



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

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100 Independence Mall West
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OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAR 30 2000

Dear Dr. Tillman:

Subject: Dimension[®] 2 F.G. Turf and Ornamental Herbicide
EPA Registration No. 707-247
Application and Your Letter Dated March 15, 2000,
Requested Amendments To Labeling

The proposed labeling amendments requested in the subject application to amend the registration of "Dimension 2 F.G. Turf and Ornamental Herbicide" has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, provided that you:

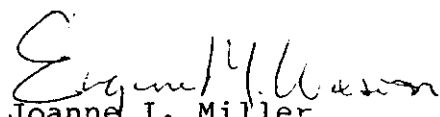
1. Move the front panel "Notice" in regard to sales of this product to the "Conditions of Sales and Warranty" section on the next page, as the first statements. Then, move the "Conditions of Sales and Warranty" section to the end of the label, or before the "Direction of Use" section. It must not be placed under the "Direction of Use" section.
2. Revise the restrictions for use in New York State on pages 3, 4 and 5, highlighted in yellow, to read:
"In New York State, this product may only be used by Professional Applicators at no more than 44 lbs. per acre (16.7 ounces/1000 sq. ft.), (0.5 lb. active ingredient per acre) per year; and is prohibited from use in Nassau and Suffolk counties."
3. Use the word dosage on page 5 to replace the word "disages" in the "Use Rates" section.

- 4. Submit one (1) copy of the final printed labeling before you release the product for shipment under the subject amended labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

for 
 Joanne I. Miller
 Product Manager (23)
 Herbicide Branch
 Registration Division (7505C)

Enclosure

MZB
1/19/00-2/29/00 3/14/00



[®]**DIMENSION 2 F.G.**

Turf and Ornamental HERBICIDE

Dimension 2 F.G. is a selective herbicide that provides control 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 interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds

In New York State, this product may only be used by Professional Applicators at no more than 44 lbs. per acre per year (0.5 lb. active ingredient) and is prohibited from use in Nassau and Suffolk Counties.

ACTIVE INGREDIENTS

*Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester ----- 2.1%

INERT INGREDIENTS ----- 97.9%

TOTAL ----- 100.00%

*This product contains 1 pound of the active ingredient, dithiopyr, per 50 pound bag.
Product protected by U.S. Patent No. 4,692,184. Other patents pending.

EPA Reg. No. 707-247

Read the entire label before using this product.
Use only according to label instructions.

**ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 30 2000**

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
707-247**

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID: IF IN EYES- Immediately flush with plenty of water. Get medical attention if irritation persists.
IF INHALED- Remove individual to fresh air. Seek medical attention if breathing difficulty develops.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION!
CAUSES EYE IRRITATION.
HARMFUL IF INHALED.

- Avoid contact with eyes or clothing.
- Avoid breathing dust.
- Wash thoroughly with soap and water after handling.
- Remove contaminated clothing and wash before reuse.
- Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

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: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

DIRECTIONS FOR USE

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

CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

STORAGE AND DISPOSAL

STORAGE: Store this product only in its original container in a dry, cool, secured storage area. Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

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

EMPTY CONTAINER DISPOSAL: Do not reuse bag. Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

GENERAL INFORMATION FOR TURF USE

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

USE PRECAUTIONS

Turfgrass Safety

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

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

Cool-Season Grasses

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

- Agrostis palustris*
- Poa pratensis*
- Festuca rubra*
- Festuca arundinacea*
- Lolium perenne*

Warm-Season Grasses

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

- Paspalum notatum*
- Cynodon dactylon*
- Buchloe dactyloides*
- Axonopus affinis*
- Eremochloa ophiuroides*
- Pennisetum clandestinum*
- Stenotaphrum secundatum*
- Zoysia japonica*

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

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

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

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

NOTE: It is not possible to evaluate all turfgrass varieties for tolerance to DIMENSION 2 F.G Turf and Ornamental Herbicide. It is suggested that the user evaluate the response of turfgrass varieties to this product 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 with this product should be delayed until 12 weeks from the time of application. *Reseeding, overseeding or sprigging before 12 weeks after application may prevent establishment of desirable turfgrasses.*

When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed.

If overseeding with perennial ryegrass in the fall, overseed 8 weeks or later after a single application.

For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed to soil contact.

Other Use Precautions

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

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

- **DO NOT** use clippings from treated turf for mulching around vegetables or fruit trees.
- Keep people and pets off treated areas until dust has settled.

APPLICATION DIRECTIONS

Control of Crabgrass

Preemergence and Early Postemergence Control.

- This product provides "preemergence" control of crabgrass (including the large, smooth, and southern species) when applied prior to the emergence of crabgrass from the ground in established lawns and ornamental turfs.
- It can also provide "early postemergence" control of crabgrass. Postemergence crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally corresponds to the time when you can first see the crabgrass plants in the lawn or turf. The practical benefit of this product's early postemergence activity is that it can give the user a 2-4 week longer period of time to make applications to control crabgrass.

Application Frequency and Timing.

- This product may be applied as a single application or as a split application for crabgrass control in the spring, summer, or fall.
- **DO NOT** apply more than 8.8 oz. of this product/1000 sq. ft. per application, and no more than 13 oz. of this product/1000 sq. ft. per year.
- In New York State, this product may only be used by Professional Applicators at no more than 4.4 lbs. per acre per year (0.5 lb. active ingredient) and is prohibited from use in Nassau and Suffolk Counties.

Spring Applications.

- For single applications made in the spring or early summer, this product should be applied at the appropriate rate corresponding to one of the control programs listed in Table 1 below, depending on the user's location, the turfgrass mowing height, and whether the use is preemergence or early postemergence at the time of the application. The duration of residual weed control provided by this product is directly related to the total rate applied, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region.
- Use Program 1 (given in Table 1, below) for preemergence control at sites where the turfgrass is cut high (e.g., homeowner lawns). This program provides 3-5 months of preemergence crabgrass control. This program should not be used for early postemergence crabgrass control.

- Use Program 2 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has not been conducted during the previous year. This program provides 4-6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass.
- Where split fertilizer applications are recommended, a rate in Table 1 may be applied in two applications made 6-10 weeks apart and prior to crabgrass emergence.

Table 1: Recommended Application Use Rates For Crabgrass*
(oz. of product /1000 sq. ft.)

PROGRAM USE (turfgrass cut)	1 Preemergence (high)	2 Preemergence (low) Postemergence
REGION		
North	2.2 (.125 lb. ai/acre)	4.4 (.250 lb. ai/acre)
Transition	3.2 (.183 lb. ai/acre)	6.4 (.366 lb. ai/acre)
South	4.4 (.250 lb. ai/acre)	8.8 (.500 lb. ai/acre)
Coastal South	6.4 (.366 lb. ai/acre)	8.8**(.500 lb. ai/acre)

Fall Applications.

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

Tips for Improved Control.

- For best results, apply this product within a few days after mowing and delay mowing again for a few days after the application.
- When treated lawn or ornamental turf areas are watered or receive significant rainfall within a few days after application of this product, improved weed control may result.
- Use of split (half-rate) applications spaced 6-8 weeks apart may provide improved weed control.

Table 2: Recommended Application Use Rates For Fall Applications
(oz. of product /1000 sq. ft.)

REGION	Preemergence
North	6.4
Transition	8.8*
South	8.8*
Coastal South	8.8*

*DO NOT apply more than 8.8 oz. of this product/1000 sq. ft. per application, and no more than 26.4 oz. of this product/1000 sq. ft. per year.
In New York State, this product may only be used by Professional Applicators at no more than 44 lbs. per acre per year (0.5 lb. active ingredient) and is prohibited from use in Nassau and Suffolk Counties.

Postemergence control is limited; see "Crabgrass Control" and "Precautions" sections above. Regions include areas listed below.

- North: all other areas.
- Transition: DE, KS, KY, MD, MO, NJ, VA; southeastern PA, southern areas of IL, IN, OH, & coastal areas of CT, NY, & RI.
- South: AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN, & TX .
- Coastal South: HI, FL, & southern coastal areas of AL, GA, LA, MS, NC, SC, & TX.

**May require split or sequential applications for full control.

7/16

Control of Other Grass and Broadleaf Weeds

Spring Applications

Used as directed for crabgrass control in the spring (Table 1), this product will also control or suppress the following weeds when applied prior to their emergence:

- | | |
|--------------------------------|--|
| barnyardgrass | lespedeza (common) |
| bluegrass (annual, roughstalk) | oxalis (buttercup, creeping & yellow woodsorrel) |
| crowfootgrass | |
| foxtail (yellow & green)* | purslane (common) |
| goosegrass | speedwell (corn) |
| kikuyugrass | spurge (prostrate & spotted) |
| ryegrass (annual & perennial) | |
| smutgrass | |
- *Also controlled at the Program 2 rates.

Fall Applications

Used as directed for late summer or early fall use, for crabgrass control through the early part of the next spring (Table 2), this product will also control or suppress the following weeds when applied prior to their emergence:

- | | |
|--------------------------------|---------------------|
| bluegrass (annual, roughstalk) | geranium (Carolina) |
| bittercress | parsley-piert |
| chickweed | pineappleweed |
| henbit | shepherdspurse |

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Before each application, calibrate the spreader according to the equipment manufacturer's directions for adjusting the spreader settings such that the spreader delivers the appropriate application rate recommended above. Apply this product uniformly over the lawn or ornamental turf area. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous direction. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and applying uniform distribution of granules.

GENERAL INFORMATION -LANDSCAPE ORNAMENTALS

DIMENSION 2 F.G Turf and Ornamental Herbicide provides preemergence control of listed annual grass and broadleaf weeds in landscape ornamentals. It may be applied to soil surfaces or mulch where ornamental plants are grown for aesthetic purposes in ornamental gardens, parks, golf courses and residential properties. Ornamental plants on this label have shown tolerance to DIMENSION 2 F.G. when applied as directed. It is impossible, however, to evaluate tolerance for on all ornamental plant species or varieties or under all possible growing conditions. Under your growing conditions, a limited area involving only a few plants should be treated for tolerance evaluation prior to large-scale applications.

USE RATES

Apply DIMENSION 2 F.G. Turf and Ornamental Herbicide with a properly calibrated spreader which will assure accurate, even particle distribution. This product may be applied as a single application or as a split application. Refer to the following table for product disages when treating a small area.

DO NOT apply more than 8.8 oz. of this product/1000 sq. ft. per application, and no more than 13 oz. of this product/1000 sq. ft. per year.

In New York State, this product may only be used by Professional Applicators at no more than 44 lbs. per acre per year (0.5 lb. active ingredient) and is prohibited from use in Nassau and Suffolk Counties..

Pounds Product/Acre	Ounces Product/1000 Square Feet	Ounces Product/100 Square Feet
24	8.8	0.88 (25 grams)

APPLICATION TIMING AND RECOMMENDATIONS

DIMENSION 2 F.G. Turf and Ornamental Herbicide is a preemergence herbicide that will not control established weeds. Make applications prior to weed seed germination or mulch or to bare ground. The best weed control is obtained when applied to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, control existing vegetation by hand weeding, cultivation or with a postemergence herbicide. Once an application of this product has been made, do not disturb the soil surface as the herbicide barrier will be broken.

PRECAUTIONS

- Only apply this product to established ornamentals.
- Do not apply this product directly to bare root of ornamental plants as injury may result.
- Do not incorporate this product into soil. Dilution of active ingredient and possible injury to plant roots may occur.
- Do not apply to soil around ornamental plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, winter injury, injury from previously applied pesticides or injury due to insects, nematodes or disease.
- To avoid foliar damage to ornamentals, irrigate immediately after application to remove herbicide particles from the foliage.
- Do not apply under conditions that would affect product distribution. Wind could affect distribution and move product onto sensitive species. Uneven product distribution will result in uneven weed control.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.

TOLERANT ORNAMENTALS

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials. However, this product has not been tested on all cultivars of each species or under all possible growing conditions.

Follow directions given above to determine plant tolerance under your growing conditions prior to large scale use.

COMMON NAME	BOTANICAL NAME	TOLERANT CULTIVARS
Abelia, Dwarf	<i>Abelia X grandiflora</i>	Nana
Ajuga	<i>Ajuga reptans</i> <i>Ajuga genevensis</i>	Bronze 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>	

Azaléa	<i>Rhododendron spp.</i>	Brilliant 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
Azalea, Flame	<i>Rhododendron calendulaceum</i>	
Azalea, Kirishima		
Bamboo, Heavenly		
Barberry	<i>Berberis thunbergii</i>	Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Basket flower	<i>Gaillardia grandaflora</i>	
Bearberry (common)	<i>Arctostaphylos uva-ursti</i>	Massachusetts
Bee Balm	<i>Monarda didyma</i>	
Begonia	<i>Begonia spp.</i>	
Birch, River	<i>Betula nigra</i>	
Blackeyed Susan	<i>Rudbeckia hirta</i>	Goldstrum
Blanket Flower	<i>Gaillardia spp.</i>	
Blueberry*	<i>Vaccinium spp.</i>	Bluecrop Blue Jay Jersey North Blue Northland
Bottlebrush	<i>Callistemon citrinus</i>	
Boxwood, Japanese		Japonica
Boxwood, Weller	<i>Buxus sempervirens</i>	
Broom	<i>Cytisus spp.</i> <i>Genista pilosa</i>	Moonlight Vancouver Gold
Bugle Carpet		
Camellia	<i>Camellia japonica</i> <i>Camellia sasangua</i>	Debutante Mathotiana Supreme Chansonette
Candy Tuft	<i>Iberis spp.</i>	Snow White
Carex, Variegated	<i>Carex</i>	
Cedar, Red	<i>Juniperus virginiana</i>	
Celosia	<i>Celosia spp.</i>	
Centaurea	<i>Centaurea montana</i>	Scarlet Plumosa
Cockscomb, Plumosa	<i>Celosia cristata</i>	Red Kewpie
Coleus	<i>Coleus blumei</i>	

Colutmbine	<i>Agui legre spp.</i>	
Copper leaf	<i>Acalypha wilkesiana</i>	
Coreopsis	<i>Coreopsis spp.</i>	Moonbeam,
Corn Flower	<i>Centaurea spp.</i>	
Cotoneaster	<i>Cotoneaster apiculatus</i>	
Coyotebrush	<i>Baccharis pelularis</i>	
Cycads	<i>Cycads revoluta</i>	
Cypress, Bald	<i>Taxodium distichum</i>	
Cypress, Italian	<i>Cupressus sempervirens</i>	Glauca
Cypress, Japanese False	<i>Chamaecyparis obtusa</i>	Gracilis
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	
Daffodil	<i>Narcissus spp.</i>	King Alfred
Daylilly	<i>Hemerocallis spp.</i>	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilsonis Yellow
Dianthis (Sweet William)	<i>Dithanthus spp.</i>	
Delphinium	<i>Delphinium spp.</i>	Magic fountain
Dogwood	<i>Cornus florida</i>	
Dogwood, American	<i>Cornus sericea</i>	Flavarimaea
Douglas Fir	<i>Pseudotsuga menziesii</i>	
Dusty Miller	<i>Senecio cineraria</i>	
Elm, Drake	<i>Ulmus parvifolia</i>	
Euonymus	<i>Euonymus fotunei</i>	Argenteo-variegata Auereo-marginata Colorata Emerald Gaiety Emerald n Gold Gold Edge Gold Princess Silver King Tricolor Vegetus
Fan Palm, European	<i>Chamaerops humilis</i>	
Fan Palm, Mexican	<i>Washingtonia robusta</i>	
Fern (various)	<i>Asparagus spp.</i>	
Fescue	<i>Festuca glauca</i>	
Fetterbush	<i>Leucothoe fontiana</i>	Rainbow
Ficus	<i>Ficus retusa</i>	Nitidia
Fir Fraser	<i>Abies fraseri</i>	
Forsythia	<i>Forsythia X intermedia</i> <i>Spring Glory</i>	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
Fuchsia	<i>Fuchsia spp.</i>	
Galium	<i>Galium odoratum</i>	
Gardenia	<i>Gardenia jasminoides</i>	Mystery Radicans
Geranium	<i>Pelargonium X hortorum</i>	
Gum	<i>Eucalyptus citriodora</i>	
Hawthorn	<i>Crataequs spp.</i>	Cockspur White Crimson Cloud Enchantress Jack Evans Washington White
Heather, Twisted	<i>Erica cinerea</i>	Mediterranean Pink

Hemlock, Canada	<i>Tsuga canadensis</i>	
Hibiscus	<i>Hibiscus spp.</i>	Blue Bird Brilliant Hula Girl
Holly	<i>Ilex spp.</i> <i>Ilex X meserveae</i> <i>Ilex X attenuata</i>	Blue Boy Blue Girl Burfordii China Girl Compacta Forsteri Hellerie Japanese Northern Beauty Needlepoint Nellie R. Stevens Savanah
Holly, Chinese	<i>Ilex cornuta</i>	
Holly, Japanese	<i>Ilex crenata</i>	
Holly, Yaupon	<i>Ilex vomitoria</i>	
Honeysuckle	<i>Lonicera japonica</i>	Claveyis Dwarf Halliana Tatarian Canadian White Zebelli Red Hosta
Hosta	<i>Hosta spp.</i> <i>Hosta lancifolia</i>	Albo Marginata
Ice Plant	<i>Carpobrotus edulis</i>	
Impatiens	<i>Impatiens spp.</i>	
Iris	<i>Iris spp.</i>	Dwarf Blue Wedgewood
Ivy, English	<i>Hedera helix</i>	Bulgaria Thorndale
Jasmine, Asian	<i>Trachelopermam asiaticum</i>	
Juniper	<i>Juniperus spp.</i>	Arcadia Armstrong Bar Harbor
	<i>Juniperus horizontalis</i>	Blue Chip Blue Pacific Blue Rug

	<i>Juniperus horizontalis</i>	Blue Star Broadmoor Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Fruitlandi Green Gold Tip Hetzi Hughes Manhattan Blue Parsoni Pfitzeriana Plumosa Prince of Wales Procumbens Dwarf San Jose Sargent Blue Sargent Green Scandia Scopulorum Moonglow Scopulorum Skyrocket Spartan
	<i>Juniperus chinensis</i>	Tamariscifolia
	<i>Juniperus sabina</i>	Weberi Youngstown Yukon Belle
King Palm	<i>Archontophoenix cunninghamiana</i>	
Laurel, Australian	<i>Pittosporum tobira</i>	
Laurel, Mountain	<i>Kalmia latifolia</i>	
Leucothoe	<i>Leucothoe fontanesiana</i>	
Ligustrum, Japanese	<i>Ligustrum japonicum</i>	
Lily, African	<i>Agapanthus africanus</i>	Albus Peter Pan
Lily, African Blue		
Lily of the Valley	<i>Pieris japonica</i>	Mt. Fire
Lilyturf	<i>Liriope muscari</i>	Evergreen Giant Lilac Beauty Majestic Monroe White Variegata
Liriope, Green	<i>Liriope spicata</i>	
Maple, Japanese	<i>Acer japonicum</i>	
Maple, Norway	<i>Acer platanoides</i>	
Maple, Red	<i>Acer rubrum</i>	
Maple, Silver	<i>Acer saccharinum</i>	
Maple Sugar	<i>Acer saccharum</i>	
Marigold	<i>Tagetes patula</i>	Honeycomb Variegata Wheeleris Dwarf
Mock Orange*	<i>Philadelphus spp</i>	Golden Snowflake Double White
Mopndo Grass	<i>Ophiopogon japonicus</i>	
Moss Rose	<i>Portulaca grandiflora</i>	Sunnyside

Myrtle, Crape	<i>Lagerstoemia indica</i>	Faurei Langer Muskogee Standard Pink
Myrtle, Wax	<i>Myrica cerifer</i>	
Nadina	<i>Nadina domestica</i>	Compacta Nana
Narcissus	<i>Narcissus spp.</i>	
Oak, Laurel	<i>Quercus laurifolia</i>	
Oak, Pin	<i>Quercus palustris</i>	
Oak, Red	<i>Quercus rubra</i>	
Oak, Southern L	<i>Quercus virginiana</i>	
Oak, Willow	<i>Quercus phellos</i>	
Oleander	<i>Nerium oleander</i>	Hardy Red Petite Pink Sister Agnes
Oteospermum	<i>Osteospermum fruticosum</i>	Wirligig
Pachysandra	<i>Pachysandra terminalis</i>	
Palm, Bangalow		
Pampas Grass	<i>Cortadaria 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> <i>Pieris Taiwanensis</i>	
Pine, Japanese Black	<i>Pinus thumbergiana</i>	
Pine, Loblolly	<i>Pinus teada</i>	
Pine, Longleaf	<i>Pinus palustris</i>	
Pine, Mugho	<i>Pinus mugho</i>	
Pine, Scotch	<i>Pinus sylvestris</i>	
Pine, Slash	<i>Pinus elliottii</i>	
Pine, Swiss Mt.	<i>Pinus mugo</i>	
Pine, Virginia	<i>Pinus virginiana</i>	
Pine, White	<i>Pinus strobus</i>	
Pineapple, Guava	<i>Feijoa fellowaiana</i>	
Pittosporum, Japan		
Potentilla	<i>Potentilla nepalensis</i> <i>Potentilla fruticosa</i>	Abbotswood
Privet	<i>Ligustrum japonicum</i>	Golden Vicary Regal Texanum Wax Yellow Tipped
Privet, Glossy	<i>Ligustrum lucidum</i>	
Pyracantha	<i>Pyracantha koidzumii</i>	Gnome Lalandei Victory
Queen Palm	<i>Arecastrum rammanzoffianum</i>	
Quince, Japanese*		

Rhododendron	<i>Rhododendron spp</i>	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 spp.</i>	Snowcap
Rodie Max (Rosebay)	<i>Rhododendron maximum</i>	
Rose	<i>Rosa banksiaae</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 spp.</i>	
Sourwood	<i>Oxydendrum arboreum</i>	
Spiraea	<i>Astilbe X arendsii</i>	Fanall
Spiraea	<i>Spiraea spp.</i>	Anthony Waterer Red Dolchica Froebeli Pink Goldenflame Red Snowmound White Van Houtte White
Spiraea, Garland	<i>Spiraea spp.</i>	
Spruce, Black Hills	<i>Picea glauca</i>	
Spruce, Colorado Blue	<i>Picea pungens</i>	
Spruce, Norway	<i>Picea abies</i>	
Spruce, White	<i>Picea glauca</i>	Conica
Sweetflag, Grassyy-Le		
Sweetgum	<i>Liquidambar styraciflua</i>	
Sycamore	<i>Platanus occidentalis</i>	
Tree Fern (Tiki Fern)	<i>Asparagus virgatus</i>	
Trumpet Flower, Evening	<i>Gelsemium sempervirens</i>	
Tulip	<i>Tulip, spp</i>	Apeldoorn
Verbana, Shrub	<i>Lantana sellowiana</i>	
Vervain	<i>Verbena spp.</i>	St. Paul
Viburnum	<i>Viburnum spp.</i>	American Cranberry Bush Arrowood Common Snowball European Cranberry Bush Linden Mohican Wright
Vinca (Periwinkle)	<i>Vinca minor</i>	
Windmill Palm	<i>Trachycarpus fortunei</i>	
Xylosma	<i>Xylosma congestum</i>	
Yarrow	<i>Achillea spp.</i>	
Yaupon	<i>Ilex vomitoria</i>	Dwarf
Yew	<i>Taxus cuspidatra</i> <i>Taxus X media</i>	Denisiformis

*Ornamental species only: DO NOT USE ON FOOD PRODUCING TREES AND ORNAMENTALS

WEEDS CONTROLLED

Used as directed, DIMENSION 2 F.G. Turf and Ornamental Herbicide will control or suppress the following annual grass and broadleaf weeds when applied prior to their emergence. This product will not control established grasses, except for crabgrass in early stages of development, and broadleaf weeds, therefore, the area to be treated should be free of weeds prior to application.

GRASSES

- barley
Hordeum spp.
- barnyardgrass
Echinochloa crus-galli
- bluegrass, annual
Poa annua
- brome
Bromus spp.
- crabgrass, large
Digitaria sanguinalis
- crabgrass, smooth
Digitaria ischaemum
- crabgrass, Southern
Digitaria ciliaris
- crowfootgrass
Dactyloctenium aegyptium
- dallisgrass (seedling)
Paspalum dilatatum
- goosegrass
Eleusine indica
- foxtail, green
Setaria verdi
- foxtail, yellow
Setaria faberi
- kikuyugrass
Pennisetum clandestinum
- oats, wild
Avena fatua
- ryegrass (annual & perennial)
Lolium spp.
- smutgrass
Sporobolus indicus

BROADLEAF WEEDS

- bittercress
Cardamine spp.
- carpetweed
Mollugo verticillata
- chickweed
Stellaria spp.
- geranium, Carolina
Geranium carolinianum
- henbit
Lamium spp.
- knotweed, prostrate
Polygonum aviculare
- lespedeza, common
Lespedeza striata
- marestail
Conyza canadensis
- medic, black
Medicago lupulina
- mustard
Brassica spp.
- oxalis, buttercup
Oxalis pes-caprae
- pineappleweed
Matricaria matricarioides
- pigweed, redroot
Amaranthus retroflexus
- parsley-piert
Alchemilla arvensis
- purslane, common
Portulaca oleracea
- rocket, London
Sisymbrium irio
- shepherdspurse
Capsella bursa-pastoris
- speedwell, corn
Veronica arvensis
- spurge, garden
Euphorbia hirta
- spurge, prostrate
Euphorbia humistrata
- spurge, spotted
Euphorbia maculata
- woodsorrel, creeping
Oxalis corniculata
- woodsorrel, yellow
Oxalis stricta

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type spreaders designed to apply granular herbicides. Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Before each application, calibrate the spreader according to

