



# 13-0-5

## Turf King Fertilizer

### with 0.172% Dithiopyr

#### 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.

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

For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns.

In the state of New York this product may be applied only by commercial applicators at no more than 288 lbs. (0.5 pounds AI) per acre (6.67 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-pyridinedicarboxylate	0.172%
Other Ingredients:	99.828%
TOTAL:	100.000%

## KEEP OUT OF REACH OF CHILDREN

# CAUTION

See back panel for further precautions and First Aid Information below

### FIRST AID

<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>

#### HOT LINE NUMBER

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 Information Center, 1-800-858-7378, Monday-Friday, 8:00 – 12:00 pm PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

## 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear long-sleeved shirt and long pants, sock, shoes and chemical-resistant gloves such as natural rubber. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### 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.

## DIRECTION FOR USE

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

#### GENERAL INFORMATION

Turf King Fertilizer with 0.172% Dithiopyr 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.

#### FOR USE ON TURF

Turf King Fertilizer with 0.172% Dithiopyr provides season-long control of crabgrass and control or suppression of other annual grasses and broadleaf weeds in established lawns and ornamental turf, including golf course fairways, roughs and tee boxes. Dithiopyr 0.172% Plus Fertilizer will not harm nearby established ornamentals identified on this label as "Tolerant Ornamentals" when used according to label directions.

### GUARANTEED ANALYSIS

Total Nitrogen (N) . . . . .	13.00%
9.75% Urea Nitrogen	
3.25% CSRUN	
Potash (K <sub>2</sub> O) . . . . .	5.00%

**Nutrients derived from:**  
Sulfur Coated Urea, Urea, Muriate of Potash.

Information concerning the raw materials composing this product can be obtained by writing to the Guarantor listed on this label, and referring to the batch number found on this container.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Apply this product only to seeded, sodded, or sprigged turf that is well established. Before the use of Turf King Fertilizer with 0.172% Dithiopyr, roots must be developed and the turf mowed at least twice to a uniform height. Injury may result if the turf is not well established, or stressed by weather, pests or other conditions.

Turf King Fertilizer with 0.172% Dithiopyr 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>1</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, Keket, Jamestown, Majenta, Mary, Pennlawn, Tamara, Tatiana, Walfort and Waldina. Not all varieties of fescue have been tested.
WARM-SEASON GRASSES	USE PRECAUTIONS
Bahiagrass ( <i>Paspalum notatum</i> ), Bermudagrass ( <i>Cynodon dactylon</i> ), Buffalograss <sup>1</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> ), Zoysiagrass ( <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 12 weeks after application of this product may inhibit the establishment of desirable turfgrasses. When seeding, 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 6.67 lbs./1,000 sq. ft. (0.5 lbs. AI/acre) per application.
- Do not apply more than 20 lbs./1,000 sq. ft. (1.5 lbs. AI/acre) per year.
- In New York, do not apply more than 6.67 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 roam on treated turf.
- Keep people and pets off treated areas until dust has settled.
- Do not use on golf course putting greens.

#### CRABGRASS CONTROL

Turf King Fertilizer with 0.172% Dithiopyr provides pre-emergence control of crabgrass (large, smooth, and southern species) when applied prior to emergence of crabgrass from the ground. Turf King Fertilizer with 0.172% Dithiopyr 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 tier (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.

#### APPLICATION INSTRUCTIONS

For best results, apply Turf King Fertilizer with 0.172% Dithiopyr 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 ½ 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 aeration 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.

## NET WT 50 lb (22.7 kg)

EPA Reg. No. 53883-209-47956 • EPA Est. No. 47956-PA-001

**SPRING APPLICATIONS:** For single applications in the spring or early summer, follow the appropriate rate listed in "TABLE 1: APPLICATION RATES FOR CRABGRASS CONTROL" on next page. 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 pre-emergence or post-emergence. 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 pre-emergence control to turf mowed relatively high, such as home lawns. This program will provide 3 to 5 months of pre-emergence crabgrass control. Do not use this program for early post-emergence control of crabgrass.

**Program 2:** For pre-emergence control at sites where the 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 pre-emergence crabgrass control and may also be used for early post-emergence control of crabgrass at locations where turf is cut high.

**Program 3:** For pre-emergence 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 pre-emergence crabgrass control and may also be used for early post-emergence control of crabgrass at locations where the turf is cut relatively low.

**FALL APPLICATIONS:** Turf King Fertilizer with 0.172% Dithiopyr 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 appropriate spring application to provide season-long control.

#### 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 below being 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.

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)
<b>North</b> (all areas)	1.66 lbs./1,000 sq. ft. (73 lbs./acre or 0.125 lbs. AI/acre)	2.45 lbs./1,000 sq. ft. (107 lbs./acre or 0.183 lbs. AI/acre)	3.33 lbs./1,000 sq. ft. (145 lbs./acre or 0.25 lbs. AI/acre)
<b>Transition</b> (DE, KS, KY, MD, MO, VA, southeastern PA, southern areas of IL, IN, OH, and coastal areas of CT, NY and RI)	2.45 lbs./1,000 sq. ft. (107 lbs./acre or 0.183 lbs. AI/acre)	3.33 lbs./1,000 sq. ft. (145 lbs./acre or 0.25 lbs. AI/acre)	4.9 lbs./1,000 sq. ft. (213 lbs./acre or 0.366 lbs. AI/acre)
<b>South</b> (AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN and TX)	3.33 lbs./1,000 sq. ft. (145 lbs./acre or 0.25 lbs. AI/acre)	4.9 lbs./1,000 sq. ft. (213 lbs./acre or 0.366 lbs. AI/acre)	6.67 lbs./1,000 sq. ft. (291 lbs./acre or 0.50 lbs. AI/acre)
<b>Coastal South</b> (HI, FL, southern coastal areas of AL, GA, LA, MS, NC, SC, and TX)	4.9 lbs./1,000 sq. ft. (213 lbs./acre or 0.366 lbs. AI/acre)	6.67 lbs./1,000 sq. ft.* (291 lbs./acre or 0.50 lbs. AI/acre)	6.67 lbs./1,000 sq. ft.* (291 lbs./acre or 0.50 lbs. AI/acre)

\* Split applications may be made 5-10 weeks apart.

#### CONTROL OF OTHER GRASS AND BROADLEAF WEEDS

**SPRING APPLICATION:** When used as directed for crabgrass control in spring, Turf King Fertilizer with 0.172% Dithiopyr will also control or suppress the following weeds when applied prior to their emergence:

Grasses	BROADLEAF WEEDS CONTROLLED		
Common Name	Botanical Name	Common Name	Botanical Name
Barley	<i>Hordeum spp.</i>	Bittercress*	<i>Cardamine spp.</i>
Barryardgrass	<i>Echinochloa crus-galli</i>	Carpetweed	<i>Mullugo verticillata</i>
Bluegrass (annual roughstalk)	<i>Poa annua</i>	Chickweed*	<i>Stellaria spp.</i>
Brome	<i>Bromus spp.</i>	Geranium, Carolina*	<i>Geranium carolinianum</i>
Crabgrass, large	<i>Digitaria sanguinalis</i>	Henbit	<i>Lamium spp.</i>
Crabgrass, smooth	<i>Digitaria ischaemum</i>	Knockweed, prostrate	<i>Polygonum aviculare</i>
Crabgrass, Southern	<i>Digitaria ciliaris</i>	Lespedeza, common*	<i>Lespedeza striata</i>
Crownfootgrass*	<i>Dactyloctenium aegyptium</i>	Marestail	<i>Conyza Canadensis</i>
Dallisgrass (seeding)	<i>Paspalum dilatatum</i>	Medic, black	<i>Medicago lupulina</i>
Foxtail (yellow & green)	<i>Setaria faberi, Setaria Verdi</i>	Mustard	<i>Brassica spp.</i>
Goosegrass	<i>Elyusine indica</i>	Oxalis, buttercup	<i>Oxalis pes-caprae</i>
Kikuyugrass*	<i>Pennisetum clandestinum</i>	Parsley-plant*	<i>Alochemilla arvensis</i>
Oats, wild	<i>Avena fatua</i>	Pigweed, redroot	<i>Amaranthus retrofractus</i>
Ryegrass (annual & perennial)	<i>Lolium spp.</i>	Pineappleweed*	<i>Matricaria matricarioides</i>
Sandbur	<i>Cenchrus spp.</i>	Surgeans, common	<i>Portulaca oleracea</i>
Smutgrass	<i>Sporobolus indicus</i>	Rocket, London	<i>Sisymbrium irio</i>
		Shepherdspurse	<i>Capsella bursa-pastoris</i>
		Speedwell, com*	<i>Veronica arvensis</i>
		Spurge, garden	<i>Euphorbia hirta</i>
		Spurge, prostrate	<i>Euphorbia humistrata</i>
		Spurge, spotted	<i>Euphorbia maculata</i>
		Woodsoresl, creeping	<i>Oxalis corniculata</i>
		Woodsoresl, 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, Turf King Fertilizer with 0.172% Dithiopyr will also control or suppress the following weeds when applied prior to their emergence:

\* Suppression Only.

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

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