DATES



- 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.

- (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) Do not cut treated sod within 120 days after application. Do not apply to newly set sod until the following year.
- (4) Application to turf stressed by drought, low fertility or pest damage may result in turf injury.
- (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- (6) 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

Apply this product 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. Base the 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 Application Rates of This Product per Calendar Year By Turf Grass Species⁽¹⁾

Turf Species	Lbs. Product/A	Lbs. Product/ 100 sq. ft.	Lbs. A.I./A
Bermudagrass, ² Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	395	0.91	1.5
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	263	0.60	1.0
Creeping Red Fescue	197	0.45	0.75
Creeping Bentgrass	171	0.39	0.65

(1) These are the maximum rates per calendar year by species limitations.

(2) May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 137 lbs./A (0.32 lbs./100 sq. ft.) Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Only suppresses Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

A.I. = Active Ingredient
/A = Per Acre

- Do not apply more than 395 lbs./A (0.91 lbs./100 sq. ft.) of this product per calendar year.
- 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.

32/33

Use and precautions on this label may result in poor weed control, crop injury or illegal residues.

Application Directions

Uniformly apply using suitable, calibrated application equipment.

ESTABLISHED TURF

This product is a selective preemergent herbicide that, when properly applied, controls certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of 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 is obtained when this product is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map for approximate crabgrass seed germination dates.

Spreader Settings

Always apply with a properly calibrated rotary or drop type fertilizer spreader. Never apply by hand. Refer to and follow the spreader manufacturer's calibration and setting instructions.

BROADCAST SPREADERS

Pennington 2000B	13
Pennington 2050SU	13
Scotts SG3000	8
Red Devil	9

DROP SPREADERS

Scotts 1000	8
Scotts 3000	7
Red Devil	5

The above spreader settings are approximate. Calibrate your spreader on 100 square feet and adjust to apply at the rate of 0.91 pound of product per 100 square feet.

BROADCAST SPREADERS

For best results, apply in a circular path starting on the outside and working toward the center overlapping slightly to insure complete coverage.

DROP SPREADERS

Apply 2 strips along each end. Then apply along length of lawn, overlapping slightly and shutting off the spreader before each turn at edge of border strips.

WARRANTY & DISCLAIMER: This product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. To the extent not prohibited by applicable law, Manufacturer is not responsible for the use of this product contrary to the label instructions, under abnormal conditions or under conditions not reasonably foreseeable to the manufacturer and/or seller, and buyer assumes the risk of any such use. If you decide, after reading this label, that you can't use this product, immediately return the unopened package to the point of purchase.
(051002EPA/PR2001-6)(REV051407)

1-800-285-SEED
www.penningtonseed.com

Manufactured by
Gro Tec, Inc.
P.O. Box 290 • Madison, GA 30650

Use and precautions on this label may result in poor weed control, crop injury or illegal residues.

- Do not apply more than 395 lbs./A (0.91 lbs./100 sq. ft.) of this product per calendar year.
- 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.

Weeds Controlled

When used in accordance with this label this product controls the following weeds:

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

(1) In many areas a single application of 171 to 395 lbs./A (0.39 to 0.91 lbs./100 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 171 to 263 lbs./A (0.39 to 0.61 lbs./100 sq. ft.) of this product followed 60 to 90 days later by a second application that does not exceed the maximum annual rate. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates** table.

(2) Suppression only.

(3) Apply in late summer, fall or winter prior to germination.

Sequential applications may be made provided the total amount of product applied does not exceed the recommended maximum annual application rate for each turf species. 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 inhibits 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 of This Product			Months Before Overseeding		
Lbs./A	Lbs./100 sq. ft.	A.I./Acre	North	Transition	South
132	0.30	0.50	4	4	4
171	0.39	0.65	5	4	4
195	0.45	0.75	6	5	5
210	0.48	0.80		6	6
263	0.61	1.00		7	7
300	0.69	1.14			9
342	0.79	1.30			10
395	0.91	1.50			12

Storage And Disposal

Storage: Store in original bag in a cool, dry (preferably locked) storage area inaccessible to children and pets. Store away from feed or foodstuffs and separated from other fertilizers and pesticides. Keep bag closed when product is not being used.
Disposal: If empty: Do not reuse this container. 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.

IN CASE OF EMERGENCY, CALL 800-424-9300