

9198-123

5.8.2008

1/27



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Dawn L. Walters  
The Andersons Lawn  
Fertilizer Division, Inc.  
d/b/a Free Flow Fertilizer  
P.O. Box 119  
Maumee, OH 43537

MAY 8 2008

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Ms. Walters:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 22, 2008 for:

**EPA Registration 9198-123**

**The Andersons Fertilizer w/0.21% Barricade Herbicide**

**EPA Registration 9198-125**

**The Andersons Fertilizer w/0/48% Barricade Herbicide**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-8893.

Sincerely,

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



**The Andersons, Inc.**

P.O. Box 119 • Maumee, Ohio 43537 • 419/893/5050

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April 22, 2008

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

RE: Notification of Minor Label Change

SUBJECT: The Andersons Fertilizer with 0.21% Barricade Herbicide  
EPA Reg. No. 9198-123

Per PR Notice 2007-4 enclosed is EPA Form 8570-1, an application notifying the Agency of a revision to the labeling for the subject registration. This registration has both homeowner and commercial versions of the labeling. Copies of both versions of the revised labeling are enclosed with the additions underlined and marked in blue and deletions marked in red strikeout.

*Homeowner Labeling:*

As consistent with the guidance in PR Notice 2007-4, "Labeling Revisions Required by the Final Rule 'Pesticide Management and Disposal; Standards for Pesticide Containers and Containment'", we have added the following statements to our Storage and Disposal section: "Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available."

The following statements were deleted: "Do not reuse this container. Place in trash or offer for recycling if available."

*Commercial Labeling:*

As consistent with the guidance in PR Notice 2007-4, "Labeling Revisions Required by the Final Rule 'Pesticide Management and Disposal; Standards for Pesticide Containers and Containment'", we have added the following statements to our Storage and Disposal section: "Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available."

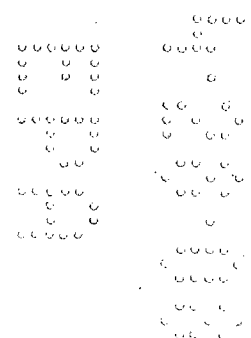
Since this conflicts with the existing statements "Then dispose of empty bag or box in a sanitary landfill or at an incineration facility; or, if allowed by state and local authorities, by burning locally.", we have changed that sentence to read "If not available, then dispose of empty bag or box in a sanitary landfill or at an incineration facility; or, if allowed by state and local authorities, by burning locally."

If there are any questions or comments regarding this notification, please contact me.

Sincerely,  
The Andersons Lawn Fertilizer Division, Inc.

*Dawn L. Walters*

Dawn L. Walters  
Regulatory Administrator  
Phone: 419-897-6790  
Fax: 419-891-2745  
Email: dawn\_walters@andersonsinc.com



Enclosures

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 9198-123	2. EPA Product Manager Kraft	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) The Andersons Fertilizer-with 0.21% Barricade Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) The Andersons Lawn Fertilizer Division, Inc. d/b/a Free Flow Fertilizer PO Box 119 Maumee, OH 43537 <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: <b>NOTIFICATION</b> EPA Reg. No. _____ MAY 0 8 2008 Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Label change per PR Notice 2007-4.

This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, 156.156. 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 EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, 156.156, 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:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 15-2,000 lbs.		5. Location of Label Directions <input type="checkbox"/> _____ <input checked="" type="checkbox"/> On Label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other Pocket		

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Dawn L. Walters		Title Regulatory Administrator		Telephone No. (Include Area Code) 419-897-6790	
<b>Certification</b> 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 <i>Dawn L Walters</i>		3. Title Regulatory Administrator			
4. Typed Name Dawn L. Walters		5. Date 4/22/08			

**NOTIFICATION**

MAY 0 8 2008

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Page 1 of 12  
Commercial version

(Front Panel)

**The Andersons Fertilizer with 0.21% Barricade® Herbicide**

Active Ingredient:		
Prodiamine* .....	0.21%	
Other Ingredients: .....	<u>99.79%</u>	
	Total	100.00%

\*(CAS No. 29091-21-2)

Barricade – trademark of Syngenta Crop Protection

For preemergence control of grass and broadleaf weeds in:

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

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

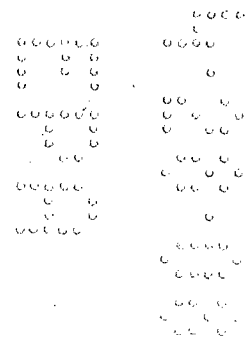
See back panel for additional Precautionary Statements and First Aid

EPA Reg. No. 9198-123

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

Underlined letter is first letter used in run code

Net Weight  
Covers



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## The Andersons Fertilizer with 0.21% Barricade® Herbicide

### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	XXX.XX%
Available Phosphorus (K <sub>2</sub> O) .....	XXX.XX%
Soluble Potash (P <sub>2</sub> O <sub>5</sub> ) .....	XXX.XX%
Plant Nutrients Derived From:	

*For products being sold into states which require metals information:*

Information regarding the contents and levels of metals in this product is available on the internet at: <http://www.regulatory-info-ap.com/>.

*For products containing the micronutrient iron:*

Notice: this product contains the micronutrient iron to help prevent iron deficiency. Iron may stain concrete surfaces and should not be applied on water dampened concrete and should be removed from these areas promptly after application by sweeping or blowing. Do not wash this product from concrete surfaces with water.

### PRECAUTIONARY STATEMENTS

#### CAUTION

#### Hazards to Humans and Domestic Animals

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

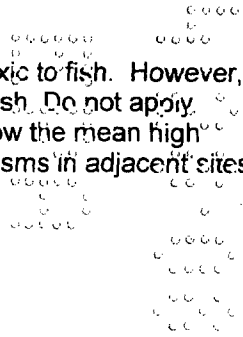
#### FIRST AID

- If in eyes            Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contacts, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
  
- If swallowed        Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
  
- If on skin or clothing    Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
  
- If inhaled            Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

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

#### Environmental Hazards

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.





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

- Application of this product may thin emerged annual bluegrass and newly over seeded grasses.
- Do not apply to over seeded turf within 60 days after seeding or until after the second mowing, whichever is longer.
- Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.
- Do not apply to newly set sod until the following year.
- Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury.
- Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.
- Do not graze or feed livestock forage cut from areas treated with this product.
- Do not apply this product through any type of irrigation system unless otherwise instructed by this label.
- Do not apply aerially.
- Do not apply to golf course putting greens.

**Rates of Application**

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds.

Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.

**Maximum Annual Rates**

This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

**Maximum Annual Rates Table**

<b>Maximum Application Rate of this product per Calendar Year by Turf Grass Species<sup>1</sup></b>			
<b>Turf Species</b>	<b>lbs. A/A</b>	<b>lbs. product /A</b>	<b>lbs. product/ 1000 sq. ft.</b>
Bermudagrass <sup>2</sup> , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	1.5	714	16.4
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	1.0	476	10.9
Creeping Red Fescue	0.75	352	8.1
Creeping Bentgrass	0.65	314	7.2

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

<sup>2</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 238 lb./acre or 5.4 LB./1000 sq. ft. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

Do not apply more than 714 lbs. per acre (16.4 lbs./1,000 sq. ft.) of this product per calendar year. Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates table.

**Weeds Controlled**

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When used at the recommended rates this product will control:

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

<sup>1</sup> In many areas a single application of 7.2 to 16.4 lbs./1,000 sq.ft. (314 to 714 lbs./A) of this product will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 7.2 to 10.9 lbs./1,000 sq. ft. (314 to 476 lbs./A) followed after 60 to 90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates Table** above.

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

<sup>3</sup> Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum application rates specified in the Maximum Annual Rates table. All applications must be made prior to germination of the weed seeds.

**When to Apply After Overseeding Turf**

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

**When to Overseed After Application – All States\***

This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results.

The Andersons Fertilizer with 0.21% Barricade Herbicide Rate			Interval Before Overseeding		
lbs/1000 sq. ft	lbs./A	ai/A	North	Transition	South
5.4	238	0.50	4 mo	4 mo	4 mo
7.2	314	0.65	5 mo	4 mo	4 mo
8.1	352	0.75	6 mo	5 mo	5 mo
8.9	386	0.81	---	6 mo	6 mo
10.9	476	1.00	---	7 mo	7 mo
12.6	548	1.15	---	---	9 mo
14.2	619	1.30	---	---	10 mo
16.4	714	1.50	---	---	12 mo

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



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

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

**How Much and When to Apply**

Amount to Apply		When to Apply	Expected Control	Use Precautions
Lbs./Acre	Lbs/1000			
179 – 310	4.1 – 7.1	6 to 8 weeks before ryegrass overseeding  Second application 4-8 weeks after overseeding date or when perennial ryegrass roots are in the second inch of soil	One application for 70% or greater control of <i>Poa annua</i>  Second application should enhance the residual under normal weather conditions	<ol style="list-style-type: none"> <li>1. Some seed mortality and temporary reduction in root growth of new seedlings may occur</li> <li>2. To reduce the potential for seeding mortality, maintain a moist seedbed with light, frequent irrigation.</li> <li>3. Make no more than 2 applications per year for this use, and do not exceed 400 lbs./A (9.2 lbs/1000) for these two applications for <i>Poa annua</i> control in ryegrass overseeded turf</li> <li>4. Do not make a second application if any injury to the ryegrass is observed after the first application</li> <li>5. Do not make a second application unless the product was first applied before overseeding</li> </ol>

**Recommended Spreader Settings**

These suggested spreader settings are not intended to replace calibration. Please calibrate your spreader before applying product.

- \_\_\_ lbs. treats \_\_\_ ft<sup>2</sup> at the 236 lbs. product/acre – LIGHT RATE ( 7.2 lbs./1,000 sq. ft. )
- \_\_\_ lbs. treats \_\_\_ ft<sup>2</sup> at the 264 lbs. product/acre – LOW RATE (8.1 lbs./1,000 sq. ft. )
- \_\_\_ lbs. treats \_\_\_ ft<sup>2</sup> at the 357 lbs. product/acre – MEDIUM RATE (10.9 lbs./1,000 sq. ft. )
- \_\_\_ lbs. treats \_\_\_ ft<sup>2</sup> at the 536 lbs. product/acre – HIGH RATE (16.4 lbs./1,000 sq. ft. )

Spreader	Ground or PTO Speed	Width of Coverage	Spreader Settings			
			Light Rate	Low Rate	Medium Rate	High Rate
aa	X mph	XX ft/	X	X	X	X
bb	X mph	XX ft	X	X	X	X
cc	X mph	XX ft	X	X	X	X

**LANDSCAPE ORNAMENTALS**

This product may be applied for residual preemergence weed control in ornamentals (including established perennial and wildflower plantings).

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**Use Rates**

Apply this product at 314 to 714 lbs./A (7.2 to 16.4 lbs./1,000 sq. ft) in fall and/or spring. Use higher rate of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 714 lbs./A (16.4 lbs./1,000 sq. ft.).

**Application Timing and Information**

This product is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1 to 2 inch) mechanical incorporation, 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 and mulch. Prior to application of this product, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

**Established Landscape Ornamentals**

This product may be applied to established ornamentals as a broadcast, over-the-top, or directed application. Overhead irrigation or rainfall soon after application will wash granules off plant foliage and activate the product in the soil.

**Newly-Transplanted Landscape Ornamentals**

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

**Tolerant Ornamental Species**

This product will not harm trees, shrubs, vines, and flowers listed below. The species listed below in Table 1 are tolerant to this product. This product is also approved for application, except in California, to the species in Table 2, below. Best results will be obtained when this product is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of the ornamental species listed below.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to this product. Avoid application to plants that are under stress.

**Table 1 - Tolerant Ornamental Species - All States**

<b>Scientific name</b>	<b>Common name</b>
<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>Acer platanoides</i>	Norway Maple
<i>Actinidia chinensis</i>	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Berberis gladywensis</i>	Barberry
<i>Berberis julianae</i>	Wintergreen Barberry
<i>Berberis mentorensis</i>	Mentor Barberry
<i>Berberis thunbergii</i>	Japanese Barberry
<i>Berberis verruculosa</i>	Warty Barberry

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*Buxus microphylla*  
*Callistemon viminalis*  
*Calluna vulgaris*  
*Carpobrotus edulis*  
*Cassia artemisioides*  
*Ceanothus rigidus*  
*Chamaecyparis pisifera*  
*Cleyera japonica*  
*Citrus* spp.  
*Cornus florida*  
*Cornus stolonifera*  
*Cortaderia selloana*  
*Cotoneaster apiculatus*  
*Cotoneaster buxifolius*  
*Cotoneaster dammeri*  
*Cotoneaster microphyllus*  
*Crataegus* spp.  
*Cupressus sempervirens*  
*Delosperma alba*  
*Dodonaea viscosa*  
*Elaeagnus pungens*  
*Euonymus fortunei*  
*Euonymus japonica*  
*Euonymus kiautschovicks*  
*Fatsia japonica*  
*Forsythia intermedia*  
*Forsythia viridissima*  
*Gardenia jasminoides*  
*Gladiolus* spp.  
*Hedera helix*  
*Hibiscus*  
*Hibiscus Rosa-sinensis*  
*Ilex cornuta*  
*Ilex crenata*  
*Ilex opaca*  
*Ilex pernyi*  
*Ilex vomitoria*  
*Iris* spp.  
*Jasminium nudiflorum*  
*Juniperus chinensis*  
*Juniperus conferta*  
*Juniperus horizontalis*  
*Juglans* spp.  
*Justicia brandegeana*  
*Lagerstromia indica*  
*Ligustrum amurense*  
*Ligustrum japonicum*  
*Ligustrum lucidum*  
*Liriodendron muscari*  
*Lonicera japonica*  
*Lonicera tatarica*  
*Magnolia* spp.  
*Malephora luteola*

Japanese Boxwood  
 Weeping Bottlebrush  
 Scotch Heather  
 Hottentot Fig (Ice Plant)  
 Feathery Cassia  
 Wild Lilac  
 False Cypress  
 Cleyera  
 Citrus species\*  
 Flowering Dogwood  
 American Dogwood  
 Pampas Grass  
 Cranberry Cotoneaster  
 Cotoneaster  
 Bearberry Cotoneaster  
 Rockspray Cotoneaster  
 Hawthorne  
 Italian Cypress  
 White Trailing Ice Plant  
 Hop Bush  
 Silverberry  
 Wintercreeper  
 Japanese Spindle Tree (Evergreen Euonymus)  
 Spreading Euonymus  
 Japanese Aralia  
 Border Forsythia  
 Greenstem Forsythia  
 Gardenia, Cape-Jasmine  
 Gladiolus species\*\*  
 English Ivy  
 Rose of Sharon\*\*  
 Chinese Hibiscus  
 Chinese Holly  
 Japanese Holly  
 American Holly  
 Holly  
 Yaupon Holly  
 Iris species\*\*  
 Winter Jasmine  
 Chinese Juniper  
 Shore Juniper  
 Creeping Juniper  
 Walnut\*  
 Shrimp Plant  
 Crape Myrtle  
 Amur Privet  
 Japanese Privet  
 Glossy Privet (Wax-Leaf)  
 Big Blue Lillyturf  
 Japanese Honeysuckle  
 Tatarian Honeysuckle  
 Magnolia species\*\*  
 Ice Plant

(Back Panel)

*Malus* spp.  
*Nandina domestica*  
*Narcissus* spp.  
*Nerium* spp.  
*Olea europaea*  
*Ophiopogon japonicus*  
*Osteospermum fruticosum*  
*Oxydendrum arboreum*  
*Persea americana*  
*Photinia fraseri*  
*Picea* spp.  
*Pieris japonica*  
*Pinus brutia*  
*Pinus canariensis*  
*Pinus elliotii*  
*Pinus halepensis*  
*Pinus nigra*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus strobus*  
*Pinus sylvestris*  
*Pinus taeda*  
*Pinus thunbergiana*  
*Pinus virginiana*  
*Pistacia* spp.  
*Pittosporum rhombifolium*  
*Pittosporum tobira*  
*Podocarpus macrophyllus*  
*Prunus laurocerasus*  
*Prunus* spp.  
  
*Pseudotsuga menziesii*  
*Pyracantha coccinea*  
*Pyracantha fortuneana*  
*Pyracantha koidzumii*  
*Pyrus* spp.  
*Quercus rubra*  
*Rhaphiolepis indica*  
*Rhododendron*  
 (including *Azalea*)  
  
*Rosa banksiae*  
*Rosmarinus officinalis*  
*Rumohra adiantiformis*  
*Santolina virens*  
*Sedum album*  
*Syzygium paniculatum*  
*Taxus cuspidata*  
*Taxus media*  
*Thuja occidentalis*  
*Trachelospermum asiaticum*

Crabapple\*  
 Heavenly Bamboo  
*Narcissus* species\*\*  
 Oleander  
 Olive\*  
 Mondo Grass  
 Trailing African Daisy  
 Sourwood  
 Avocado\*  
 Frasier's Photinia (Redtip)  
 Spruce species\*\* (Colorado Blue, Norway, etc.)  
 Lily-of-the-Valley Shrub  
 Calabrian Pine  
 Canary Island Pine  
 Slash Pine  
 Aleppo Pine  
 Austrian Black Pine  
 Longleaf Pine  
 Monterey Pine  
 Eastern White Pine  
 Scotch Pine  
 Loblolly Pine  
 Japanese Black Pine  
 Virginia Pine  
 Pistachio\*  
 Queensland Pittosporum  
 Japanese Pittosporum  
 Japanese Yew  
 English Laurel  
 Almond, Apricot, Nectarine,  
 Peach, Plum and Prune\*  
 Douglas Fir\*\*  
 Firethorn Scarlet  
 Firethorn  
 Firethorn  
 Bradford Pear spp.  
 Oak species  
 Indian Hawthorne  
 'Coral Bells'  
 'Formosa'  
 'Hino-crimson'  
 'PJM'  
 'Roseum Elegans'  
 Lady Bank's Rose  
 Rosemary\*  
 Leatherleaf Fern  
  
 Stonecrop  
 Japanese Boxcherry  
 Japanese Yew  
 Yew  
 American Arborvitae  
 Star Jasmine

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<i>Tsuga canadensis</i>	Canada Hemlock
<i>Tulipa</i> spp.	Tulip species
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>Viburnum odoratissimum</i>	Sweet Viburnum
<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 CA**

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 cernuum</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
<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-Bush (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>Chrysanthemum nipponicum</i>	
<i>Coreopsis</i> spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
<i>Crocsmia</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>Gaura</i> spp.	

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*Gentiana dahurica*  
*Geranium cinereum*  
*Gypsophila repens*  
*Helianthemum* spp.  
*Hemerocallis* spp.  
*Heucherella* spp.  
*Hibiscus* spp.  
*Hosta plantaginea*  
*Hosta sieboldiana*  
*Houttuynia cordata* var. *variegata*  
*Hydrangea macrophylla*  
*Inula ensifolia*  
*Iris ensata*  
*Iris siberica*  
*Juniperus davurica*  
*Lagerstromia indica* x *fauriei*  
*Lantana montevidensis*  
*Lavender* spp.  
*Leontopodium alpinum*  
*Ligustrum sinense*  
*Lilium* spp.  
*Lirope muscari* var. *variegata*  
*Lirope spicata*  
*Lobelia cardinalis*  
*Loropetalum chinense*  
*Lythrum* spp.  
*Miscanthus sinensis*  
*Oenothera missouriensis*  
*Osmanthus heterophyllus*  
*Paeonia suffruticosa*  
*Pennisetum setaceum*  
*Perovskia atriplicifolia*  
*Physostegia virginiana*  
*Quercus shumardii*  
*Rhaphiolepis umbellata*  
*Rhododendron*  
 (including azalea)

*Rudbeckia* spp.  
*Saxifraga* spp.  
*Scabiosa* spp.  
*Sedum caudicicola*  
*Sedum dasyphyllum*  
*Sedum spurium*  
*Spiraea bumalda*  
*Syzyglum paniculatum*  
*Teucrium* spp.  
*Thalictrum dipterocarpum*  
*Veronica* spp.  
*Viburnum suspensum*

Gentian  
 Cranesbill  
 Baby's Breath  
 Sunrose  
 Daylily: Aztec Gold, Stella De Oro, Tender Love  
 Coral Bell; Bridget Bloom  
 Mallow; Disco Belle White  
 Hosta, Plantain Lily (Fragrant)  
 Hosta, 'Searsucker'

Bigleaf Hydrangea

Sword-Leaved Iris; Jodlesong  
 Siberian Iris; Cabernet  
 Parsoni  
 Crape Myrtle; Tuscarora  
 Weeping Lantana  
 Lavender; Munstead  
 Edelweiss  
 Chinese Privet; Variegata  
 Lily: Jazz  
 Lirope, Variegated  
 Lirope, Creeping  
 Cardinal Flower, Indian Pink  
 Burgundy  
 Loosestrife; Modern Pink  
 Yaku Jima, Silberfeder  
 Evening Primrose  
 Osmanthus (False Holly): Gulf Tide  
 Tree Peony  
 Fountain Grass (Dwarf)

Dragonhead, False; Vivid  
 Oak, Shumard's Red  
 Yedda Hawthorne  
 'Delaware Valley White'  
 'Flame Creeper'  
 'Girard Crimson'  
 'George L. Tabor'  
 Wakeiebisu  
 White Gumpo  
 Black-Eyed Susan: Goldstrum  
 Saxifrage; Purple Dome  
 Pincushion Flower  
 Stonecrop; Lidakense  
 Stonecrop  
 Stonecrop; Dragon's Blood  
 Spirea: Anthony Waterer  
 Australian Brushcherry  
 Germander  
 Meadow Rue  
 Veronica, Speedwell; Sunny Border  
 Arrowood Viburnum

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**STORAGE AND DISPOSAL**

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

**Storage:** Store in original container away from fertilizer, feed, or food stuffs and separated from other pesticides.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty container into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If not available, then dispose of empty bag or box in a sanitary landfill or at an incineration facility; or, if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

**IMPORTANT: READ BEFORE USE:**

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

**WARRANTY DISCLAIMER and LIMITATION of LIABILITY:**

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

**LEGAL RIGHTS:**

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION. (RVnot042108)

Manufactured by:  
The Andersons Lawn Fertilizer Division, Inc.  
d/b/a Free Flow Fertilizer  
PO Box 119  
Maumee, OH 43537

Date Printed	4/21/08
Date Approved	4/29/04
Supersedes	11/5/97
Label changes	Notification – container
Filename	9198-123
Label code	RVnot042108

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(Front Panel)

# The Andersons Fertilizer with 0.21% Barricade® Herbicide

Active Ingredient:		
Prodiamine* .....	0.21%	
Other Ingredients: .....	99.79%	
	Total	100.00%

\*(CAS No. 29091-21-2)

Barricade – trademark of Syngenta Crop Protection

For preemergence control of grass and broadleaf weeds in:

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

*Optional:*

Prevents crabgrass, foxtail, barnyardgrass, goosegrass and other grassy weeds while feeding your lawn with a premium blend of fertilizer that provides quick and extended greening  
Contains Poly-S® controlled release nitrogen for extended greening  
Season long control of crabgrass & grassy weeds

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See back panel for additional Precautionary Statements and First Aid

EPA Reg. No. 9198-123

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

Underlined letter is first letter used in run code

Net Weight

Covers



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## The Andersons Fertilizer with 0.21% Barricade® Herbicide

### GUARANTEED ANALYSIS

Total Nitrogen (N) .....	XXX.XX%
Available Phosphorus (K <sub>2</sub> O) .....	XXX.XX%
Soluble Potash (P <sub>2</sub> O <sub>5</sub> ) .....	XXX.XX%
Plant Nutrients Derived From:	

*For products being sold into states which require metals information:*  
 Information regarding the contents and levels of metals in this product is available on the internet at:  
<http://www.regulatory-info-ap.com/>.

*For products containing the micronutrient iron:*  
 Notice: this product contains the micronutrient iron to help prevent iron deficiency. Iron may stain concrete surfaces and should not be applied on water dampened concrete and should be removed from these areas promptly after application by sweeping or blowing. Do not wash this product from concrete surfaces with water.

### PRECAUTIONARY STATEMENTS

#### CAUTION

#### Hazards to Humans and Domestic Animals

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### FIRST AID

- If in eyes            Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contacts, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
  
- If swallowed        Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
  
- If on skin or clothing    Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
  
- If inhaled            Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

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

#### Environmental Hazards

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

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## DIRECTIONS FOR USE

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

*For final printed labels which do include landscape ornamental uses:*

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or 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.

*For final printed labels which do not include landscape ornamental uses:*

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

## GENERAL INFORMATION

The Andersons Fertilizer with 0.21% Barricade Herbicide is a preemergence herbicide that provides residual control of many grass and broadleaf weeds in turfgrasses and landscapes. This product controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application.

## APPLICATION DIRECTIONS

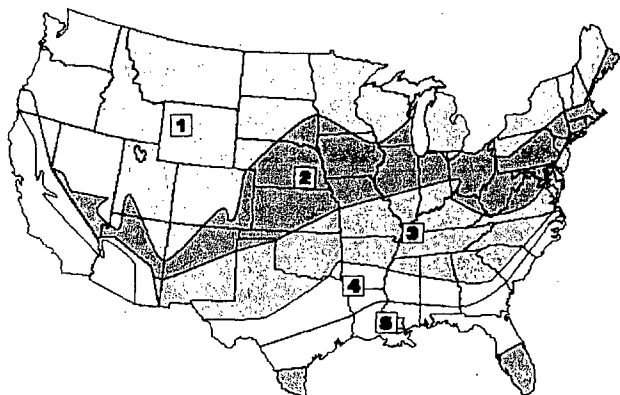
Apply uniformly through suitable, calibrated application equipment.

## ESTABLISHED TURF

This product is a preemergence herbicide that, when properly applied as directed, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of this product that may be applied per year is given for each turf grass species in the **Maximum Annual Rates** section of this label.

Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

### CRABGRASS GERMINATION DATES



Approx. Date

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

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**Use Restrictions and Precautions**

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

- Application of this product may thin emerged annual bluegrass and newly over seeded grasses.
- Do not apply to over seeded turf within 60 days after seeding or until after the second mowing, whichever is longer.
- Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.
- Do not apply to newly set sod until the following year.
- Application of this product to turf stressed by drought, low fertility, or pest damage may result in turf injury.
- Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
- Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.
- Do not graze or feed livestock forage cut from areas treated with this product.
- Do not apply this product through any type of irrigation system unless otherwise instructed by this label. Do not apply aerially.
- Do not apply to golf course putting greens.

**Rates of Application**

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds. Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by this product is related to the rate applied.

**Maximum Annual Rates**

This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

**Maximum Annual Rates Table**

<b>Maximum Application Rate of this product per Calendar Year by Turf Grass Species<sup>1</sup></b>	
<b>Turf Species</b>	<b>lbs. product/ 1000 sq. ft.</b>
Bermudagrass <sup>2</sup> , Bahiagrass, Centipedegrass, Seashore Paspalum, St. Augustinegrass, Tall Fescue (including turf-type), Zoysia	12.3
Buffalograss, Kentucky Bluegrass, Perennial Ryegrass	8.2
Creeping Red Fescue	6.1
Creeping Bentgrass	5.4

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

<sup>2</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 4.2 LB./1000 sq. ft. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

Do not apply more than 12.3 lbs./1,000 sq. ft. of this product per calendar year. Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates table.

**Weeds Controlled**

When used at the recommended rates this product will control:

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

<sup>1</sup> In many areas a single application of 5.4 to 12.3 lbs./1,000 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 5.4 to 8.2 lbs./1,000 sq. ft. followed after 60 to 90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rates Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rates Table** above.

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

<sup>3</sup> Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum application rates specified in the **Maximum Annual Rates table**. All applications must be made prior to germination of the weed seeds.

**Overseeding/Reseeding**

This product will inhibit the germination of turf species if overseed/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 (lb/1,000 sq. ft.)	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
5.4	4	6	3	4
6.1	8	12	6	8
8.2	12	18	9	12

**SPREADER SETTINGS**

*{available at final printing – will vary among subregistrants and market availability of equipment}*

**Broadcast Spreader Settings**

For one pass application: For best results, apply in a circular path starting on the outside and working toward the center. A little overlap of wheels will ensure complete coverage.

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Spreader	5.4 lb. / 1000sq. ft.	8.2 lb. / 1000 sq. ft.	8.2 lb. / 1000 sq. ft.	12.3 lb. / 1000 sq. ft.
aa	X	X	X	X
bb	X	X	X	X
cc	X	X	X	X

**Drop Spreader Settings**

For one pass application: First apply 2 border strips along the edge of each end of the lawn. Then apply products along the length of the lawn, overlapping wheels slightly and shutting off the spreader before turning as you reach the edge of the border strips.

Spreader	5.4 lb. / 1000sq. ft.	8.2 lb. / 1000 sq. ft.	8.2 lb. / 1000 sq. ft.	12.3 lb. / 1000 sq. ft.
aa	X	X	X	X
bb	X	X	X	X
cc	X	X	X	X

It is important to follow directions as indicated on this quality lawn care product as over-application may cause injury to the lawn. Measure the size of the area to be treated and do not over or under apply. Spreader settings are approximate. Differences may occur due to condition of spreader, speed at which applied, and roughness of area treated. Calibrate spreader prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing uniformly. Close spreader when filling, stopping or turning. Do not apply by hand or with a hand held spreader.

**LANDSCAPE ORNAMENTALS**

This product may be applied for residual preemergence weed control in ornamentals (including established perennial and wildflower plantings).

**Use Rates**

Apply this product at 5.4 to 12.3 lbs./1,000 sq. ft in fall and/or spring. Use higher rate of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 12.3 lbs./1,000 sq. ft..

**Application Timing and Information**

This product is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1 to 2 inch) mechanical incorporation, 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 and mulch. Prior to application of this product, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

**Established Landscape Ornamentals**

This product may be applied to established ornamentals as a broadcast, over-the-top, or directed application. Overhead irrigation or rainfall soon after application will wash granules off plant foliage and activate the product in the soil.

**Newly-Transplanted Landscape Ornamentals**

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

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**Tolerant Ornamental Species**

This product will not harm trees, shrubs, vines, and flowers listed below. The species listed below in Table 1 are tolerant to this product. This product is also approved for application, except in California, to the species in Table 2, below. Best results will be obtained when this product is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of the ornamental species listed below.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to this product. Avoid application to plants that are under stress.

**Table 1 - Tolerant Ornamental Species - All States**

<b>Scientific name</b>	<b>Common name</b>
<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>Acer platanoides</i>	Norway Maple
<i>Actinidia chinensis</i>	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Berberis gladwynensis</i>	Barberry
<i>Berberis julianae</i>	Wintergreen Barberry
<i>Berberis mentorensis</i>	Mentor Barberry
<i>Berberis thunbergii</i>	Japanese Barberry
<i>Berberis 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 artemisioides</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 selloana</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>Crataegus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delosperma alba</i>	White Trailing Ice Plant
<i>Dodonaea 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

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*Forsythia viridissima*  
*Gardenia jasminoides*  
*Gladiolus* spp.  
*Hedera helix*  
*Hibiscus*  
*Hibiscus Rosa-sinensis*  
*Ilex cornuta*  
*Ilex crenata*  
*Ilex opaca*  
*Ilex pernyi*  
*Ilex vomitoria*  
*Iris* spp.  
*Jasminium nudiflorum*  
*Juniperus chinensis*  
*Juniperus conferta*  
*Juniperus horizontalis*  
*Juglans* spp.  
*Justicia brandegeana*  
*Lagerstromia indica*  
*Ligustrum amurense*  
*Ligustrum japonicum*  
*Ligustrum lucidum*  
*Liriope muscari*  
*Lonicera japonica*  
*Lonicera tatarica*  
*Magnolia* spp.  
*Malephora luteola*  
*Malus* spp.  
*Nandina domestica*  
*Narcissus* spp.  
*Nerium* spp.  
*Olea europaea*  
*Ophiopogon japonicus*  
*Osteospermum fruticosum*  
*Oxydendrum arboreum*  
*Persea americana*  
*Photinia fraseri*  
*Picea* spp.  
*Pieris japonica*  
*Pinus brutia*  
*Pinus canariensis*  
*Pinus elliotii*  
*Pinus halepensis*  
*Pinus nigra*  
*Pinus palustris*  
*Pinus radiata*  
*Pinus strobus*  
*Pinus sylvestris*  
*Pinus taeda*  
*Pinus thunbergiana*  
*Pinus virginiana*  
*Pistacia* spp.  
*Pittosporum rhombifolium*

Greenstem Forsythia  
 Gardenia, Cape-Jasmine  
 Gladiolus species\*\*  
 English Ivy  
 Rose of Sharon\*\*  
 Chinese Hibiscus  
 Chinese Holly  
 Japanese Holly  
 American Holly  
 Holly  
 Yaupon Holly  
 Iris species\*\*  
 Winter Jasmine  
 Chinese Juniper  
 Shore Juniper  
 Creeping Juniper  
 Walnut\*  
 Shrimp Plant  
 Crape Myrtle  
 Amur Privet  
 Japanese Privet  
 Glossy Privet (Wax-Leaf)  
 Big Blue Lillyturf  
 Japanese Honeysuckle  
 Tatarian Honeysuckle  
 Magnolia species\*\*  
 Ice Plant  
 Crabapple\*  
 Heavenly Bamboo  
 Narcissus species\*\*  
 Oleander  
 Olive\*  
 Mondo Grass  
 Trailing African Daisy  
 Sourwood  
 Avocado\*  
 Frasier's Photinia (Redtip)  
 Spruce species\*\* (Colorado Blue, Norway, etc.)  
 Lily-of-the-Valley Shrub  
 Calabrian Pine  
 Canary Island Pine  
 Slash Pine  
 Aleppo Pine  
 Austrian Black Pine  
 Longleaf Pine  
 Monterey Pine  
 Eastern White Pine  
 Scotch Pine  
 Loblolly Pine  
 Japanese Black Pine  
 Virginia Pine  
 Pistachio\*  
 Queensland Pittosporum

(Back Panel)

*Pittosporum tobira*  
*Podocarpus macrophyllus*  
*Prunus laurocerasus*  
*Prunus* spp.

*Pseudotsuga menziesii*  
*Pyracantha coccinea*  
*Pyracantha fortuneana*  
*Pyracantha koidzumii*  
*Pyrus* spp.  
*Quercus rubra*  
*Rhaphiolepis indica*  
*Rhododendron*  
(including Azalea)

*Rosa banksiae*  
*Rosmarinus officinalis*  
*Rumohra adiantiformis*  
*Santolina virens*  
*Sedum album*  
*Syzygium paniculatum*  
*Taxus cuspidata*  
*Taxus media*  
*Thuja occidentalis*  
*Trachelospermum asiaticum*  
*Tsuga canadensis*  
*Tulipa* spp.  
*Viburnum japonicum*  
*Viburnum odoratissimum*  
*Viburnum plicatum*  
*Viburnum rigidum*  
*Viburnum tinus*  
*Viburnum trilobum*  
*Viburnum wrightii*  
*Vinca major*  
*Vinca minor*  
*Vitis* spp.  
*Weigela florida*  
*Yucca aloifolia*  
*Yucca filamentosa*

Japanese Pittosporum  
Japanese Yew  
English Laurel  
Almond, Apricot, Nectarine,  
Peach, Plum and Prune\*  
Douglas Fir\*\*  
Firethorn Scarlet  
Firethorn  
Firethorn  
Bradford Pear spp.  
Oak species  
Indian Hawthorne  
'Coral Bells'  
'Formosa'  
'Hino-crimson'  
'PJM'  
'Roseum Elegans'  
Lady Bank's Rose  
Rosemary\*  
Leatherleaf Fern

Stonecrop  
Japanese Boxcherry  
Japanese Yew  
Yew  
American Arborvitae  
Star Jasmine  
Canada Hemlock  
Tulip species  
Japanese Viburnum  
Sweet Viburnum  
Japanese Snowball  
Canary Island Viburnum  
Laurustinus  
Cranberry Bush  
Leatherleaf Viburnum  
Vinca  
Dwarf Periwinkle  
Grape\*  
Old Fashioned Weigela  
Spanish Bayonet  
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 CA**

<b>Scientific name</b>	<b>Common name</b>
<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 cernuum</i>	Lady's Leek, Nodding Onion



(Back Panel)

*Anemone hybrida*  
*Aquilegia* spp.  
*Artemisia* spp.  
*Aster* spp.  
*Aster X frikartii*  
*Athyrium filix-femina*  
*Begonia* spp.  
*Bergenia cordifolia*  
*Boltonia asteroides*  
*Bougainvillea* spp.  
*Buddleia davidii*  
*Callistemon citrinus*  
*Campanula carpatica*  
*Campis X tagliabuana*  
*Ceratostigma plumbaginoides*  
*Chrysanthemum nipponicum*  
*Coreopsis* spp.  
  
*Crocsmia* spp.  
*Delosperma* spp.  
*Delphinium* spp.  
*Dianthus deltoides*  
*Dianthus gratianopolitanus*  
*Echinacea pupurea*  
*Forsythia suspensa*  
*Gaillardia* spp.  
*Gaura* spp.  
*Gentiana dahurica*  
*Geranium cinereum*  
*Gypsophila repens*  
*Helianthemum* spp.  
*Hemerocallis* spp.  
*Heucherella* spp.  
*Hibiscus* spp.  
*Hosta plantaginea*  
*Hosta sieboldiana*  
*Houttuynia cordata var. variegata*  
*Hydrangea macrophylla*  
*Inula ensifolia*  
*Iris ensata*  
*Iris siberica*  
*Juniperus davurica*  
*Lagerstromia indica x fauriei*  
*Lantana montevidensis*  
*Lavender* spp.  
*Leontopodium alpinum*  
*Ligustrum sinense*  
*Lilium* spp.  
*Lirope muscari var. variegata*  
*Lirope spicata*  
*Lobelia cardinalis*  
*Loropetalum chinense*  
*Lythrum* spp.

Japanese Anemone  
 Aquilegia: Red and Gold  
 Wormwood; Silver Mound, Castle  
 Aster: Bonny Blue, Purple Dome  
  
 Lady Fern; Fern Lady  
 Fibrous Begonia: Hardy Grandis  
  
 Snowbank  
 Bougainvillea  
 Butterfly-Bush (Dwarf Blue); Royal Red  
 Crimson Bottlebrush  
 Tussock Bellflower; (White Clips)  
 Trumpet Creeper, Trumpet Flower; Madame Galen  
  
 Coreopsis (Calliopsis): Early Sunrise,  
 Moonbeam  
 Lucifer  
 Cooperi Pink  
 Larkspur; Blue Elf  
 Dianthus, Maiden Pinks 'Zing'  
 Cheddar Pink  
 Coneflower, Purple; Magnus  
 Weeping Forsythia  
 Gaillardia, Blanket Flower: 'Goblin'  
  
 Gentian  
 Cranesbill  
 Baby's Breath  
 Sunrose  
 Daylily: Aztec Gold, Stella De Oro, Tender Love  
 Coral Bell; Bridget Bloom  
 Mallow; Disco Belle White  
 Hosta, Plantain Lily (Fragrant)  
 Hosta, 'Searsucker'  
  
 Bigleaf Hydrangea  
  
 Sword-Leaved Iris; Jodlesong  
 Siberian Iris; Cabernet  
 Parsoni  
 Crape Myrtle; Tuscarora  
 Weeping Lantana  
 Lavender; Munstead  
 Edelweiss  
 Chinese Privet; Variegata  
 Lily: Jazz  
 Lirope, Variegated  
 Lirope, Creeping  
 Cardinal Flower, Indian Pink  
 Burgundy  
 Loosestrife; Modern Pink

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(Back Panel)

- |                                 |                                    |
|---------------------------------|------------------------------------|
| <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>             | 'Delaware Valley White'            |
| (including azalea)              | 'Flame Creeper'                    |
|                                 | 'Girard Crimson'                   |
|                                 | 'George L. Tabor'                  |
|                                 | Wakeiebisu                         |
|                                 | White Gumpo                        |
| <i>Rudbeckia</i> spp.           | Black-Eyed Susan: Goldstrum        |
| <i>Saxifraga</i> spp.           | Saxifrage; Purple Dome             |
| <i>Scabiosa</i> spp.            | 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</i> spp.            | Germander                          |
| <i>Thalictrum dipterocarpum</i> | Meadow Rue                         |
| <i>Veronica</i> spp.            | Veronica, Speedwell; Sunny Border  |
| <i>Viburnum suspensum</i>       | Arrowood Viburnum                  |

**STORAGE AND DISPOSAL**

*For homeowner products:*

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

**Storage:**

Store in original container away from fertilizer, feed, or food stuffs and separated from other pesticides.

**Disposal:**

If empty:

~~Do not reuse this container. Place in trash or offer for recycling if available.~~  
Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

If partly filled:

Call your local solid waste agency or 1-800CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

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(Back Panel)

**IMPORTANT: READ BEFORE USE:**

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

**WARRANTY DISCLAIMER and LIMITATION of LIABILITY:**

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

**LEGAL RIGHTS:**

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION. (RVnot042108)

**Manufactured by:**

The Andersons Lawn Fertilizer Division, Inc.  
d/b/a Free Flow Fertilizer  
PO Box 119  
Maumee, OH 43537

*Optional fertilizer marketing claims:*

XX% Nitrogen – gives lawns their green color. Fertilizers with controlled-release nitrogen formulas will feed and green your lawn over a longer period of time.

XX% Phosphate – this nutrient is important for normal root development. Good roots are vital for grass to take up water and nutrients

XX% Potassium – Also called potash, helps lawns better tolerate extreme weather conditions. Contributes to the overall vigor of grass.

Date Printed	4/21/08
Date Approved	4/29/04
Supersedes	11/5/97
Label changes	Notification – container
Filename	9198-123
Label code	RVnot042108