



5/7/2010

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

10/23

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Debbie Ziehr  
Regulatory Administrator  
The Andersons Lawn Fertilizer Division, Inc.  
d/b/a Free Flow Fertilizer  
P.O. Box 119  
Maumee, OH 43537

MAY 7 2010

**SUBJECT: Application for Pesticide Notification per PR Notice 98-10: Addition of Optional Marketing Statement**  
**THE ANDERSONS 0.25% Granular DITHIOPYR HERBICIDE**  
**EPA Reg. No. 9198-213**  
**Application Dated November 17, 2009**

Dear Ms. Ziehr:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of this PRN. The label that was submitted with the above application is acceptable, date-stamped "Notification", and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

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

2023

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

Registration  
 Amendment  
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 9198-213	2. EPA Product Manager Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) THE ANDERSONS 0.25% Granular DITHIOPYR HERBICIDE	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) The Andersons Lawn Fert. Div. Inc. d/b/a Free Flow Fert. 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: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	<b>NOTIFICATION</b>  <b>MAY - 7 2010</b>
<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 98-10: See cover letter for details

This notification is consistent with the guidance of PR Notice 98-10 and the requirements of EPA's regulations at 40 CFR 153.10 and 40 CFR 152.46 and not 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 this notification is not consistent with the guidance of PR Notice 98-10 and the requirements of 40 CFR 156.10 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:				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	Metal <input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 25 - 1,000 lbs.		5. Location of Label Directions <input checked="" type="checkbox"/> On label <input type="checkbox"/> On label accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input 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 Debbie Ziehr	Title Regulatory Administrator	Telephone No. (Includes Area Code) 419-891-6671

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)

11/19/2009

2. Signature <i>Debbie Ziehr</i>	3. Title Regulatory Administrator
4. Typed Name Debbie Ziehr	5. Date 11/17/09



**The Andersons, Inc.**

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

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November 17, 2009

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 Changes

SUBJECT: **The Andersons 0.25% Granular Dithiopyr Herbicide**  
**EPA Reg No. 9198-213**

Per PR Notice 98-10 enclosed is EPA Form 8570-1, an application notifying the Agency of a revision to the labeling for the above subject product. One copy of the revised labeling is enclosed with the additions underlined and marked in blue.

We have added the following optional marketing information to the label.

- On DGPro® Carrier

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

Sincerely,

The Andersons Lawn Fertilizer Division, Inc.

A handwritten signature in cursive script that reads "Debbie Ziehr".

Debbie Ziehr  
Regulatory Administrator  
Phone: 419-891-6671  
Fax: 419-891-2745  
Email: [debbie\\_ziehr@andersonsinc.com](mailto:debbie_ziehr@andersonsinc.com)

Enclosures

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# THE ANDERSONS 0.25% Granular DITHIOPYR HERBICIDE

*Optional marketing information:*

- Pre-emergent Weed Control
- Pre-emergent weed control for lawns & landscape ornamentals
- Pre-emergent weed control for lawns and ornamentals (landscape, field grown and container grown)
- Contains biosoluble ingredients
- Controls many weed species, as listed
- Early postemergence crabgrass control
- Easy spreading particles
- Uniform particle sizing
- On DGPro® Carrier

**NOTIFICATION**

**MAY - 7 2010**

For season long control or suppression of listed annual grasses and broadleaf weeds in ornamental landscape areas, established lawns and ornamental turf (including golf course fairways, roughs and tee boxes and sports turf) and container and field grown nursery ornamentals.

New York Use Restrictions: In New York State this product may only be used by professional applicators and at no more than 4.6 pounds per 1000 square feet (equal to 0.5 pound active ingredient per acre); and is prohibited from use in Nassau and Suffolk Counties.

**ACTIVE INGREDIENTS:**

*Dithiopyr F.....	0.25%
<b>OTHER INGREDIENTS</b> .....	<u>99.75%</u>
TOTAL.....	100.00%

FCAS No. 97886-45-8

\*This product contains 0.125 pounds of active ingredient, dithiopyr, per 50 pound bag.  
Product protected by U.S. Patent No. 41,692,184. Other patents pending.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA Reg. No. 9198-213

EPA Est. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A

Underlined letter is first letter used in run code on bag

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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

Causes eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction 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 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.
- 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.

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 is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forest, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection equipment (PPE), restricted-entry intervals. The requirements in this box only apply to uses of this product, that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours unless otherwise specified in the directions for use associated with each crop.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: 1. Coveralls over short sleeve shirt and short pants, 2. Chemical-resistant footwear, shoes plus socks, 3. Chemical-resistant gloves made of any waterproof material, and gloves, 4. Chemical-resistant headgear for overhead exposure. When the Restricted-Entry Interval for a crop is 7 days or longer, you must notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

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### **Non-Agricultural Use Requirements**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouses. Do not enter or allow others to enter the treated area until dusts have settled. In addition, if directions for use require watering-in, do not enter or allow others to enter the treated area (except those involved in the watering-in) until the watering-in is completed and the area has dried.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read the entire label before using this product. Use only according to label instructions.

### **STORAGE AND DISPOSAL**

**STORAGE:** Store this product only in its original container in a dry, cool, secured storage area. Do not contaminate water, food, or feed by storage and disposal. Keep container closed and away from food, feedstuffs, and domestic water supplies.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal in accordance with applicable Federal, state or local procedures.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

**SPILL:** In case of spill, sweep up material and dispose of material according to "pesticide disposal" directions above.

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

### **TURF USE**

This product is a herbicide that provides control of crabgrass and other annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, and tee boxes and greens. This product will not harm nearby established ornamentals when used according to label directions.

### **USE PRECAUTIONS**

#### **TURFGRASS SAFETY**

This product may be used on seeded, sodded, or sprigged lawns and ornamental turfs that are well-established. The grass must have developed a good root system and a uniform stand, and have received at least two mowings following its seeding, sodding, or sprigging before it can receive its first application of this product. Use of this product on lawns and ornamental turfs that are not well-established, or on those that have been weakened by weather-, pest-, disease-, chemical-, or mechanical-related stress, may increase the chances for turf injury.

This product should only be applied to lawns and ornamental turfs that are composed of the following turfgrass species that have been determined to be tolerant to applications of this product. When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

**Cool Season Grasses**

Bentgrass, creeping\*      Fescue, tall  
Bluegrass, Kentucky      Ryegrass, perennial  
Fescue, fine\*\*

**Warm Season Grasses**

Bahiagrass      Centipedegrass  
Bermudagrass      Kikuyugrass  
Buffalograss\*\*\*      St. Augustinegrass  
Carpetgrass      Zoysiagrass

\* Use of this product on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', 'Seaside', and 'Washington' may result in undesirable turfgrass injury. Not all varieties of creeping bentgrass have been tested.

DO NOT apply this product to Colonial bentgrass (*Agrostis tenuis*) varieties.

\*\*Use of this product on certain varieties of fine fescue may result in undesirable turf injury. The following fine fescue varieties have been found to be sensitive to this product: 'Atlanta', 'Banner', 'Beauty', 'Bilgart', 'CF-2', 'Enjoy', 'HF-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf', and 'Waldina'. Not all varieties of fine fescue have been tested.

\*\*\*DO NOT use this product on seedling buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

NOTE: It is not possible to evaluate all turfgrass varieties for tolerance to this product. It is suggested that the user evaluate the response of turfgrass varieties to this product on a limited area, at listed use rates, prior to initiating large-scale use.

**RESEEDING, OVERSEEDING, OR SPRIGGING**

Reseeding, overseeding, or sprigging of treated areas with this product should be delayed until 12 weeks from the time of application. Reseeding, overseeding or sprigging before 12 weeks after application may prevent establishment of desirable turfgrasses. When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. If overseeding with perennial ryegrass in the fall, overseed 8 weeks or later after a single application. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed to soil contact.

**OTHER USE PRECAUTIONS**

The early postemergence crabgrass control described below is limited. Postemergence applications are only effective on crabgrass if applied before crabgrass has displayed its fifth leaf or first tiller.

For best results, cultural practices that disturb the soil, such as core-, spike-, or hydro-aerification, and verticutting, should be done before application of this product. DO NOT apply this product until the grass has recovered from these cultural practices.

DO NOT use clippings from treated turf for mulching around vegetables or fruit trees.

Keep people and pets off treated areas until dust has settled.

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**APPLICATION DIRECTIONS**  
**CONTROL OF CRABGRASS**

**Preemergence and Early Postemergence Control**

This product provides "preemergence" control of crabgrass (including the large, smooth, and southern species) when applied prior to the emergence of crabgrass from the ground in established lawns and ornamental turfs.

It can also provide "early postemergence" control of crabgrass. Postemergence crabgrass control will be obtained only when this product is applied prior to the first tillering of crabgrass, which generally corresponds to the time when you can first easily see the crabgrass plants in the lawn or turf. The practical benefit of this product's early postemergence activity is it can give the user a 2-4 week longer period of time to make applications to control crabgrass.

**Application Frequency and Timing**

This product may be applied as a single application, as a split application, or as a sequential application for crabgrass control in the spring, summer, or fall.

DO NOT apply more than 4.6 lbs. per 1000 sq. ft. per application, and no more than 13.8 lbs. per 1000 sq. ft. per year.

**Spring Applications**

For single applications made in the spring or early summer, this product should be applied at the appropriate rate listed in Table 1 below. The duration of residual weed control provided by this product is directly related to the total rate applied, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region. Use the higher listed rates where weed infestations are dense. Also use the higher rates if applications are made early and longer residual control is desired.

Subsequent, sequential pre- and/or postemergence applications should be made where longer periods of control are desired.

Where split fertilizer applications are listed, the rates in Table 1 may be split across two applications made 6-10 weeks apart and prior to crabgrass emergence.

**Table 1: Application Rates of this product**

Weeds Controlled			Application Rate
Barley, Brome, Crabgrass: (Large, Smooth, Southern), Dallisgrass (seedling), Foxtail (Giant, Green, Yellow)			108 - 160 lbs./acre 2.4 - 3.6 lbs./1,000 sq ft 0.27 - 0.40 lbs. ai/acre
Barnyardgrass	Medic, black	Ryegrass, perennial	160 - 200 lbs./acre 3.6 - 4.6 lbs./1,000 sq ft 0.40 - 0.50 lbs. ai/acre
Chickweed	Mulberry weed	Sandbur	
Clover, hop	Mustard	Smutgrass	
Crabgrass, tropical	Oats, wild	Speedwell, corn	
Crowfootgrass	Oxalis	Spurge	
Dichondra, Carolina	Buttercup	Garden	
Lespedeza, common	Creeping Woodsorrel	Prostrate	
Kikuyugrass	Yellow Woodsorrel	Spotted	
Mary's grass	Pineappleweed		
Marestail	Ryegrass, annual		
Bluegrass, annual	Goosegrass	Purslane, common	200 lbs./acre
Bittercress	Henbit	Rocket, London	4.6 lbs./1,000 sq ft
Carpetweed	Knotweed, prostrate	Sherpardspurse	0.50 lbs. ai/acre

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Chickweed	Parsley-piert	
Geranium Carolina	Pigweed, redroot	

Use the higher rates where weed infestations are dense. Also use the higher rates if applications are made early and longer residual control is desired.

**Fall Applications**

This product can also be applied in the late summer or early fall (late August through November) at the use rates listed in Table 2 to provide control of crabgrass through the early part of the next spring. The fall application should be followed by an appropriate spring application to provide season-long control.

Table 2: Application Use Rates for Fall Applications  
(lbs. of product/1,000 square feet)

REGION	Preemergence
North	3.4
Transition	4.6*
South	4.6*
Coastal South	4.6*

\*DO NOT apply more than 4.6 lbs. per application, and no more than 13.8 lbs. per year. Postemergence control is limited; see "Crabgrass Control" and "Precautions" sections above.

**Tips For Improved Control**

For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application.

When treated lawn or ornamental turf areas are watered or receive significant rainfall within a few days after application of this product, improved weed control may result.

Use of split (half-rate) applications spaced 6-8 weeks apart may provide improved weed control.

**APPLICATION EQUIPMENT AND INSTRUCTIONS**

Apply this product with suitable spreaders such as drop or rotary-type designed to apply granular herbicides. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate above. Apply this product uniformly over the lawn or ornamental turf area. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

<b>Suggested Spreader Settings</b>						
These suggested spreader settings are not intended to replace calibration. Calibrate your spreader before applying product. XX lbs. treats X,XXX sq. ft. (XX acre) at the Low Rate (X.X#/1,000 sq. ft. rate) XX lbs. treats X,XXX sq. ft. (XX acre) at the Medium Rate (X.X#/1,000 sq. ft. rate) XX lbs. treats X,XXX sq. ft. (XX acre) at the High Rate (X.X#/1,000 sq. ft. rate) XX lbs. treats X,XXX sq. ft. (XX acre) at the Heavy Rate (X.X#/1,000 sq. ft. rate)						
SPREADER	GROUND OR PTO SPEED	WIDTH OF COVERAGE	SPREADER SETTINGS			
			Low Rate 2.4#/1,000 sq. ft.	Medium Rate 3.4#/1,000 sq. ft.	High Rate 3.6#/1,000 sq. ft.	Heavy Rate 4.6#/1,000 sq. ft.
AAA	X mph	XX ft/	X	X	X	X
BBB	X mph	XX ft	X	X	X	X
CCC	X mph	XX ft	X	X	X	X

**ORNAMENTALS (Landscape, Field Grown and Container Grown)**

This specialty herbicide provides preemergence control of listed annual grass and broadleaf weeds in areas planted with tolerant ornamental plants listed on this label. It is intended for use on plants grown for aesthetic purposes in landscaped areas or in container or field grown production nurseries. When applied as directed, the ornamental plants listed on this label have shown tolerance to over-the-top applications of this product.

**USE RATES**

Apply this product with a properly calibrated spreader which will assure accurate, even particle distribution. This product may be applied as a single application or as a split application. Refer to the following table for product recommendations when treating a small area.

DO NOT apply more than 200 lbs. per acre per application and no more than 3 applications (600 lbs.) per acre per year.

In New York State, this product may only be used by Professional Applicators at no more than 200 lbs. per acre (4.6 pounds per 1,000 sq. ft./ 0.5 lbs. active ingredient per acre) per year; and is prohibited from use in Nassau and Suffolk Counties.

<b>Pounds of Product per Acre 200</b>	<b>Pounds of Product per 1,000 square feet 4.6</b>	<b>Ounces of Product per 100 Square Feet 7.36</b>
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**APPLICATION TIMING AND RECOMMENDATIONS**

This product is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination or to bare ground. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, control existing vegetation by hand weeding, cultivation or with a postemergence herbicide. Once an application of this product has been made, do not disturb the soil surface as the herbicide barrier will be broken.

**Annual Grasses**

- Barley
- Barnyardgrass
- Bluegrass, annual
- Brome
- Crabgrass, large
- Crabgrass, smooth
- Crabgrass, southern
- Crowfootgrass
- Dallisgrass (seedling)
- Foxtail, giant
- Foxtail, green
- Foxtail, yellow
- Goosegrass
- Kikuyugrass
- Oats, wild
- Ryegrass (annual & perennial)
- Sandbur
- Smutgrass

**Broadleaf Weeds**

- Bittergrass
- Carpetweed
- Chickweed
- Geranium, Carolina
- Henbit
- Knotweed prostrate
- Lespedeza, common
- Marestail
- Medic, black
- Mulberry weed
- Mustard
- Oxalis, buttercup
- Parsley-piert
- Pigweed, redroot
- Pineappleweed
- Purslane, common
- Rocket, London
- Shepherdspurse
- Speedwell, corn
- Spurge, garden
- Spurge, prostrate
- Spurge, spotted
- Woodsorrel, creeping
- Woodsorrel, yellow

**USE RESTRICTIONS:**

- Only apply this product to established ornamentals.
- Do not apply this product directly to bare root of ornamental plants as injury may result. Following transplanting, care must be taken that soil or planting mixes have settled firmly through irrigation, rainfall or packing and that there are no cracks that would allow direct contact of this product to the plant roots or plant injury may occur.
- Do not incorporate this product into soil. Dilution of active ingredient and possible injury to plant roots may occur.

- Do not apply around ornamental plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides or injury due to insects, nematodes or disease.
- Irrigate immediately after application to remove herbicide particles from the foliage.
- Do not apply under conditions that would affect product distribution. Wind could affect distribution and move product onto sensitive species. Uneven product distribution will result in uneven weed control.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.
- Do not apply when weather conditions favor drift to non-target areas. This product may injure foliage of non-target plants unless they are listed on this label.
- Do not apply this product directly to plants that are grown for food (e.g., fruit trees or maple trees tapped for syrup)
- Do not apply this product in enclosed structures and greenhouses.
- Do not apply another preemergence herbicide within 4 weeks of application of this product.

**Treatment of Ornamental species not listed on this label:**

It is impossible to evaluate tolerance to this product on all ornamental plant species or varieties or under all possible growing conditions. Users who wish to use this product on ornamental species not listed on this label may determine the suitability for use by treating a small number of ornamental plants at a listed rate. Prior to treatment of larger areas, treated plants should be observed for any symptoms of herbicidal injury, such as foliar damage, reduced vigor or stand reduction, during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious.

**TOLERANT ORNAMENTALS**

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials. However, this product has not been tested on all cultivars of each species or under all possible growing conditions. Follow directions given above to determine plant tolerance under your growing conditions prior to large scale use.

		Acceptable Application Method Noted by a (X)		Application to Field/Landscapes or Container Grown Ornamentals Noted by a (X)	
Name	Tolerant Cultivars	Over the Top	Directed	Container Grown	Field/Landscape Grown
abelia, dwarf ( <i>Abelia x grandiflora</i> )	nana		x		x
abyssinian red banana ( <i>Ensete ventricosum</i> )	maureli	x	x	x	x
acacia redolens ( <i>Acacia redolens</i> )		x	x	x	x
Ajuga carpet bugle ( <i>Ajuga reptans</i> ) ( <i>Ajuga genevensis</i> )	bronze bronze beauty		x x		x x
almond, flowering ( <i>Prunus glandulosa</i> )			x		x
apple † ( <i>Malus pumila</i> )			x		x
arborvitae ( <i>Thuja occidentalis</i> )	nigra pyramidalis smaragh techny woodwardii		x x x x x		x x x x x

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arborvitae, dwarf golden ( <i>Thuja orientalis</i> )	aurea nana	x	x	x	x
ash, green ( <i>Fraxinus pennsylvanica</i> )			x		x
ash, autumn purple ( <i>Fraxinus americana</i> )	autumn purple		x		x
aster, Chinese ( <i>Callistephus chinensis</i> )	dwarf queen		x		x
azalea ( <i>Rhododendron spp.</i> )	brilliant buccaneer carror chimes (Belgian) Elsie Lee exbury fashion hardijzer beauty hersey red higasa hinocrimson Holland (hybrid) Marion Lee northern lights orange cup orchid lights snow southern charm		x x x x x x x x x x x x x x x x x x x x		x x x x x x x x x x x x x x x x x x x x
azalea, flame ( <i>Rhododendron calendulaceum</i> )			x		x
azalea, kirishima ( <i>Rhododendron obtusum</i> )			x		x
bamboo heavenly ( <i>Nandina domestica</i> )	compacta nana		x		x
barberry, Japanese ( <i>Berberis thunbergii</i> )	aurea dwarf pygmy green kobold pygmy red rose glow		x x x x x x		x x x x x x
barberry, purple ( <i>Berberis thunbergii</i> var atropurpurea)	atropurpurea		x		x
basket flower ( <i>Gaillardia grandiflora</i> )			x		x
beach grass ( <i>Ammophila breviligulata</i> )			x		x
bearberry (common) ( <i>Arctostaphylos uva-ursi</i> )	Massachusetts		x		x
bee balm ( <i>Monarda didyma</i> )			x		x
begonia ( <i>Begonia spp.</i> )			x		x
birch river ( <i>Betula nigra</i> )			x		x

blackeyed Susan ( <i>Rudbeckia hirta</i> )	goldstrum		x		x
blanket flower ( <i>Gaillardia spp.</i> )			x		x
blue fescue ( <i>Festuca ovina</i> )			x		x
blueberry † ( <i>Vaccinium spp.</i> )	bluecrop blue jay Jersey north blue northland		x x x x x		x x x x x
bottlebrush ( <i>Callistemon citrinus</i> )	Little John	x	x	x	x
bougainvillea ( <i>Bougainvillea spectabilis</i> )	James Walker Scarlet O'Hara		x x	x	x x
boxwood ( <i>Buxus microphylla</i> )	japonica		x		x
boxwood, green beauty ( <i>Buxus microphylla japonica</i> )	green beauty	x	x	x	x
boxwood, welleri ( <i>Buxus sempervirens</i> )	winter gem	x	x	x	x
broom ( <i>Cytisus scoparius</i> ) ( <i>Genista pilosa</i> )	moonlight Vancouver gold		x x		x x
camellia ( <i>Camellia japonica</i> )  ( <i>Camellia sasanqua</i> )	debutante mathotiana supreme chansonette setsukgekka		x x x x	x	x x x x
candytuft ( <i>Iberis sempervirens</i> )	snow white		x		x
carex, variegated ( <i>Carex spp.</i> )			x		x
carpet bugle ( <i>Ajuga reptans</i> ) ( <i>Ajuga genevensis</i> )	bronze bronze beauty		x x		x x
cedar, red ( <i>Juniperus virginiana</i> )			x		x
celosia ( <i>Celosia spp.</i> )			x		x
centaura ( <i>Centaurea montana</i> )			x		x
cockscomb, plumose ( <i>Celosia cristata</i> )	scarlet plumosa		x		x
coleus ( <i>Coleus blumei</i> )	red kewpie		x		x
columbine ( <i>Aquilegia spp.</i> )			x		x
coneflower, purple ( <i>Echinacea purpurea</i> )	magnus purple	x	x	x	x x
copper leaf ( <i>Acalypha wilkesiana</i> )			x		x

coreopsis ( <i>Coreopsis spp.</i> )	moonbeam		x		x
corn flower ( <i>Centaurea spp.</i> )			x		x
cotoneaster ( <i>Cotoneaster apiculatus</i> )			x		x
coyotebrush ( <i>Baccharis pilularis</i> )			x		x
cycad ( <i>Cycas revoluta</i> )			x		x
cypress, bald ( <i>Taxodium distichum</i> )			x		x
cypress, Italian ( <i>Cupressus sempervirens</i> )	glauca		x		x
cypress, Hinoki false ( <i>chamaecyparis obtusa</i> )	gracilis		x		x
cypress, leyland ( <i>Cupressocyparis leylandii</i> ) hybrid			x		x
daffodil ( <i>Narcissus spp.</i> )	King Alfred		x		x
daylilly ( <i>Heemerocallis spp.</i> )	Aztec gold bright yellow (hybrid) single gold (evergreen) Wilson's yellow		x x x x		x x x x
dianthus (sweet William) ( <i>Dianthus spp.</i> )			x		x
delphinium ( <i>Delphinium spp.</i> )	magic fountain		x		x
dogwood ( <i>Cornus florida</i> )			x		x
dogwood, American ( <i>Cornus sericea</i> )	flavarimea		x		x
Douglas fir ( <i>Pseudotsuga menziesii</i> )			x		x
dusty miller ( <i>Senecio cineraria</i> )		x	x	x	x
elm ( <i>Ulmus parvifolia</i> )	drake		x		x
eulaliagrass ( <i>Miscanthus sinensis</i> )	maiden grass	x	x	x	x

euonymus ( <i>Euonymus japonicus</i> )	Argenteo-variegata		x		x
	Auereomarginata		x		x
	colorata		x		x
( <i>Euonymus fortunei</i> )	emerald gaiety		x		x
	emerald n' gold		x		x
	gold edge		x		x
	gold princess		x		x
	Manhattan	x	x	x	x
	silver king		x		x
	tricolor		x		x
	vegetus		x		x
euryops, green leaved ( <i>Euryops pectinatus</i> )	viridis	x	x	x	x
fan palm, European ( <i>Chamaerops humilis</i> )			x		x
fan palm, Mexican ( <i>Washingtonia robusta</i> )			x		x
fern (various) ( <i>Asparagus spp.</i> )			x		x
fescue ( <i>Festuca glauca</i> )			x		x
fetterbush ( <i>Leucothoe fontanesiana</i> )	rainbow		x		x
fig ( <i>Ficus retusa</i> )	nitida		x		x
fir fraser ( <i>Abies fraseri</i> )			x		x
Forsythia ( <i>Forsythia x 'Arnold Dwarf</i> )	arnold dwarf		x		x
( <i>Forsythia viridissima</i> )	bronxensis dwarf		x		x
( <i>Forsythia xintermedia</i> )	lynwood gold		x		x
( <i>Forsythia x 'Meadowlark'</i> )	meadowlark		x		x
( <i>Forsythia x intermedia</i> )	spring glory	x	x	x	x
( <i>Forsythia suspensa</i> )	weeping		x		x
fountain grass, purple ( <i>Pennisetum setaceum</i> )	rubrum	x	x	x	x
fuchsia ( <i>Fuchsia spp.</i> )			x		x
galium ( <i>Galium odoratum</i> )			x		x
gardenia ( <i>Gardenia jasminoides</i> )	mystery		x		x
	radicans		x		x
	white gem	x	x	x	x
Garlic, variegated society ( <i>Thulbaghia violacea</i> )	variegata	x	x	x	x
geranium ( <i>Pelargonium x hortorum</i> )			x		x

gum ( <i>Eucalyptus citriodora</i> )			X		X
hawthorn ( <i>Crataegus spp.</i> )	cockspur white crimson cloud enchantress Jack Evans Washington white		X X X X X		X X X X X
hawthorn, Indian ( <i>Rhaphiolepis indica</i> )	ballerina		X		X
heather, twisted ( <i>Erica cinerea</i> )	Mediterranean pink		X		X
hemlock, Canada ( <i>Tsuga canadensis</i> )			X		X
hibiscus ( <i>Hibiscus spp.</i> )	blue bird brilliant hula girl		X X X		X X X
holly ( <i>Ilex x 'Nellie R. Stevens'</i> ) ( <i>Ilex x attenuata</i> )	Nellie R. Stevens fosteri Savannah	X	X X X	X	X X X
holly, blue ( <i>Ilex x meserveae</i> )	blue boy blue girl China girl		X X X		X X X
holly, cassine ( <i>Ilex cassine</i> )		X	X	X	X
holly, Chinese ( <i>Ilex cornuta</i> )	burfordii needlepoint		X X		X X
holly, Japanese ( <i>Ilex crenata</i> )	compacta hellerie Japanese northern beauty steeds		X X X X	X	X X X X
holly, yaupon ( <i>Ilex vomitoria</i> )			X		X
honeysuckle ( <i>Lonicera xylosteum</i> ) ( <i>Lonicera japonica</i> ) ( <i>Lonicera tatarica</i> )	Claveyi dwarf halliana Canadian white Zabelli		X X X X		X X X X
hosta ( <i>Hosta sieboldii</i> ) ( <i>Hosta lancifoliai</i> )	albo marginata		X X		X X
ice plant ( <i>Carpobrotus edulis</i> )		X	X	X	X
Ice plant ( <i>Drosanthemum floribundum</i> )		X	X	X	X
ice plant, white trailing ( <i>Delosperma alba</i> )		X	X	X	X
impatiens ( <i>Impatiens spp.</i> )			X		X
iris ( <i>iris spp</i> )	dwarf blue wedgewood		X X		X X
ivy, English ( <i>Hedera helix</i> )	Bulgaria thorndale		X X		X X



king palm ( <i>Archontophoenix cunninghamiana</i> )		x	x	x	x
laurel, Carolina cherry ( <i>Prunus caroliniana</i> )	bright n' tight	x	x	x	x
laural, mountain ( <i>Kalmia latifolia</i> )			x		x
leucothoe ( <i>Leucothoe fontanesiana</i> )			x		x
ligustrum, Japanese ( <i>Ligustrum japonicum</i> )			x		x
lily ( <i>Agapanthus spp.</i> )	steamline		x		x
Lily of the Nile ( <i>Agapanthus africanus</i> )	albus Peter Pan		x x		x x
lilyturf ( <i>Liriope muscari</i> )	evergreen giant lilac beauty majestic monroe white silvery sunproof variegata	x   x	x x x x x	x   x	x x x x x x
lilyturf, creeping ( <i>Liriope spicata</i> )			x		x
maple, amur ( <i>acer ginnala</i> )	emerald elf	x	x	x	x
maple, Japanese ( <i>Acer palmatum</i> )			x		x
maple, Norway ( <i>Acer platanoides</i> )			x		x
maple, red † ( <i>Acer rubrum</i> )	red sunset	x	x	x	x
maple silver ( <i>Acer saccharinum</i> )			x		x
maple sugar † ( <i>Acer saccharum</i> )			x		x
marigold ( <i>Tagetes patula</i> )	honeycomb variegata wheeleris dwarf		x x x		x x x
mock orange † ( <i>Philadelphus spp</i> )	golden snowflake double white		x x		x x
mondo grass ( <i>Ophiopogon japonicus</i> )			x		x
moss rose ( <i>Acer rubrum</i> )	sunnyside		x		x
mountainash ( <i>Sorbus aucuparia</i> )			x		x
myrtle, crape ( <i>Lagerstroemia indica</i> )	faurei langer muskogee standard pink		x x x x		x x x x
myrtle, wax ( <i>Myrica californica</i> )			x		x
narcissus ( <i>Narcissus spp.</i> )			x		x

oak, laurel ( <i>Quercus laurifolia</i> )			x		x
oak, pin ( <i>Quercus palustris</i> )			x		x
oak, red ( <i>Quercus rubra</i> )			x		x
oak, southern ( <i>Quercus virginiana</i> )			x		x
oak, willow ( <i>Quercus phellos</i> )			x		x
oleander ( <i>Nerium oleander</i> )	hardy red petite pink sister agnes		x x x		x x x
osteospermum ( <i>Osteospermum fruticosum</i> )	whirligig		x		x
pachysandra ( <i>Pachysandra terminalist</i> )			x		x
palm, King ( <i>Archontophoenix cunninghamiana</i> )			x		x
palm, queen ( <i>Syagrus romanzoffianum</i> )		x	x	x	x
pampas grass ( <i>Cortaderia selloana</i> )			x		x
pansy ( <i>Viola x wittrockiana</i> )			x		x
paper flower ( <i>Bougainvillea glabra</i> )	Barbara Karst	x	x	x	x
peach † ( <i>Prunus persica</i> )			x		x
periwinkle, dwarf ( <i>Vinca minor</i> )			x		x
petunia ( <i>Petunia x hybrida</i> )	picoti		x		x
photinia, red tip ( <i>Photinia x fraseri</i> )			x		x
peris ( <i>Pieris taiwanensis</i> )			x		x
peris, Japanese ( <i>Pieris japonica</i> )	mountain fire		x		x
pine, Afghan ( <i>Pinus eldarica</i> )		x	x	x	x
pine, Austrian black ( <i>Pinus nigra</i> )		x	x	x	x
pine, Japanese black ( <i>Pinus Thunbergia</i> )			x		x
pine, loblolly ( <i>Pinus taeda</i> )			x		x

pine, longleaf ( <i>Pinus palustris</i> )			x		x
pine, mugo or Swiss Mt. ( <i>Pinus mugo</i> )			x		x
pine, Scotch ( <i>Pinus sylvestris</i> )			x		x
pine, slash ( <i>Pinus elliottii</i> )			x		x
pine, Virginia ( <i>Pinus virginiana</i> )			x		x
pine, white ( <i>Pinus strobus</i> )		x	x	x	x
pineapple, guava † ( <i>Feijoa sellowiana</i> )			x		x
pittosporum, tobira ( <i>Pittosporum tobira</i> )	Wheeler's dwarf	x	x	x	x
plumbago, cape ( <i>Plumbago auriculata</i> )	royal cape	x	x	x	x
potentilla ( <i>Potentilla fruticosa</i> ) ( <i>Potentilla nepalensis</i> )	abbotswood		x x		x x
privet ( <i>Ligustrum x vicaryii</i> ) ( <i>Ligustrum japonicum</i> )	golden vicary regal texanum yellow tipped	x	x x x x	x	x x x x
privet, glossy ( <i>Ligustrum lucidum</i> )			x		x
Pyracantha or firethorn ( <i>Pyracantha x 'Gnome'</i> ) ( <i>Pyracantha coccinea</i> ) ( <i>Pyracantha koidzumii</i> )	gnome lalandei victory		x x x	x	x x x
queen palm ( <i>Arecastrum rammanzoffianum</i> )			x		x
quince, Japanese † ( <i>Chaenomeles japonica</i> )			x		x
Rhododendron ( <i>Rhododendron spp</i> )	album Cunningham white PJM purple gem silvery pink		x x x x x		x x x x x
rhododendron, Carolina ( <i>Rhododendron carolinianum</i> )			x		x
rhododendron, catawba ( <i>Rhododendron catawbiense</i> )			x		x

rhododendron, rhodie max - rosebay ( <i>Rhododendron maximum</i> )			x		x
ribbon grass ( <i>Phalaris arundinacea</i> )			x		x
rockcress ( <i>Arabis caucasica</i> )	snowcap		x		x
rose † ( <i>Rosa banksiae</i> )	luta		x		x
rose, knockout shrub ( <i>Rosa</i> spp. hybrid)	knockout	x	x	x	x
rosemary † ( <i>Rosmarinus officinalis</i> )			x		x
rosemary, bog ( <i>Andromeda polifolia</i> )	nana		x		x
salvia ( <i>Salvia farinacea</i> )	rhea		x		x
sedum ( <i>Sedum spurium</i> )	dragon blood red red carpet yellow		x x x		x x x
smoketree, royal purple ( <i>Cotinus coggygria</i> )	royal purple		x		x
snapdragon ( <i>Antirrhinum</i> spp.)			x		x
snowball, common ( <i>Viburnum opulus</i> )	sterile	x	x	x	x
sourwood ( <i>Oxydendrum arboreum</i> )			x		x
spiraea ( <i>Astilbe X arendsii</i> )	fanall		x		x
spiraea ( <i>Spiraea</i> spp.)	Anthony Waterer red dolchica froebeli pink goldenflame red snowmound white Van Houtte white		x x x x x x		x x x x x x
spiraea, garland ( <i>Spiraea x arguta</i> )			x		x
spruce, Black Hills ( <i>Picea glauca</i> var <i>densata</i> )			x		x
spruce, Colorado blue ( <i>Picea pungens</i> )	glauca	x	x	x	x
spruce, Norway ( <i>Picea abies</i> )			x		x
spruce, white ( <i>Picea glauca</i> )	conica		x		x

sweetflag grass ( <i>Acorus calimus</i> )			X		X
sweetgum ( <i>Liquidambar styraciflua</i> )			X		X
sycamore, American ( <i>Platanus occidentalis</i> )			X		X
tea tree, New Zealand ( <i>Leptospermum scoparium</i> )	ruby glow	X	X	X	X
tree fern (tiki fern) ( <i>Asparagus virgatus</i> )			X		X
trumpet flower or Carolina jessamine ( <i>Gelsemium sempervirens</i> )			X		X
tulip ( <i>Tulip spp</i> )	apeldoorn		X		X
tufted hairgrass ( <i>Deschampsia caespitosa</i> )			X		X
verbena, shrub ( <i>Lantana sellowiana</i> )			X		X
Verbena, St. Paul's ( <i>Verbena peruviana.</i> )	St. Paul		X		X
viburnum ( <i>Viburnum spp.</i> )	American cranberry bush arrowwood European cranberry bush linden Mohican wright		X X X X X X		X X X X X X
vinca (periwinkle) ( <i>Vinca minor</i> )			X		X
windmill palm ( <i>Trachycarpus fortunei</i> )			X		X
xylosma ( <i>Xylosma congestum</i> )			X		X
yarrow ( <i>Achillea spp.</i> )			X		X
yaupon ( <i>Ilex vomitoria</i> )	dwarf		X		X
yew ( <i>Taxus cuspidata</i> ) ( <i>Taxus x media</i> )	capitata denisiformis	X	X X	X	X X

† Ornamental species only. Do not use on plants grown for food.

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**APPLICATION EQUIPMENT AND INSTRUCTIONS**

Apply this product with drop, rotary-type or pneumatic spreaders designed to apply granular herbicides. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate listed above. Apply this product uniformly over the area to be treated. Avoid streaking, skips or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

NET WEIGHT XX LBS. (XX kg)

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:

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

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Manufactured by:

The Andersons Lawn Fertilizer Division, Inc.

d/b/a Free Flow Fertilizer

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