

DITHIOPYR	GROUP	3	HERBICIDE
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18-0-3 Fertilizer with 0.15% Dimension® Turf Herbicide

For season-long control of crabgrass and control or suppression of listed annual grasses and established lawns including golf course fairways, roughs and tee boxes.

- 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 parks, or on golf courses or lawns.

In the state of New York, this product may be applied only by commercial applicators at a minimum of 167 lb (0.25 lb active ingredient) per acre (3.8 lb per 1000 sq ft) and no more than 333 lb (0.5 lb active ingredient) per acre (7.7 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Active Ingredient dithiopyr: 3,5- pyridinedicarbothioic acid, 2-(difluoromethyl)- 4-(2-methylpropyl)-6- (trifluoromethyl)-S,S-dimethyl ester	0.15%
Other Ingredients	99.85%
Total	100.00%

This product contains 0.075 pound of the active ingredient dithiopyr per 50 pound bag.

EPA Reg. No. 9198-261
EPA Est. No. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A, 9198-IN-3S
(Underlined letter is first letter used in run code on end of bag)

Guaranteed Analysis	
Total Nitrogen (N)	18.00%
18.00% Urea Nitrogen *	
Soluble Potash (K ₂ O)	3.00%

Derived From: urea and potassium chloride

Chlorine (Cl) Max 2.54%
*4.50% nitrogen stabilized with N-(N-Butyl) thiphosphoric triamide and dicyandiamide

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

Florida Applications:
We recommend that you follow the Florida Green Industries BMP's at:
http://www.flrules.org/Gateway/reference.asp?No=Ref-04706
We recommend that you follow the Florida Golf Course BMP's at:
http://www.flrules.org/Gateway/reference.asp?No=Ref-04702

Nitrogen Notice: For those states with nitrogen application restrictions, including but not limited to, MD, NH, NJ and VA, do not apply more than 3.8 lbs of this product per 1,000 sq.ft.

In Maryland, this product is providing nutrients in accordance with a soil test that was conducted by a laboratory identified under 8-803.7 of this article and performed no more than 3 years before the application.

Keep Out of Reach of Children

CAUTION

First Aid	
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Hot Line Number: Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact the emergency hotline at 1-800-757-8951 day or night, for emergency treatment information.	

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear long-sleeved shirt, long pant, shoes, and socks.

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 highwater mark. 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.

Use Directions for Turf
This product provides season-long control of crabgrass and control or suppression of other listed annual grasses and broadleaf weeds in established lawns including golf course fairways, roughs, and tee boxes.

Use Precautions for Turf
This product may be used on seeded, sodded, or sprigged lawns that are well-established. Initial application of this product should be made only after turfgrasses have developed a vigorous root system, a uniform stand, and have received at least two mowing's following seeding, sodding, or sprigging. Use of this product on turfgrasses that are not well-established, or weakened by stress from weather, pests, disease, chemical, or mechanical influences, may increase the chances of turf injury. Sweep any product that lands on the driveway, sidewalk, or street back onto lawn and garden.

Apply this product only to turfgrass species listed on this label. The following turfgrass species are tolerant to this product when applied as directed:

Cool-Season Grasses		Warm-Season Grasses	
Bentgrass, creeping†	<i>Agrostis palustris</i>	Bahiagrass	<i>Paspalum notatum</i>
Bluegrass, Kentucky	<i>Poa pratensis</i>	Bermudagrass	<i>Cynodon dactylon</i>
Fescue, fine††	<i>Festuca rubra</i>	Buffalograss †††	<i>Buchloe dactyloides</i>
Fescue, tall	<i>Festuca arundinacea</i>	Carpetgrass	<i>Axonopus affinis</i>
Ryegrass, perennial	<i>Lolium perenne</i>	Centipedegrass	<i>Eremochloa ophiuroides</i>
		Kikuyugrass	<i>Pennisetum clandestinum</i>
		St. Augustinegrass	<i>Stenotaphrum secundatum</i>
		Zoysiagrass	<i>Zoysia japonica</i>

† 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*).
†† 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', 'tajjana', '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 not listed on this label on a limited area, at specified use rates, prior to initiating large-scale use.

- Precautions for Reseeding, Overseeding, or Sprigging**
- Reseeding, overseeding, or sprigging of areas treated with this product within 10 weeks after a single application of this product or within 16 weeks after a split application program totaling 7.7 lb/1000 sq ft (0.5 lb active ingredient per acre) or more may inhibit the establishment of desirable turfgrasses.
 - When reseeding or overseeding, follow established cultural practices for seedbed preparation, seeding, irrigation and fertilization.
 - For best overseeding results, use mechanical or power seeding equipment (slit seeders) designed to provide good contact between soil and seed.

Precautions for Control of Crabgrass
Early postemergence weed control with this product is limited to crabgrass. Postemergence application effectively controls crabgrass, but only if application is made prior to the 3-leaf stage of growth 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 turfgrass has recovered from the mechanical injury caused by these cultural practices.

- Use Restrictions**
- Do not** use clippings from treated turf for mulching around vegetables or fruit trees.
 - Do not** allow people or pets to enter treated area until dust has settled.
 - Do not** graze livestock or feed forage cut from areas treated with this product.

Application Directions for Turf
Apply this product with equipment that provides a uniform particle distribution. Calibrate application equipment prior to usage. Avoid streaking, skips, or excess overlaps during application.

- Preemergence Application Rates, Frequency and Timing**
For preemergence grass and broadleaf weed control, apply this product as single or sequential application at 167 to 333 pounds (0.25 to 0.5 lb active ingredient) per acre. Applicators may choose to make a single application or sequential applications at 167 to 333 pounds per acre at 5 to 10 weeks intervals based on one or more of the factors listed below:
- Length of residual weed control desired
 - Height of turf (lower cut turf may require higher use rates)
 - History and success of weed control at the application site (use higher listed application rates if herbicide treatment history is unknown or weed control was poor with previous applications)
 - Exposure to high temperatures and heavy rainfall or irrigation (this will shorten the residual preemergence performance)
 - On turf sites adjacent to hard surfaces including driveways, sidewalks and parking lots where residual activity may be reduced
 - Some target weed species (such as but not limited to *Poa annua*, goosegrass and sandbur) will require higher use rates

- Tips for Improved Weed Control**
- For best results, apply this product within 2 to 3 days after mowing and delay mowing again for 2 to 3 days after the application.
 - The turf herbicide and fertilizer components in this product are not effective until activated by rainfall or irrigation. Performance is improved if application is followed by 1/2 inch of rainfall or sprinkler irrigation. Erratic weed control may result if not activated by rainfall or irrigation within 30 days after application.

- Maximum Use Rates (Applies to all Turfgrass Uses)**
- Do not** apply more than 333 lb (0.5 lb active ingredient) per acre (7.7 lb per 1000 sq ft) per application.
 - Do not** apply more than 6 times per year and do not apply more than 1000 lb (1.5 lb active ingredient) per acre (23.1 lb per 1000 sq ft) per year if using split or sequential applications.
 - To minimize the potential for turfgrass injury, do not make applications within five weeks of the previous application.**
 - In the state of New York, this product may be applied only by commercial applicators at no more than 333 lb (0.5 lb active ingredient) per acre (7.7 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

- Control of Crabgrass**
Preemergence and Early Postemergence Applications from Late Winter through Summer
- This product provides "preemergence" control of crabgrass in established turfgrasses (including the large, smooth, and southern species) when applied prior to germination and emergence of crabgrass at use rates from 167 to 333 pounds of product (0.25 to 0.5 lb ai) per acre.
 - This product also provides "early postemergence" control of crabgrass if applied in late spring or early summer prior to the 3-leaf stage of growth or first tiller as described below. This stage of growth generally corresponds to the time when crabgrass seedlings first become visible in the established turfgrass. The practical benefit of early postemergence crabgrass control is a 2-4 week longer period of time (window of application) during which crabgrass control can be achieved.

Fall Applications
This product can also be applied in the late summer through early fall (late August through November) at use rates from 167 to 333 pounds per acre to provide control of crabgrass through the early part of the next spring. Fall application of this product may be followed by an appropriately timed application in the following spring for season-long control of crabgrass.

Weeds Controlled or Suppressed
Spring Applications
When applied preemergence (prior to germination) for control of crabgrass in the spring, this product will also control or suppress the following weeds.

Grasses	
Barley	<i>Hordeum spp.</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass, annual	<i>Poa annua</i>
Brome	<i>Bromus spp.</i>
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>
Goosegrass	<i>Eleusine indica</i>
Foxtail, green	<i>Setaria verdi</i>
Foxtail, yellow	<i>Setaria faberi</i>
Kikuyugrass †	<i>Pennisetum clandestinum</i>
Oats, wild	<i>Avena fatua</i>
Ryegrass (annual & perennial)	<i>Lolium spp.</i>
Sandbur	<i>Cenchrus spp.</i>
Smutgrass	<i>Sporobolus indicus</i>

Broadleaf Weeds	
Bittercress †	<i>Cardamine spp.</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed †	<i>Stellaria spp. geranium</i>
Carolina †	<i>Geranium carolinianum</i>
Henbit	<i>Lamium spp. knotweed</i>
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 spp.</i>
Oxalis, buttercup	<i>Oxalis pes-caprae</i>
Pineappleweed†	<i>Matricaria matricarioides</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Parsley-piert†	<i>Alchemilla arvensis</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 maculata</i>
Woodsorrel, creeping	<i>Oxalis corniculata</i>
Woodsorrel, yellow	<i>Oxalis stricta</i>

† Suppression only

- Fall Applications**
When applied preemergence (prior to germination) in late summer through early fall (late August through November) this product will control or suppress the following weeds in addition to providing preemergence control of crabgrass in the following spring.
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|-------------------|----------------------------------|
| Bluegrass, annual | <i>Poa annua</i> |
| Bittercress | <i>Cardamine spp.</i> |
| Chickweed | <i>Stellaria spp.</i> |
| Henbit | <i>Lamium spp. geranium,</i> |
| Carolina | <i>Geranium carolinianum</i> |
| Parsley-piert | <i>Alchemilla arvensis</i> |
| Pineappleweed | <i>Matricaria matricarioides</i> |
| Shepherdspurse | <i>Capsella bursa-pastoris</i> |
- WEED RESISTANCE MANAGEMENT**
This product which contains the active ingredient dithiopyr is a Group 3 herbicide based on the mode of action classification system of the Weed Science Society of America.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

- The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.
To aid in the prevention of developing weeds resistant to this product, users should:
- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
 - Start with a clean field, using either a burndown herbicide application or tillage.
 - If using post-emergence herbicides or tank mixes, control weeds early when they are relatively small.
 - Apply full rates of this product for the most difficult to control weed in the field at the specified time to minimize weed escapes.
 - Scout fields after application to detect weed escapes or shifts in control of weed species.
 - Control weed escapes before they reproduce by seed or proliferate vegetatively.
 - Report any incidence of non-performance of this product against a particular weed to your local company representative, local retailer, or county extension agent.
 - Contact your local company representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective modes of action for each target weed.
 - If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 3 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
 - Suspected herbicide-resistant weeds may be identified by these indicators:
 - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
 - A spreading patch of non-controlled plants of a particular weed species; and
 - Surviving plants mixed with controlled individuals of the same species.
- Additionally, users should follow as many of the following herbicide resistance management practices as is practical:
- Use a broad spectrum herbicide with other mode of action as a foundation in a weed control program,

- if appropriate.
- Utilize sequential applications of herbicides with alternative modes of action.
- Rotate the use of this product with non-Group 3 herbicides.
- Avoid making more than two sequential applications of this product and any other Group 3 herbicides within a single growing season unless mixed with an herbicide with a different mode of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields to reduce weed seed production.

Application Instructions and Equipment
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 specified 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 of application can usually 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). Avoid streaking, skips, or overlaps during application.

Spreader Settings					
These spreader settings are not intended to replace calibration. Please calibrate your spreader prior to applying product. 50 lbs. treats 13,100 sq. ft. (0.30 acre) at 166 lbs. product/acre - LOW RATE (3.8 lbs/1,000 sq. ft.) 50 lbs. treats 8,600 sq. ft. (0.20 acre) at 253 lbs. product/acre – MEDIUM RATE (5.8 lbs/1,000 sq. ft.) 50 lbs. treats 6,400 sq. ft. (0.15 acre) at 335 lbs. product/acre - HIGH RATE (7.7 lbs/1,000 sq. ft.)					
SPREADER	GROUND SPEED	WIDTH OF COVERAGE	LOW RATE 0.25 LB. ai/A	MEDIUM RATE 0.38 lb. ai/A	HIGH RATE 0.50 lb. ai/A
Anderson 2000 /AP 2000 Andersons 2000SR/SR-2000 Andersons LCO-1000	3 mph	10 feet	L 3/4	O 1/4	P 3/4
Andersons Dual Impeller DI2020	3 mph	11 feet	L 3/4	O 1/4	P 3/4
Lely Model W II-C	3 mph	34 feet	6	7 1/4	8 1/4
Lesco 020093 (0.25)	3 mph	7 feet	E	F	G
Lesco 705698 (0.25)	3 mph	7 feet	12	14	16
Scotts R-8A	3 mph	10 feet	K 3/4	N 1/4	O 3/4
Vicon 03	4.5 mph	28 feet	30	38	43

These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

STORAGE AND DISPOSAL
Do not contaminate water, food, or feed by storage and disposal.
Pesticide Storage: Store this product in its original container in a cool, dry place. Keep container closed and away from food, feedstuffs, and domestic water supplies.
Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.
Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available. If not available, 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.

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. To the extent consistent with applicable law, 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.

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

Manufactured by:
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Net Wt. 50 lb (22.68 kg)