

53887-208

03-08-2010

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES.

Amy Warren  
Registration Specialist  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

MAR 8 2010

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

Dear Ms. Warren:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated January 26, 2010 for:

**EPA Registration 53883-207**

**Dithiopyr 0.13% Plus Fertilizer**

**EPA Registration 53883-208**

**Dithiopyr 0.25% Plus Fertilizer**

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 703-308-5551.

Sincerely,

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

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



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 53883 - 208	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dithiopyr 0.25% Plus Fertilizer	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507-1041 <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>MAR 8 - 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 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, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for 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, and 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 checked="" type="checkbox"/> Metal	
If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container		<input checked="" type="checkbox"/> Plastic	
				<input type="checkbox"/> Glass	
				<input checked="" type="checkbox"/> Paper	
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 pound-50 pound		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Amy Warren		Title Regulatory Affairs Specialist		Telephone No. (Include Area Code) 800-242-5562	
<p style="text-align: center;"><b>Certification</b></p> <p>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.</p>					<p>6. Date Application Received (Stamped)</p>
2. Signature 		3. Title Regulatory Affairs Specialist			
4. Typed Name Amy Warren		5. Date 1-26-10			



January 26, 2010

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

**Re: Notification per (PR) Notice 2007-4, Labeling Revisions required by the Final Rule  
"Pesticide Management and Disposal"  
Dithiopyr 0.25% Plus Fertilizer (EPA Reg. No. 53883-208)**

Dear Sir or Madam:

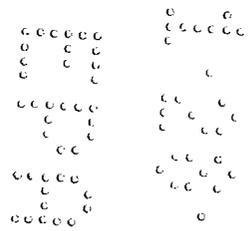
Enclosed is a Notification for (PR) 2007-4; See highlighted text on attached labeling.

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, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for 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, and 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.

If you have any questions or need additional information, please feel free to contact me.

Sincerely,

Amy Warren  
Regulatory Affairs Specialist  
Control Solutions, Inc.



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**NOTIFICATION**

**MAR 8 - 2010**

# Dithiopyr 0.25% Plus Fertilizer

## TURF AND ORNAMENTAL HERBICIDE

For Season-Long Control of Crabgrass and Control or Suppression of Listed Annual Grasses and Broadleaf Weeds in Established Lawns and Ornamental Turf, including Golf Course Fairways, Roughs and Tee Boxes, and in Established Landscape Ornamentals.

In the state of New York this product may be applied only by commercial applicators at no more than 200 lbs. (0.5 pounds AI) per acre (4.6 lbs. per 1,000 sq. ft.) per year. Not for use in Nassau or Suffolk Counties.

**Active Ingredient:**

Dithiopyr: S,S'-dimethyl 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-3,5-pyridinedicarbothioate ..... 0.25%

**Inert Ingredients:**..... 99.75%

**TOTAL:**..... 100.00%

EPA REG NO. 53883-208

EPA EST. NO. XXXXX-XXX-XXX

Net Weight:

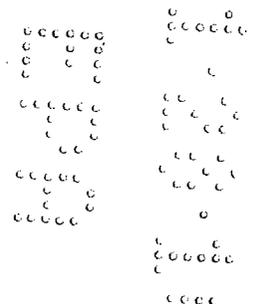
Control Solutions, Inc.  
5903 Genoa-Red Bluff Rd.  
Pasadena, TX 77507-1041

**Guaranteed Fertilizer Analysis: XX-XX-XX**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See [back] [side] [other] panel for further precautions and First Aid information



<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or physician immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or physician.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.</p>	

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if inhaled. Causes moderate eye irritation. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Avoid contact with eyes or clothing. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

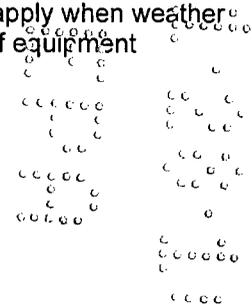
- Personal Protective Equipment (PPE)  
 Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
  - Chemical-resistant gloves such as natural rubber
  - Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

<p>Use Safety Recommendations          Users should:</p> <ul style="list-style-type: none"> <li>• Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.</li> <li>• Remove clothing/PPE if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>
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**ENVIRONMENTAL HAZARDS**

This pesticide 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. 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 may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.



### DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

#### 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, forests, 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 protective equipment (PPE) and restricted-entry interval. 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. 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:

- Coveralls
- Chemical-resistant gloves
- Shoes plus socks

#### 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, forests, nurseries or greenhouses.

- Keep unprotected persons out of treated area during application and until dust has settled.

#### GENERAL INFORMATION

Dithiopyr 0.25% Plus Fertilizer provides season-long control of crabgrass and control or suppression of listed annual grasses and broadleaf weeds in established lawns and ornamental turf, including golf course fairways, roughs and tee boxes, and in established landscape ornamentals. This product also provides postemergent crabgrass control up to the 4-leaf stage.

**SPREADER SETTINGS** to apply at the listed pounds per 1,000 square feet

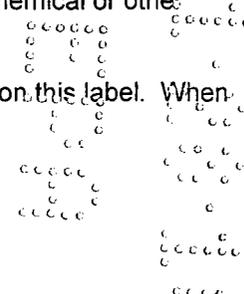
*(to be furnished at printing)*

#### FOR USE ON TURF

Dithiopyr 0.25% Plus Fertilizer provides season-long control of crabgrass and other annual grasses and broadleaf weeds in established lawns and ornamental turf, including golf course fairways, roughs and tee boxes. Dithiopyr 0.25% Plus Fertilizer will not harm nearby established ornamentals identified on this label as "Tolerant Ornamentals" when used according to label directions.

Apply this product only to seeded, sodded, or sprigged lawns and ornamental turf that is well established. Before the use of Dithiopyr 0.25% Plus Fertilizer, the grass must have a developed root system and a uniform stand. Following seeding, sodding or sprigging, the turf must be mowed at least two times. Injury may result if the turf is not well established, or stressed by weather, pests, disease, chemical or other related conditions.

Dithiopyr 0.25% Plus Fertilizer may be applied to established turfgrass species listed on this label. When applied as directed, the following turfgrass species are tolerant to this product:



COOL-SEASON GRASSES	USE PRECAUTIONS
Creeping Bentgrass <sup>1</sup> ( <i>Agrostis palustris</i> ), Kentucky Bluegrass ( <i>Poa pratensis</i> ), Fine Fescue <sup>2</sup> ( <i>Festuca rubra</i> ), Tall Fescue ( <i>Festuca arundinacea</i> ), Perennial Ryegrass ( <i>Lolium perenne</i> ),	<sup>1</sup> Turfgrass injury may result from the use of this product on certain varieties of creeping bentgrass such as Cohansey, Carmen, Seaside and Washington. Not all varieties of creeping bentgrass have been tested. Do not apply this product to Colonial Bentgrass ( <i>Agrostis tenuis</i> ) varieties.  <sup>2</sup> Turfgrass injury may result from use of this product on the following varieties of Fescue such as Atlanta, Banner, Beauty, Bilgart, CF-2, Enjoy, HF-93, Highlight, Ivalo, Koket, Jamestown, Majenta, Mary, Pennilawn, Tamara, Tatiana, Walfort and Waldina. Not all varieties of fescue have been tested.
WARM-SEASON GRASSES	
Bahiagrass ( <i>Paspalum notatum</i> ), Bermudagrass ( <i>Cynodon dactylon</i> ), Buffalograss <sup>3</sup> ( <i>Buchloe dactyloides</i> ), Carpetgrass ( <i>Axonopus compressus</i> ), Centipedegrass ( <i>Eremochloa ophiuroides</i> ), Kikuyugrass ( <i>Pennisetum clandestinum</i> ), St. Augustinegrass ( <i>Stenotaphrum secundatum</i> ), Zousiagrass ( <i>Zoysia japonica</i> )	<sup>3</sup> 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 to turfgrass varieties not listed on this label on a limited area, at recommended use rates, prior to initiating large-scale use.

**RESEEDING, OVERSEEDING OR SPRIGGING**

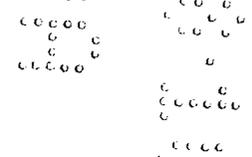
Reseeding, overseeding, or sprigging of treated areas within 10 weeks after a single application of this product or within 16 weeks after a split application program may inhibit the establishment of desirable turfgrasses. When seeding or overseeding, follow good cultural practices such as soil cultivation, irrigation and fertilization. For best results, use mechanical or power seeding equipment (slit seeders) for good seed-to-soil contact.

**USE RESTRICTIONS**

- Do not apply more than 4.6 lbs./1,000 sq. ft. (0.5 Lbs. AI/acre) per application.
- Do not apply more than 13.8 lbs./1,000 sq. ft. (1.5 lbs. AI/acre) per year.
- In New York, do not apply more than 4.6 lbs. /1,000 sq. ft. per year.
- Do not use clippings from treated turf for animal feed or for mulching around vegetables or fruit trees.
- Do not allow domestic animals to feed or forage on treated turf.
- Keep people and pets off treated areas until dust has settled.
- Do not use on golf course putting greens.

**CRABGRASS CONTROL**

Dithiopyr 0.25% Plus Fertilizer provides pre-emergence control of crabgrass (large, smooth, and southern species) when applied prior to emergence of crabgrass from the ground. Dithiopyr 0.25% Plus Fertilizer provides "early post-emergence" control during the early stages of growth after crabgrass emerges from the ground. This early post-emergence control is limited and applications are only effective if applied before the crabgrass has its 3-leaf or first tiller (which usually is about the time when you can first see the



crabgrass in the lawn). With this post-emergence activity, the applicator has 2 to 4 weeks longer to make applications for control of crabgrass.

For best results, apply Dithiopyr 0.25% Plus Fertilizer within a few days after mowing and delay mowing again for a few days after application. Rainfall or irrigation activates the product. Improved weed control will result if the application is followed by 1/2 inch of rainfall or sprinkler irrigation. Weed control may be hampered if rainfall or irrigation does not occur with 30 days after application. Split, or half rate applications spaced 5 to 10 weeks apart may also enhance weed control. Cultural practices such as aerification and de-thatching should be completed and the turf allowed to recover before application of this product.

**APPLICATION TIMING**

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

**SPRING APPLICATIONS:** For single applications in the spring or early summer, follow the appropriate rate listed in "TABLE 1: APPLICATION RATES FOR CRABGRASS CONTROL" below. Rates are based on the location to be used (Region), the mowing height of the turfgrass, and whether the timing of the application is considered preemergence or postemergence. The length of residual weed control is dependent on the total rate applied, but may vary depending on weather, weed pressure and location.

Program 1: For preemergence control to turf mowed relatively high, such as home lawns. This program will provide 3 to 5 months of preemergence crabgrass control. This program should not be used for early postemergence control of crabgrass.

Program 2: For preemergence control at sites where the turf is mowed relatively low, such as golf course fairways, and where turfgrass maintenance and weed control applications were made the previous year. This program will provide 4 to 6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass up to the fifth leaf, or first tiller, at locations where the turf is cut high.

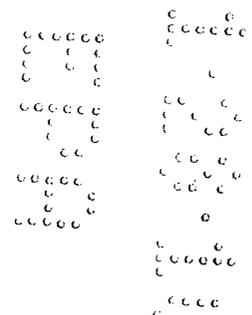
Program 3: For preemergence control at locations where turf is mowed relatively low, such as golf course fairways, and where turfgrass maintenance and weed control applications were not made the previous year. This program will provide 4 to 6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass up to the fifth leaf, or first tiller, at locations where the turf is cut relatively low.

**FALL APPLICATIONS:** Dithiopyr 0.25% Plus Fertilizer may be applied in late summer or early fall (late August through November). Follow the instructions for "Program 3" for crabgrass control through the early part of the next spring. Fall applications may be followed by an appropriate spring application to provide season-long control.

[Optional Language:

**TURF GRASS REGIONS**

*Insert map showing regions for crabgrass control as noted in table below]*



**TABLE 1: APPLICATION RATES FOR CRABGRASS CONTROL**

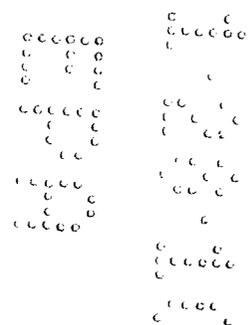
REGION	PROGRAM 1 Preemergence (high-cut turf)	PROGRAM 2 Preemergence (low-cut turf) Postemergence (high-cut turf)	PROGRAM 3 Preemergence (low-cut turf) Postemergence (low-cut turf)
All states not designated below and parts of states not included in transition, south, coastal south or west.	1.7 lb./1,000 sq. ft. (76 lb./acre or 0.19 lb./Al/acre)	2.3 lb./1,000 sq. ft. (100 lb./acre or 0.25 lb./Al/acre)	3.5 lb./1,000 sq. ft. (152 lb./acre or 0.38 lb./Al/acre)
Transition: DE, KS, KY, MD, MO, VA, southeastern PA, southern areas of IL, IN, OH, and coastal areas of CT, NY and RI.	2.3 lb./1,000 sq. ft. (100 lb./acre or 0.25 lb./Al/acre)	3.5 lb./1,000 sq. ft. (152 lb./acre or 0.38 lb./Al/acre)	4.6 lb./1,000 sq. ft. (200 lb./acre or 0.5 lb./Al/acre)
South (AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN and TX)	3.5 lb./1,000 sq. ft. (152 lb./acre or 0.38 lb./Al/acre)	2.3 + 2.3* lb./1,000 sq. ft. (100 + 100 lb./acre or 0.25 + 0.25 lb./Al/acre)	2.8 + 2.8* lb./1,000 sq. ft. (124 + 124 lb./acre or 0.31 + 0.31 lb./Al/acre)
Coastal South (HI, FL, southern coastal areas of AL, GA, LA, MS, NC, SC, and TX)	2.3 + 2.3* lb./1,000 sq. ft. (100 + 100 lb./acre or 0.25 + 0.25 lb./Al/acre)	2.8 + 2.8* lb./1,000 sq. ft. (124 + 124 lb./acre or 0.31 + 0.31 lb./Al/acre)	3.5 + 3.5* lb./1,000 sq. ft. (152 + 152 lb./acre or 0.38 + 0.38 lb./Al/acre)
West: AZ, CA & NV. In this climatically diverse region, use the higher rates in local areas with longer crabgrass seasons.	1.7 + 2.3* lb./1,000 sq. ft. (76 + 100 lb./acre or 0.19 + 0.25 lb./Al/acre)	2.3 + 3.5* lb./1,000 sq. ft. (100 + 152 lb./acre or 0.25 + 0.38 lb./Al/acre)	2.3 + 2.3* lb./1,000 sq. ft. (100 + 100 lb./acre or 0.25 + 0.25 lb./Al/acre)
* Split applications may be made 5-10 weeks apart.			

**SPLIT OR SEQUENTIAL APPLICATIONS**

Split or sequential applications may be used to provide improved weed control or to provide extended weed control in areas with long growing seasons. Split applications may be made with rates in Table 1 split between two applications made 5-10 weeks apart. Where longer periods of control are required, sequential applications may be made in late summer or fall following a spring application or in the spring following a fall application provided the maximum application rate per year is not exceeded. Refer to the "Use Restrictions" section above.

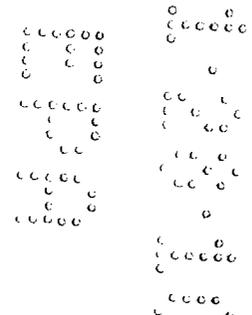
**CONTROL OF OTHER GRASS AND BROADLEAF WEEDS**

**SPRING APPLICATION:** When used as directed for crabgrass control in spring, Dithiopyr 0.25% Plus Fertilizer will also control or suppress the following weeds when applied prior to their emergence:



<b>GRASSES</b>	
Common Name	Botanical Name
Barley	<i>Hordeum</i> spp.
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass (annual roughstalk)	<i>Poa annua</i>
Brome	<i>Bromus</i> spp.
Crabgrass, large	<i>Digitaria sanguinalis</i>
Crabgrass, smooth	<i>Digitaria ischaemum</i>
Crabgrass, Southern	<i>Digitaria ciliaris</i>
Crowfootgrass*	<i>Dactyloctenium aegyptium</i>
Dallisgrass (seedling)	<i>Paspalum dilatatum</i>
Foxtail (yellow & green)	<i>Setaria faberi, Setaria Verdi</i>
Goosegrass	<i>Eleusine indica</i>
Kikuyugrass*	<i>Pennisetum clandestinum</i>
Oats, wild	<i>Avena fatua</i>
Ryegrass (annual & perennial)	<i>Lolium</i> spp.
Sandbur	<i>Cenchrus</i> spp.
Smutgrass	<i>Sporobolus indicus</i>
<b>BROADLEAF WEEDS</b>	
Bittercress*	<i>Cardamine</i> spp.
Carpetweed	<i>Mullugo verticillata</i>
Chickweed*	<i>Stellaria</i> spp.
Geranium, Carolina*	<i>Geranium carolinianum</i>
Henbit	<i>Lamium</i> spp.
Knotweed, prostrate	<i>Polygonum aviculare</i>
Lespedeza, common*	<i>Lespedeza striata</i>
Marestail	<i>Conyza Canadensis</i>
Medic, black	<i>Medicago lupulina</i>
Mustard	<i>Brassica</i> spp.
Oxalis, buttercup	<i>Oxalis pes-caprae</i>
Parsley-piert*	<i>Alchemilla arvensis</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pineappleweed*	<i>Matricaria matricarioides</i>
Purslane, common	<i>Portulaca oleracea</i>
Rocket, London	<i>Sisymbrium irio</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Speedwell, corn*	<i>Veronica arvensis</i>
Spurge, garden	<i>Euphorbia hirta</i>
Spurge, prostrate	<i>Euphorbia humistrata</i>
Spurge, spotted	<i>Euphorbia maculate</i>
Woodsorrel, creeping	<i>Oxalis corniculata</i>
Woodsorrel, yellow	<i>Oxalis stricta</i>
* Suppression only.	

**FALL APPLICATION:** When used as directed for late summer or early fall use, for crabgrass control through the early part of next spring, Dithiopyr 0.25% Plus Fertilizer will also control or suppress the following weeds



WEEDS CONTROLLED	
Common Name	Botanical Name
Bluegrass (annual)	<i>Poa annua</i>
Bittercress	<i>Cardamine</i> spp.
Chickweed	<i>Stellaria</i> spp.
Geranium (Carolina)	<i>Geranium carolinianum</i>
Henbit	<i>Lamium</i> spp.
Parsley-piert	<i>Alchemilla arvensis</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>

**APPLICATION EQUIPMENT AND INSTRUCTIONS**

This product may be applied with drop or rotary-type spreaders designed to apply granular herbicides. For best results, apply this product evenly and uniformly avoiding streaking, skips or overlaps. Avoid the use of spreaders that tend to apply granules in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions. Initial spreader settings may require adjustment to deliver the recommended application rate under actual application conditions. The desired calibration setting may be marked or recorded for future reference.

Apply this product uniformly over the treatment area. More uniformity can be achieved by applying one-half of the required amount of product over the treatment area and then applying the remaining one-half in a different direction (e.g., at a right angle to the previous direction). Check equipment frequently to verify calibration and proper functioning. Clean and lubricate spreader after use.

**FOR USE ON LANDSCAPE ORNAMENTALS**

Dithiopyr 0.25% Plus Fertilizer provides preemergence control or suppression of annual grass and broadleaf weeds in landscape ornamentals. Refer to "For Use on Turf" section of this label for a complete listing of weeds controlled or suppressed. This product may be applied to soil surfaces or mulch where ornamental plants are grown for aesthetic purposes in ornamental gardens, parks, golf courses, and residential areas.

**APPLICATION INSTRUCTIONS**

Dithiopyr 0.25% Plus Fertilizer is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination to bare ground or mulch. For best results, apply to soil that is free of clods, weeds and debris such as leaves. Before application, any existing vegetation should be removed by hand weeding, cultivation, or with the use of a postemergence herbicide. Once the application is made, do not disturb the soil surface as the herbicide barrier will be broken. Irrigate immediately after application to remove herbicide particles from the foliage to prevent foliar damage to ornamentals.

**SPLIT OR SEQUENTIAL APPLICATIONS**

Split or sequential applications may be used to provide improved weed control or to provide extended weed control in areas with long growing seasons. Split applications may be made with rates in Table 2 split between two applications made 5-10 weeks apart. Where longer periods of control are required, sequential applications may be made in late summer or fall following a spring application or in the spring following a fall application provided the maximum application rate per year is not exceeded.

**USE RESTRICTIONS**

- Only apply this product to established ornamentals.
- DO NOT apply this product directly to the bare roots of ornamental plants as injury may result.
- DO NOT incorporate this product into soil: Dilution of active ingredient and plant root injury may occur.
- DO NOT apply to soil around ornamentals 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.
- DO NOT apply under conditions that would affect product distribution (such as windy conditions).

- DO NOT apply this product on grasses grown for seed.
- DO NOT graze livestock or feed forage cut from areas treated with this product.

**USE RATES**

Apply Dithiopyr 0.25% Plus Fertilizer with a properly calibrated spreader that will provide accurate, even particle distribution. Refer to Table 2 below for product rates when treating a small area.

DO NOT apply more than 4.6lbs. of this product per 1,000 sq. ft., per application and no more than 13.8 lbs. of this product per 1,000 sq. ft. per year.

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

**TABLE 2: APPLICATION RATES FOR LANDSCAPE ORNAMENTALS**

Pounds Product/Acre	Pounds Product/1,000 sq. ft.	Pounds of Product/100 Sq. Ft.
200	4.6	0.46 (7.4 oz.)

**APPLICATION EQUIPMENT AND INSTRUCTIONS**

This product may be applied with drop or rotary-type spreaders designed to apply granular herbicides. For best results, apply this product evenly and uniformly avoiding streaking, skips or overlaps. Avoid the use of spreaders that tend to apply granules in narrow rows or concentrated bands. Calibrate the spreader according to the manufacturer's directions. Initial spreader settings may require adjustment to deliver the recommended application rate under actual application conditions. The desired calibration setting may be marked or recorded for future reference.

Apply this product uniformly over the treatment area. More uniformity can be achieved by applying one-half of the required amount of product over the treatment area and then applying the remaining one-half in a different direction (e.g., at a right angle to the previous direction). Check equipment frequently to verify calibration and proper functioning. Clean and lubricate spreader after use.

**TOLERANT ORNAMENTALS**

When applied as directed under the conditions described on this label, the 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. A limited area involving only a few plants should be treated for tolerance evaluations before large-scale applications.

Common Name	Botanical Name	Tolerant Cultivars
Abelia, Dwarf	<i>Abelia X grandiflora</i>	Nana
Ajuga	<i>Ajuga reptans</i>	Bronze
	<i>Ajuga Genevensis</i>	Bronze Beauty
Almond, flowering	<i>Prunus glandulosa</i>	
Apple*	<i>Malus pumila</i>	
Arborvitae	<i>Thuja occidentalis</i>	Nigra
		Pyramidalis
		Smaragh
		Techny
		Woodwardii
Arborvitae, Golden	<i>Thuja orientalis</i>	
Aster, Chinese	<i>Callistephus chinensis</i>	Dwarf Queen
Ash, Green	<i>Fraxinus pennsylvanica</i>	
Ash, Mountain	<i>Sorbus aucuparia</i>	
Ash, Purple	<i>Fraxinus Americana</i>	
Azalea	<i>Rhodendrun spp.</i>	Brilliant

		<p>Buccaneer Carror Chimes (Belgian) Elsie Lee Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hinocrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm</p>
<p>Azalea, Flame Azalea, Kirishima Bamboo, Heavenly Barberry</p>	<p><i>Rhododendron calendulaceum</i>  <i>Nandina domestica</i> <i>Berberis thunbergii</i></p>	<p>Aurea Dwarf Pygmy Green Koboid Pygmy Red Rose Glow Atropurpurea</p>
<p>Barberry, Purple Basket Flower Bearberry (common) Bee Balm Begonia Birch, River Blackeyed Susan Blanket Flower Blueberry*</p>	<p><i>Berberis vulgaris</i> <i>Gaillardia grandiflora</i> <i>Arctostaphylos uva-ursti</i> <i>Monarda didyma</i> <i>Begonia</i> spp. <i>Betula nigra</i> <i>Rudbeckia hirta</i> <i>Gaillardia</i> spp. <i>Vaccinium</i> spp.</p>	<p>Massachusetts  Goldstrum</p>
<p>Bottlebrush Boxwood, Japanese Boxwood, Weller Broom Broom Bugle Carpet Carnelia</p>	<p><i>Callistemon citrinus</i> <i>Buxus microphylla</i> <i>Buxus sempervirens</i> <i>Cytisus</i> spp. <i>Genista pilosa</i>  <i>Camellia japonica</i></p>	<p>Bluecrop Blue Jay Jersey North Blue Northland  Japonica  Moonlight Vancouver Gold</p>
<p>Candy Tuft Carex, Variegated Cedar, Red Celosia Centaurea Cockscomb, Plumosa Coleus</p>	<p><i>Camelia sasangua</i> <i>Ilberis</i> spp. <i>Carex</i> <i>Juniperus virginiana</i> <i>Celosia</i> spp. <i>Centaurea montana</i> <i>Celosia cristata</i> <i>Coleus blumei</i></p>	<p>Debutanta Mathotiana Supreme Chansonette  Snow White  Scarlet Plumosa Red Kewpie</p>

<p>Columbine Copper leaf Coreopsis Cornflower Cotoneaster Coyotebrush Cycads Cypress, Bald Cypress, Italian Cypress, Japanese False Cupress, Leyland Daffodil Daylilly</p>	<p><i>Aquilegia</i> spp. <i>Acalypha wilkesiana</i> <i>Coreopsis</i> spp. <i>Centaurea</i> spp. <i>Ctoneaster apiculatus</i> <i>Baccharis pelularis</i> <i>Cycads revolute</i> <i>Taxodium distichum</i> <i>Cupressus sempervirens</i> <i>Chamaecyparis obtuse</i> <i>Cupressocyparis leylandii</i> <i>Narcissus</i> spp. <i>Hemerocallis</i> spp.</p>	<p>Moonbloom</p>
<p>Delphinium Dianthus (Sweet William) Dogwood Dogwood, American Douglas Fir Dusty Miller Elm, Drake Euonymus</p>	<p><i>Delphinium</i> spp. <i>Dianthanthus</i> spp. <i>Cornus florida</i> <i>Cornus sericea</i> <i>Psuedotsuga menziesil</i> <i>Senecio cineraria</i> <i>Ulmus parvifolia</i> <i>Euonymus fotunei</i></p>	<p>Glauca Gracilis</p> <p>King Alfred Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow Magic Fountain</p> <p>Flavarimaea</p>
<p>Fan Palm, European Fan, Plam, Mexican Fern (various) Fescue Fetterbush Ficus Fir, Fraser Forsythia</p>	<p><i>Chamaerops humilis</i> <i>Washingtonia robusta</i> <i>Asparagus</i> spp. <i>Festuca glauca</i> <i>Leucothoe fontiana</i> <i>Ficus retusa</i> <i>Abies fraseri</i> <i>Forsythia X intermeida</i></p>	<p>Argenteo-variegata Auereo-marginata Colorata Emerald Gaiety Emerald 'N Gold Gold Edge Gold Princess Silver King Tricolor Vegetus</p> <p>Rainbow Nitidia</p> <p>Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping</p>
<p>Fuchsia Galium Gardenia</p>	<p><i>Spring Glory</i> <i>Fuchsia</i> spp. <i>Galium odoratum</i> <i>Gardenia jasminoides</i></p>	<p>Mystery Radicans</p>
<p>Geranium Gum Hawthorn</p>	<p><i>Pelargonium X hortorum</i> <i>Eucalyptus citriodora</i> <i>Crataegus</i> spp.</p>	<p>Cockspur White Crimson Cloud Enchantress</p>

<p>Heather, Twisted Hemlock, Canada Hibiscus</p>	<p><i>Erica cinerea</i> <i>Tsuga canadensis</i> <i>Hibiscus</i> spp.</p>	<p>Jack Evans Washington White Mediterranean Pink</p>
<p>Holly</p>	<p><i>Ilex</i> spp.  <i>Ilex X meserveae</i></p>	<p>Blue Bird Brilliant Hula Girl Blue Boy Blue Girl Burfodii China Girl Compacta Forsteri Hellerie Japanese Northern Beauty Needlepoint Nellie R. Stevens Savanah</p>
<p>Holly, Chinese Holly, Japanese Holly, Yaupon Honeysuckle</p>	<p><i>Ilex X attenuata</i> <i>Ilex cornuta</i> <i>Ilex crenata</i> <i>Ilex vomitoria</i> <i>Lonicera japonica</i></p>	<p>Clavey's Dwarf Hilliana Tatarian Canadian White Zebelli Red Hosta Albo Marginata</p>
<p>Hosta</p>	<p><i>Hosta</i> spp. <i>Hosta lancifolia</i></p>	
<p>Ice Plant</p>	<p><i>Carpobrotus edulis</i></p>	
<p>Impatiens</p>	<p><i>Impatiens</i> spp.</p>	
<p>Iris</p>	<p><i>Iris</i> spp.</p>	
<p>Ivy, English</p>	<p><i>Hedera helix</i></p>	<p>Dwarf Blue Wedgewood Bulgaria Thorndale</p>
<p>Jasmine, Asian</p>	<p><i>Trachelospermum asiaticum</i></p>	
<p>Juniper</p>	<p><i>Juniperus horizontalis</i></p>	<p>Arcadia Armstrong Bar Harbor Blue Chip Blue Pacific Blue Rug Blue Star Broadmoor Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fruitlandi Green Gold Tip Hetzi Hughes Manhattan Blue Parsoni Pfitzeriana Plumosa</p>

		<p>Prince of Wales Procumbens Dwarf San Jose Sargent Blue Sargent Green Scandia Scopulorum Moonglow Scopulorum Skyrocket Spartan Tamariscifolia Weberi Youngstown Yukon Belle</p>
<p>King Palm Laurel, Australian Laurel, Mountain Leucothoe Ligustrum, Japanese Lily, African</p>	<p><i>Juniperus chinensis</i> <i>Juniperus Sabina</i></p> <p><i>Archontophoenix cunninghamiana</i> <i>Pittosporum tobira</i> <i>Kalmia latifolia</i> <i>Leucothoe fontanesiana</i> <i>Ligustrum japonicum</i> <i>Agapanthus africanus</i></p>	<p>Albus Peter Pan</p>
<p>Lily, African Blue Lily of the Valley Lilyturf</p>	<p><i>Pieris japonica</i> <i>Liriope muscari</i></p>	<p>Mt. Fire Evergreen Giant Lilac Beauty Majestic Monroe White Variegata</p>
<p>Liriope, Green Maple, Japanese Maple, Norway Maple, Red Maple, Silver Maple, Sugar Marigold</p>	<p><i>Liriope spicata</i> <i>Acer japonicum</i> <i>Acer platanoides</i> <i>Acer rubrum</i> <i>Acer saccharinum</i> <i>Acer saccharum</i> <i>Tagetes patula</i></p>	<p>Honeycomb Variegata Wheeler's Dwarf Golden Snowflake Double White</p>
<p>Mock Orange* Mondo Grass Moss Rose Myrtle, Crape</p>	<p><i>Philadelphus</i> spp. <i>Ophiopogon japonicus</i> <i>Portulaca grandiflora</i> <i>Lagerstroemia indica</i></p>	<p>Sunnyside Faurei Langer Muskogee Standard Pink</p>
<p>Myrtle, Wax Nandina</p>	<p><i>Myrica cerifera</i> <i>Nandina domestica</i></p>	<p>Compacta Nana</p>
<p>Narcissus Oak, Laurel Oak, Pin Oak, Red Oak, Southern Oak, Willow Oleander</p>	<p><i>Narcissus</i> spp. <i>Quercus laurifolia</i> <i>Quercus palustris</i> <i>Quercus rubra</i> <i>Quercus virginiana</i> <i>Quercus phellos</i> <i>Nerium oleander</i></p>	<p>Hardy Red Petite Pink Sister Agnes</p>

Osteospermum	<i>Osteospermum fruticosum</i>	Whirligig
Pachysandra	<i>Pachysandra terminalis</i>	
Palm, Bangalow		
Pampas Grass	<i>Cortaderia selloana</i>	
Pansy	<i>Viola x wittrockiana</i>	
Paper Flower	<i>Bougainvillea glabra</i>	Barbara Karst
Peach*	<i>Prunus persica</i>	
Periwinkle, Dwarf	<i>Vinca minor</i>	
Petunia	<i>Petunia X hybrida</i>	Picoti
Photinia, Red Tip	<i>Photinia X fraseri</i>	
Pieris	<i>Pieris japonica</i>	
Pine, Australian	<i>Pinus nigra</i>	
Pine, Japanese Black	<i>Pinus thunbergiana</i>	
Pine, Loblolly	<i>Pinus taeda</i>	
Pine, Longleaf	<i>Pinus palustris</i>	
Pine, Mugho	<i>Pinus mugho</i>	
Pine, Scotch	<i>Pinus sylvestris</i>	
Pine, Slash	<i>Pinus elliotii</i>	
Pine, Swiss Mt.	<i>Pinus mugo</i>	
Pine, Virginia	<i>Pinus virginiana</i>	
Pine, White	<i>Pinus strobes</i>	
Pineapple, Guava	<i>Feijoa fellowiana</i>	
Pittosporum, Japan		
Potentilla	<i>Potentilla nepalensis</i>	Abbotswood
	<i>Potentilla fruticosa</i>	
Privet	<i>Ligustrum japonicum</i>	Golden Vicary Regal Texanum Wax Yellow Tipped
Privet, Glossy	<i>Ligustrum lucidum</i>	Gnome
Pyracantha	<i>Pyracantha koidzumii</i>	Lalandei Victory
Queen Palm	<i>Arecastrum rammanzoffianum</i>	
Quince, Japanese*		
Rhododendron	<i>Rhododendron</i> spp.	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink
Rhododendron, Carolina	<i>Rhododendron carolinianum</i>	
Rhododendron, Catawba	<i>Rhododendron catawbiense</i>	
Rockcress	<i>Arabis</i> spp.	Snowcap
Rhodia Max (Rosebay)	<i>Rhododendron maximum</i>	
Rose	<i>Rosa banksiae</i>	Luta
Rosemary*	<i>Rosmarinus officinalis</i>	
Rosemary, Bog	<i>Andromeda polifolia</i>	Nana
Salvia	<i>Salvia farinacea</i>	Rhea
Sedum	<i>Sedum spurium</i>	Dragon Blood Red Red Carpet Yellow
Snapdragon	<i>Antirrhinum</i> spp.	
Sourwood	<i>Oxydendrum arboretum</i>	



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