

TCS GrowStar™ Dimension* 0.10% + Fertilizer

For season-long control of crabgrass and 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.

- 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.
- Covers up to 11,300 Sq Ft (100' x 113')

In the state of New York, this product may be applied only by commercial applicators at a minimum of 250 lb (0.25 lb active ingredient) per acre (5.7 lb per 1000 sq ft) and no more than 500 lb (0.5 lb of active ingredient) per acre (11.5 lb per 1,000 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 0.1%
OTHER INGREDIENTS: 99.9%
Total: 100.0%

This product contains 0.05 pounds of the active ingredient dithiopyr per 50 pound bag.

22-0-8

GUARANTEED FERTILIZER ANALYSIS

F1612
TOTAL NITROGEN (N) 22.0%
 22.0% Urea Nitrogen*
SOLUBLE POTASH (K₂O) 8.0%
TOTAL SULFUR (S) 1.0%
 1.0% Free Sulfur
IRON (Fe) 2.0%
 0.02% Water Soluble Iron

DERIVED FROM: Polymer-Coated Sulfur-Coated Urea, Urea, Muriate of Potash, Iron Sulfate

CHLORINE (Cl) Max. 6.0%
 * 11.0% Controlled Released Urea Nitrogen from Polymer-Coated Sulfur-Coated Urea

The maximum rate of application of this product must not exceed the lesser of the applicable rate determined from the Maximum Use Rates, and the applicable rate determined in the State Nutrient Restrictions table.

State Nutrient Restrictions

State	Readily Available Nitrogen* lbs/1,000 sq ft	Total Nitrogen lbs/1,000 sq ft
MD, NH, PA, VA	0.7	0.9
NJ	0.7	1.0

* Nitrogen present beyond the amount shown as Readily Available must be in the form of Slow-Release Nitrogen

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS • 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 contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 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 further 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 1-800-992-5994 day or night, for emergency 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.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at the end of Directions for Use. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

Pesticide Storage: Store this product only in its original container in a dry, cool, secured storage area.

Pesticide Disposal: 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. Offer for recycling if available, or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA REG. NO. 62719-486-82757

EPA EST. NO. 82757-OH-001 (MF)

EPA EST. NO. 82757-MA-002 (H)

EPA EST. NO. 82757-FL-001 (S)

First Letter of Lot # Indicates Manufacturing Site

Distributed by:
Turf Care Supply LLC
 50 Pearl Road, Suite 200
 Brunswick, OH 44212

DIRECTIONS FOR USE

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

Use Directions for Turf

Dimension* 0.10% + Fertilizer provides season-long control of crabgrass and control or suppression of other listed annual grasses and broadleaf weeds in established lawns

and ornamental turfs, including golf course fairways, roughs, and tee boxes. When used according to label directions, this product will not harm nearby established ornamentals identified as "Tolerant Ornamentals" elsewhere in this label.

Use Precautions for Turf

This product may be used on seeded, sodded, or sprigged lawns and ornamental turfs 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 mowings 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.

- Florida Applications: For application to sports turf (non-agricultural land planted exclusively for golf courses, parks and athletic fields), follow "SL191, 'Recommendations for N, P, K and Mg for Golf Course & Athletic Field Fertilization Base on Mehlich I Extractant'" available at <http://edis.ifas.ufl.edu/SS404>, or "BMP's for Enhancement of Environmental Quality on Florida's Golf Courses" available at <http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/glfbmp07.pdf>

- Florida Applications: For application to urban turf (non-agricultural land planted in closely mowed, managed grasses except golf courses, parks and athletic fields), follow "Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries" available at http://www.dep.state.fl.us/central/Home/MeetingsTraining/FLGreen/BMP_Book_final.pdf

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:

- | | |
|----------------------|----------------------------|
| bentgrass, creeping* | <i>Agrostis palustris</i> |
| bluegrass, Kentucky | <i>Poa pratensis</i> |
| fescue, fine** | <i>Festuca rubra</i> |
| fescue, tall | <i>Festuca arundinacea</i> |
| ryegrass, perennial | <i>Lolium perenne</i> |

Warm-Season Grasses:

- | | |
|--------------------|--------------------------------|
| bahiagrass | <i>Paspalum notatum</i> |
| bermudagrass | <i>Cynodon dactylon</i> |
| buffalograss*** | <i>Buchloe dactyloides</i> |
| carpetgrass | <i>Axonopus affinis</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', 'biljart', 'CF-2', 'enjoy', 'HF-93', 'highlight', 'ivalo', 'Jamestown', 'kokei', '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 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 11.5 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.

Refer to back panel of bag for further Directions for Use



905432

Net Weight: 50 lbs. (22.67 kg)

TCS GrowStar™ Dimension* 0.10% + Fertilizer

Application Directions for Turf

Apply Dimension* 0.10% + Fertilizer 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 Dimension 0.10% + Fertilizer as single or sequential application at 250 to 500 pounds (0.25 to 0.5 lb active ingredient) per acre. Applicators may choose to make a single application or sequential applications at 250 to 500 pounds per acre at 5 to 10 week 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, 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 a few days after mowing and delay mowing again for a few 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 500 lb (0.5 lb active ingredient) per acre (11.5 lb per 1000 sq ft) per application.
- Do not** apply more than 6 times per year and do not apply more than 1500 lb (1.5 lb active ingredient) per acre (34.5 lb per 1000 sq ft) per year if using split or sequential applications.
- To minimize the potential for turfgrass injury do not make additional applications within four weeks of a previous application.
- In the state of New York, this product may be applied only by commercial applicators at no more than 500 lb (0.5 lb active ingredient) per acre (11.5 lb per 1000 sq ft) per year. Use of this product in Nassau and Suffolk counties of New York is prohibited.

Control of Crabgrass

Pre-emergence and Early Post-emergence Applications in Spring (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 250 to 500 pounds (0.25 to 0.5 lb active ingredient) per acre.
- This product also provides "early postemergence" control of crabgrass in late spring or early summer if applied 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 250 to 500 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 (late winter through early summer), this product will also control or suppress the following weeds:

Grasses		Broadleaf Weeds	
barley	<i>Hordeum</i> spp.	bittercross [†]	<i>Cardamine</i> spp.
barnyardgrass	<i>Echinochloa crus-galli</i>	carpetweed	<i>Mollugo verticillata</i>
bluegrass, annual	<i>Poa annua</i>	chickweed [†]	<i>Stellaria</i> spp.
brome	<i>Bromus</i> spp.	geranium, Carolina [†]	<i>Geranium carolinianum</i>
crabgrass, large	<i>Digitaria sanguinalis</i>	henbit	<i>Lamium</i> spp.
crabgrass, smooth	<i>Digitaria ischaemum</i>	knowweed, prostrate	<i>Polygonum aviculare</i>
crabgrass, Southern	<i>Digitaria ciliaris</i>	lespedeza, common [†]	<i>Lespedeza striata</i>
crowfootgrass [†]	<i>Dactyloctenium aegyptium</i>	marestail	<i>Conyza canadensis</i>
dalisgrass (seedling)	<i>Paspalum dilatatum</i>	medic, black	<i>Medicago lupulina</i>
goosegrass	<i>Eleusine indica</i>	mustard	<i>Brassica</i> spp.
foxtail, green	<i>Setaria Verdi</i>	oxalis, buttercup	<i>Oxalis pes-caprae</i>
foxtail, yellow	<i>Setaria faberi</i>	pineappleweed [†]	<i>Matricaria matricarioides</i>
kikuyugrass [†]	<i>Pennisetum clandestinum</i>	pigweed, redroot	<i>Amaranthus retroflexus</i>
oats, wild	<i>Avena fatua</i>	parsley-piert [†]	<i>Alchemilla arvensis</i>
ryegrass (annual & perennial)	<i>Lolium</i> spp.	purslane, common	<i>Portulaca oleracea</i>
sanbur	<i>Cenchrus</i> spp.	rocket, London	<i>Sisymbrium irio</i>
smutgrass	<i>Sporobolus indicus</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:

bluegrass, annual	<i>Poa annua</i>
bittercross	<i>Cardamine</i> spp.
chickweed	<i>Stellaria</i> spp.
henbit	<i>Lamium</i> spp.
geranium, 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

Dimension 0.10% + Fertilizer, 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 Dimension 0.10% + Fertilizer 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 Dimension* 0.10% + Fertilizer 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. Check equipment frequently to verify calibration and proper functioning.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risk of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund or purchase price paid. To the extent permitted by law, otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

Warranty Disclaimer

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in strict accordance with the directions, subject to the inherent risk set forth below. To the extent permitted by law, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risk associated with the use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the Seller. To the extent permitted by law, all such risks shall be assumed by Buyer.

Limitations of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Seller's election, on of the following:

- Refund of purchase price paid by the buyer or user for product bought, or
- Replacement of amount of product used.

To the extent permitted by law, seller shall not be liable for losses or damages resulting from handling or use of this product unless Seller is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Seller be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risk of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the Seller or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

Information concerning the raw materials contained in this product can be obtained by writing to: Turf Care Supply LLC, Attn: EHS Dept., 50 Pearl Road Suite 200, Brunswick, OH, 44212 referring to the item number found on this bag.

If this product is being sold in a state requiring the publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: <http://www.aapfco.org/metals.htm> or by calling 1-877-220-1014.

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