


52287-12

09/28/2007

1/12

 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Reregistration</p> <p>(under FIFRA, as amended)</p>	EPA Reg. Number: 52287-12	Date of Issuance: 28 SEP 2007
	Term of Issuance: Unconditional	
Name of Pesticide Product: Fertilizer with Starteem #3		
Name and Address of Registrant (include ZIP Code): Harrell's Inc. 300 W. Fifth Street, #411 Charlotte, NC 28202		
<p><small>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</small></p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided that you :</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data. 		
Signature of Approving Official: <i>Joanne I. Miller</i> Joanne I. Miller, Product Manager 23 Herbicide Branch, Registration Division (7505P)	Date: 28 SEP 2007	

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EPA Reg # 52287-12

2. Make all of the changes detailed in the attached document "Summary of Comments on Harrell's Fertilizer with Starteema # 1"
3. Submit final labeling for this product **within 30 days** of the date of this letter.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions you call Tobi Colvin-Snyder at 703-305-7801.

Summary of Comments on HARRELL'S FERTILIZER WITH STARTEEMâ # 1

Page: 1

Author: tsnyder
Subject: Replacement Text
Date: 8/24/2007 3:52:02 PM

Ties

Author: tsnyder
Subject: Inserted Text
Date: 8/24/2007 3:51:46 PM
T Use on Lawns and Around Ornamental Plants on

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:00:14 PM
TThis is confusing, since the product can only be applied by professional applicators. Personnel who are not professional applicators cannot apply it even if they work at these sites, and the use sites are listed above.

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:00:55 PM
Tredundant - use sites listed above

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:15:08 PM
T

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:03:47 PM
TMove these statements to the appropriate sections.

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Page: 2

Author: tsnyder
Subject: Highlight
Date: 8/24/2007 4:04:47 PM
T See changes on first page.

Author: tsnyder
Subject: Highlight
Date: 8/24/2007 4:04:24 PM
T

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:28:05 PM
T

Author: tsnyder
Subject: Replacement Text
Date: 8/24/2007 4:28:46 PM
T and shoes

Author: tsnyder
Subject: Inserted Text
Date: 8/24/2007 4:21:52 PM
T including shrimp and oysters

Author: tsnyder
Subject: Inserted Text
Date: 8/24/2007 4:21:30 PM
T freshwater marine and estuarine

Author: tsnyder
Subject: Inserted Text
Date: 8/24/2007 4:20:50 PM
T extremely

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:26:57 PM
T

Author: tsnyder
Subject: Replacement Text
Date: 8/24/2007 4:19:10 PM
T plus

Author: tsnyder
Subject: Cross-Out
Date: 8/24/2007 4:17:02 PM
T


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Page: 3

Author: tsnyder
Subject: Inserted Text
Date: 8/24/2007 5:26:07 PM

T For application to turf, for all products containing benfluralin, make no more than 2 applications per year, and apply no more than 6 lbs ai/A benfluralin per year to cool season turf or 3 lbs ai/A benfluralin per year to warm season turf. For landscape ornamentals, make no more than 2 applications per year of this product and/or any product containing benfluralin. For landscape ornamentals, do not apply more than 4 lbs ai lb ai benfluralin per year. For fall treatments on or near ornamental bulbs, do not make more than 2 applications per year and do not apply more than 1.5 lb ai/A benfluralin per year to coarse soils or 2.25 lbs ai/A benfluralin per year to medium and fine soils. For treatment on or near ornamental bulbs made February through March, do not make more than 3 applications of products containing benfluralin and do not apply more than 2.25 lbs/A benfluralin per year.

Author: tsnyder
Subject: Note
Date: 8/29/2007 1:34:40 PM

 There are higher maximum application rates for field and container grown ornamentals than landscape ornamentals specified in the benfluralin RED. If use on these sites is desired, a revised label with appropriate restrictions should be submitted.

Author: tsnyder
Subject: Inserted Text
Date: 8/29/2007 1:32:15 PM

T Other than crops (sod farms) listed on this labeling, do not plant or transplant crops in the treated area for at least 12 months following an application of this product. Do not graze livestock in treated areas. Not for use on field-grown or container-grown ornamentals.

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FERTILIZER with STARTEEM® # 3

A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, CORPORATE LAWNS and SOD FARMS

50 lb. Bag Treats up to 10,870 Sq. Ft.

FOR SALE TO AND USE BY PROFESSIONAL APPLICATORS ONLY. NOT FOR SALE TO OR USE BY HOMEOWNERS, CONSUMERS. FOR USE ON OR BY GOLF COURSES, SOD FARMS, COMMERCIAL NURSERIES, TURF MANAGEMENT FIRMS, MUNICIPAL, FEDERAL, AND CORPORATE PARKS, LAWNSCAPES, CEMETERIES, AND GROUNDS MAINTENANCE PERSONNEL.

STARTEEM® is a pre-emergent weed control product plus a quality fertilizer for use on varieties of Perennial Bluegrass, Bentgrass, Bermudagrass, Buffalograss, Perennial Ryegrass, St. Augustinegrass, Seashore Paspalum, Tall Fescue and Zoysiagrass.

Also for use around Ornamental Shrubs, Vines, Trees, & Ground Covers

ACTIVE INGREDIENTS:

Oxadiazon [CAS No. 19666-30-9].....	1.00%
Benfluralin [CAS No. 1861-40-1].....	0.25%
Trifluralin [CAS No. 1582-09-8].....	0.25%
OTHER INGREDIENTS:	98.50%
Total	100.00%

EPA Reg. No. 52287-12

EPA Est. No. 52287-FL-1

<p>GUARANTEED FERTILIZER ANALYSIS</p> <p>Total Nitrogen (N).....XX%</p> <p>Ammoniacal Nitrogen.....XX%</p> <p>Urea Nitrogen.....XX%</p> <p>Available Phosphoric Acid (P₂O₅).....XX%</p> <p>Soluble Potash (K₂O).....XX%</p> <p>Derived from Ammonium Phosphate, Urea, and Muriate of Potash</p>	<p>ACCEPTED</p> <p>with COMMENTS</p> <p>In EPA Letter Dated:</p> <p>SEP 28 2007</p> <p>Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.</p>
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KEEP OUT OF REACH OF CHILDREN

CAUTION

52287-12

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

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 ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. ~~Wear long-sleeved shirt and long pants, socks and shoes. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Do not graze livestock in treated areas. Do not contaminate water, food, or feed by storage or disposal.~~

FERTILIZER with STARTEEM® # 3

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A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, CORPORATE LAWNS and SOD FARMS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Loaders, applicators, and other handlers must wear ~~protective eyewear~~; long-sleeved shirt and long pants; ~~waterproof gloves, chemical resistant footwear~~ plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. 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 be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply when weather conditions favor drift from areas treated. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning equipment or disposal of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply through any type of irrigation system. Do not store or use in or around the home or home garden. Apply only as specified on this label.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, and nurseries, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear: coveralls ~~over long-sleeved shirt and long pants~~, socks, shoes, and chemical resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants only on farms, forests, nurseries or greenhouses. Observe and wear (PPE) protective eyewear, long-sleeved shirt and long pants, impervious gloves and chemical resistant footwear plus socks, when handling. Do not enter or allow other people (or pets) to enter the treated area until dusts have settled. If watering-in is required after the application - except for those people involved in the watering-in - do not enter or allow other people (or pets) to enter the treated areas until the watering-in is complete and the surface is dry. ~~Laundry exposed clothing before reuse. Thoroughly wash face and hands with soap and water after exposure and before eating or smoking.~~

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store product in its original bag, in a cool dry locked place out of reach of children. In case of spill, sweep up and use according to directions or dispose of as follows. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then 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.

Harrell's now offers the STARTEEM-SPLIT - a weed control program that finally gets the maximum pre-emergence weed control results, that you should expect with 3 active ingredients.

Controls Crabgrass, Goosegrass, Poa Annuua, Annual Sedge and many weeds as listed; On Golf Courses, Commercial Lawns, and other Athletic and/or Recreational, Ornamental Turf. If you are serious about getting rid of annual grassy and certain broadleaf weeds before they go to seed again, use STARTEEM # 1 and then STARTEEM # 2 OR for hard-to-kill weeds follow # 1 with STARTEEM # 3.

HOW MUCH TO USE AND WHEN TO APPLY THEM!

STARTEEM # 1 is to be used as the first application; STARTEEM # 2 (a different formula) is to be used as the second application of a seasonal (Split-application program) both products to be used at a rate of 200 lbs./acre (equal to 4.6 lbs. /1000 sq. ft.) STARTEEM may be applied to "established" perennial Bluegrass, Bentgrass (see restrictions), Bermudagrass, Buffalograss, Perennial Ryegrass, St. Augustinegrass, Seashore Paspalum, Tall Fescue and Zoysiagrass turf, at condominium complexes, corporate and public parks, golf courses, sod farms, athletic fields, playgrounds, and other ornamental and recreational turfgrass areas. Not for use on home lawns. The turf should be free of leaves and thatch

FERTILIZER with STARTEEM® # 3

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A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, CORPORATE LAWNS and SOD FARMS

and in condition to allow granules to reach the soil surface. Know the square footage of the area to be treated and uniformly apply using a granule spreader. Do not apply to turf when it is wet. When using, do not overlap spreader applications, especially on St. Augustinegrass since discoloration "streaking" may temporarily occur from the "doubled rate". Observe the maximum rate for St. Augustinegrass and Bentgrass of one application of each STARTEEM # 1 AND STARTEEM # 2 or # 3 per 1,000 sq. ft. per year. See below restrictions when using on Bentgrass. After applications, if rain is not expected within 24 hours, sprinkler irrigate the treated turf with up to a ¼ inch of water to get maximum weed control and quicker response from the fertilizer nutrients. STARTEEM #1, #2, and #3 must be applied prior to weed seed germination (see map of U.S.). They will not control growing weeds. See complete list of weeds that STARTEEM controls under Section for GOLF COURSES.

Pre-emergence Weed Control with the "STARTEEM® SPLIT"			
Weeds Controlled	FIRST APPLICATION STARTEEM #1 *Apply 200 lbs. product per acre equal to 4.6# / 1,000 sq. ft.	SECOND APPLICATION STARTEEM #2 or #3 Apply 60 days later at 200 lbs. per acre equal to 4.6# / 1000 sq. ft.	Directions
Crabgrass (Digitaria, spp.) Goosegrass (Bleusine indica) Field Sandbur (Cynchus incertus) Annual Sedge (Cyperus compressus) Annual Bluegrass (Poa annua spp.) (See Note below)			*Apply #1 40 to 60 days prior to weed seed germination in the late winter or early spring. Apply #2 or #3, 60 days later. Application made after May, may not be fully effective. Apply in late summer to early fall prior to weed seed germination.
Virginia Buttonweed (Diodia virginiana) Pigweed (Amaranthus spp) Florida Pusley (Richards scabra) Oxalis (Oxalis spp.) Stinging Nettle (Urtica dolca) Carpetgrass (Axonagus offinis)	Apply 200 lbs product per acre equal to 4.6# / 1,000 sq. ft.	Apply 60 days later at 200 lbs per acre equal to 4/6# / 1,000 sq. ft.	Apply in early spring prior to weed seed germination.
Fall Application for Spring Weed Control in Cool Season Turf			
Crabgrass, Goosegrass and other annual weeds as listed	Apply #1 at 200 lbs per acre equal to 4.6# / 1,000 sq. ft.	Apply #3 (60 days later) at 200 lbs. per acre equal to 4.6# / 1,000 sq. ft.	For use in Bluegrass, Bentgrass, Perennial Ryegrass and Tall Fescue. Make application in the fall after turf has become dormant. For late fall applications, seeding into treated areas should be delayed until 4 months after greenup.
Annual Bluegrass Control in Bermudagrass Fairways Overseeded with Perennial Ryegrass only			
Annual Bluegrass (Poa annua spp.)	200 lbs. / A	4.6# lbs. / 1,000 sq. ft.	Apply in late summer to early fall prior to Poa Annua spp. seed germination. Any Poa annua spp. established when this product is applied will not be controlled. It should not be applied closer than 60 days to overseeding. Do not use when Poa trivialis is present in the overseed mixture. Apply the full 200 lb. rate per acre in one application.
<p>NOTE: In many areas annual bluegrass exists in at least two biotypes or subspecies of Poa annua. The true <u>annual</u> biotype, "Poa annua spp. annua" which germinates from seed every year <u>is controlled</u> while the biotype, "Poa annua spp. raptans" which behave like a <u>perennial</u> and survives through the summer as an established plant, <u>cannot be controlled</u>. Consult the Extension service or University weed specialist in your area for more information concerning your locale.</p>			

Annual Weed Control during establishment from Sprigs of Bermudagrass, Zoysiagrass and Seashore Paspalum			
Crabgrass and Goosegrass, Annual Sedge and other annual weeds.	Apply 40-60 days before germination at 200 lbs. / per acre	Apply 200 lbs. of #3 / per acre; 60 days later.	
For Bermudagrass make application immediately prior to or immediately after sprigging. For Seashore Paspalum make application 10 to 14 days after sprigging. Applications made close to the time of sprigging may cause objectionable Seashore Paspalum injury. Disturbance of the soil surface after application may disrupt the herbicide barrier and reduce effectiveness. For best results sprinkler irrigate the "sprigged" area with up to ¼ inch water after application.			

GENERAL PRECAUTIONS AND RESTRICTIONS

A single application rate must not exceed 200 lbs of product per acre which is equivalent to 4.6 lbs of product per 1,000 sq. ft. and 2 lb of oxadiazon active ingredient per acre and 0.5 lb of benfluralin active ingredient per acre. The maximum application rate for all Starteem treatments is 3.5 lbs of oxadiazon active ingredient per acre per year and 1.25 lbs of benfluralin active ingredient per acre per year. **Not for use on home lawns.** Do not apply this product in a way that will contact workers or other persons (or pets), either directly or through drift. Only protected handlers may in the area during application. This product must be watered in as soon as possible after application. Watering-in must be performed by the commercial applicator or the commercial applicator must provide the following instructions to the owner in writing: This product must be watered in as soon as possible. Do not enter or allow others (including children or pets) to enter the treated areas (except those involved in the watering) until the watering-in is complete and the surface is dry.



FERTILIZER with STARTEEM® # 3

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A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, CORPORATE LAWNS and SOD FARMS

PRECAUTIONS IN USING: For St. Augustine grass and Bentgrass turf. DO NOT exceed the rate of one application of each STARTEEM #1 and STARTEEM #2 or #3 per 1,000 sq. ft. / year. DO NOT apply to Bentgrass turf mowed less than 3/8 inches. This product may cause discoloration of Bentgrass, Bermudagrass and St. Augustinegrass but this discoloration is temporary and normally outgrown within 2 to 3 weeks. Avoid contact with flowers and shrubs except as recommended elsewhere for ornamental plants on this label. DO NOT apply to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment except as noted above. DO NOT apply to Dichondra or Centipedegrass. DO NOT use on golf course putting greens or tees because of the varying cultural practices used.

FOR SPRING APPLICATION ON GOLF COURSES UNDER TURF MANAGEMENT

Use the STARTEEM-SPLIT application!

Weed control and better turf management can be programmed by using the "STARTEEM-SPLIT" weed control program. Starting 40 to 60 days before expected weed seed germination, apply STARTEEM #1 at a rate of 200 lbs. per acre and follow within 60 days with an application of STARTEEM #2 at the 200 lb. per acre rate. This program supplies 2.5 lbs. of Oxadiazon per acre, per year and 2.5 lbs. of the combination of the Benfen and Trifluralin per acre, per year.

If "Hard-To-Kill" weeds (as listed below) with the asterisk (*) are known to be prevalent in the turfgrass area, use STARTEEM® #3 as the second application after STARTEEM® #1 applied at 200 lbs. per acre (equal to the 4.6 lbs per 1,000 sq ft)

Controls Annual Broadleaf Weeds and Annual Grasses

Annual Bluegrass	*Evening Primrose	**Jungle Ricegrass	Sow Thistle
Annual Sedge	Fireweed	Lambsquarter	Speedwell
*Barnyardgrass	Field Sandbur	**Liverwort	Spotted Catsear
Bittercress	Foxtail; Green, Bristly	Oxalis	Spurge; Garden, Petty
Carpetweed	Fall Panicum	**Panama Paspalum	**Prostrate
Carpetgrass	Florida Pusley	Pennsylvania Smartweed	Stinging Nettle
Common Groundsel	**Galinsoga	Redroot Pigweed	*Swinecress
Common Purslane	Golden Ragwort	Sensitive Plant	Virginia Buttonweed
Crabgrass	*Goosegrass	Shepardspurse	Yellow Woodsorrel

Use the STARTEEM® #1 and STARTEEM® #2 SPLIT application for control of these weeds listed above not bearing the asterisk (). For hard-To-Kill weeds use STARTEEM #3 as second application.

NOTE: For newly seeded lawns do not apply this product until after the second or third cutting. For best turf management, place new grass seed in the fall of the year. Spring pre-emergence weed control can then be applied.

SPREADER SETTINGS

Spreader Settings for	STARTEEM® #1	STARTEEM® #2	STARTEEM® #3
Cyclone B3-Pro	#x.x	#x.x	#x.x
For Scotts Pro R-8A	#x.x	#x.x	#x.x

All STARTEEM products #1; #2; and #3 apply at 200 lbs / Acre = to 4.6# / 1,000 sq. ft.

Plan on an approximately 3 mph spreader speed to obtain best coverage. Know the exact square footage of your area before application. Incorrect application can result in turf damage or poor weed control.

FOR SPRING APPLICATION TO UNIVERSITY, FEDERAL, CORPORATE, MUNICIPAL LAWNS, CEMETERIES, PARKS, ATHLETIC FIELDS, SOD FARMS, CONDOMINIUMS, UNDER MANAGEMENT. FOR PRE-EMERGENCE WEED CONTROL, use a STARTEEM®-SPLIT PROGRAM!

STARTEEM® may be applied to "established" varieties of perennial Bluegrass, Bentgrass (see restrictions), Bermudagrass, Buffalograss, Perennial Ryegrass, St. Augustinegrass, Seashore Paspalum, Tall Fescue, and Zoysiagrass. Weed control and better turf management can be programmed by using the "STARTEEM-SPLIT" weed control program. Starting 40 to 60 days before expected weed seed germination, apply STARTEEM® #1 at a rate of 4.6 lbs per 1,000 sq. ft. and follow with a second application using STARTEEM® #2 at the same rate; within 60 days. This program supplies 2.5 lbs of Oxadiazon per acre, per year and 2.5 lbs of the combination of the Benfluralin and Trifluralin per acre, per year.

If "Hard-To-Kill" weeds, as listed below with the asterisk (*) are known to be prevalent in the area, use STARTEEM® #3 as the second application after STARTEEM® #1 applied at 200 lbs per acre (equal to the 4.6 lbs per 1,000 sq. ft.)

WHEN TO APPLY AFTER OVERSEEDING TURF

Do not apply to over-seeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

WHEN TO OVERSEED AFTER APPLICATION

This product will inhibit the germination of turf species if overseeded too soon after application. Delay overseeding or reseeding 60 to 90 days.

FERTILIZER with STARTEEM® # 3

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A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, CORPORATE LAWNS and SOD FARMS

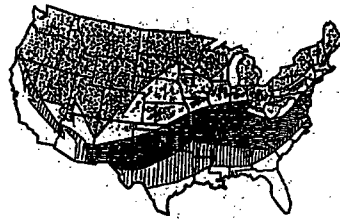
Controls Annual Broadleaf Weeds and Annual Grasses

Annual Bluegrass
Annual sedge
*Barnyardgrass
Bittercress
Carpetweed
Carpetgrass
Common Groundsel
Common Purslane
Crabgrass
*Evening Primrose
Fireweed
Field Sandbur

Fall Panicum
Florida Pusley
*Galinsoga
Golden Ragwort
*Goosegrass
**Jungle Ricegrass
Lambsquarter
**Liverwort
Oxalis
**Panama Paspalum
Pennsylvania Smartweed

Redroot Pigweed
Sensitive plant
Shepardspurse
Sow Thistle
Speedwell
Spotted Catsear
Spurge, Garden, Petty,
**Prostrate
Stinging Nettle
*Swinecress
Virginia Buttonweed
Yellow Woodsorrel

Approximate Crabgrass Seed Germination Dates in the U.S.A.



Approximate Date

■	After May 30
■	After May 10
■	After April 20
■	After March 20
□	January 1 to March 20

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

Net Weight 50 Pounds

Harrell's, Inc.
P. O. Box 807 * Lakeland, FL 33802

FERTILIZER with STARTEEM® # 3

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A PRE-EMERGENCE HERBICIDE FOR USE GOLF COURSES, NURSERIES, GARDEN CENTERS, PARKS, and MUNICIPAL, FEDERAL, CORPORATE LAWNSCAPES.

ESTABLISHED ORNAMENTALS & GROUND COVERS		ESTABLISHED ORNAMENTALS & GROUND COVERS		ESTABLISHED ORNAMENTALS & GROUND COVERS		ESTABLISHED ORNAMENTALS & GROUND COVERS	
COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Abutilon	Abutilon pictum	Heather, Scotch	Calluna vulgaris	Rose, spp.	Rose, spp.	Sweet William	Dianthus barbatus
Acacia	Acacia spp.	Heliotropium	Heliotropium arborasc	Russian Olive	Eleagnus angustifoli	Syzygium	Syzygium paniculatum
Agapanthus	Agapanthus africanis	Hemlock, Canada	Tsuga Canadensis	Sargent Cherry	Pruus sergentii	Trailing African Daisy	Osteospermum fruticosum
Allamanda, common	Allamanda cathartica	Hibiscus	Hibiscus, spp.				
Andromeda	Pieris spp.	Honeysuckle	Lonicera, spp.				
Aralia	Aralia spinosa	Holly	Ilex, spp.	Scotch Broom	Cytisus scoparius	Viburnum	Viburnum, spp.
Arborvita	Thuja spp.	Ice Plant	Carpobrotus edule	Sedum	Sedum album	Wedelia	Wedelia trilobata
Ash, Green	Frzinus pennsylvanica	Hlima	Sida fallax	Serviceberry, Saskatoon	Amelanchier ainifolia	Wisteria, Chinese	Wisteria sinensis
Azalea	Rhododendron	Ivy, Algerian	Hedera canariensis				
Baby's Brreath	Gypsophila paniculate	Ivy, English	Hedera helix	Spruce	Picea, spp.	Witchhazel, common	Hamamelis virginiana
Bald Cypress	Takodium distichum	Jasmine, Orange	Murray paniculeta	Statice	Limonium, spp.	Woodwaxen, common	Genista tinctori
Bamboo, Feathery	Bambusa vulgaris	Jasmine, Primrose	Jasminum mesnyi	St. Johnswort, Goldencup	Hpercum patulum		
Banyan, Weeping	Ficus benghalensis	Jasmine, Star	Trachelospermum jasminoides	St. Johnswort, Golden	Hypericum		
Barberry	Berberis spp.	Jasmine, Showy	Jasminum floridum	Strawberry Tree	Arbutus unedo	Wooly Thyme	Thymus pseudolanugirois
Beefsteak Plant	Acalypha wilkesiana	Juniper	Juniperis, spp.	Sumac, Staghorn	Rhus typhina	Yew	Taxus spp.
Bearberry	Arctostaphylos uva-ursi	Justica	Justice brandegeana				
Beech, European	Fagus sylvatica	Kwanzan Cherry	Prunus serrulata				
Birch, Paper	Betula papyrifera	Lamb's Ear	Stachys byzantina				
Blanket Flower	Gaillardia aristate	Lantana, Trailing	Lantana montividensis				
Blazing Star	Liatis spicate	Lapalapa	Cheirodendron, spp.				
Boxwood, Japanese	buxus microphylla	Larch, European	Larix deciduas				
Boxwood, Common	Buxus semperirens	Laurel, English	Prunus laurocerasus				
Bougainvillea	Bounganvillea spectablis	Leopards - Bane	Doronicum cordatum				
Brassaia, Dwarf	Brassaia actinophylla	Leucothoe, Coast	Leucothoe exillaris				
Buddleia	Buddleia davidii	Leucothoe, Drooping	Leucothoe fontanesia				
Bugleflower	Ajuga reptans	(catesbaei)					
Callistemon	Callistemon lanceolata	Lily of the Nile	Agapanthus, umbellatus				
Camelia, common, Jap	Camelia japonica	Lilac	Syringa, spp.				
Camelia, Sasanque	Camelia sasanqua	Littleleaf Linden	Tilia cordate				
Candytuft	Iberis sempirirons	Loquat	Eriobotrya japonica				
Carissa	Carissa macrocarpa	Magnolia	Magnolia, spp.				
Carnation	Dianthus caryophyllus	Mahonia, Grape Holly	Mahonia aquifolium				
Ceanothus	Ceanothus americanus	Money Tree	Pleomale marginata				
Cedar, Red	Juniperus virginiana	Murraea	Murraea exotica				
Cedar, Atlas	Cedrus atlantica	Murraea	Murraea exotica				
Cistus	Cistus purpureus	Murraea paniculata	Murraea paniculata				
Citrus, Ornamental		Myoporum	Myoporum laetum				
Grapefruit	Citrus paradisi	Myrtle	Myrtus communis				
Lemon	Citrus Limon	Nandina	Nandina domestics				
Lime	Citrus aurentifolia Bears	Oak	Quercus, spp.				
Mandarin	Citrus reliculate	Ochana	Ochana serrulate				
Tangelo	Citrus Xtangelo Minneola	Ohai	Samanea samanarium				
Tangerine	Citrus reliculate var. tangerine	Oleander	Oleander				
Temple	Citrus Xnobilis Temple	Orthosiphon	Orthosiphon stamineus				
Cuban Shaddock	Citrus maxima	Osmanthus	Osmanthus heterophyllum				
Valencia	Citrus sinensis	Pachysandra	Pachysandra terminalis				
Washington Navel	Citrus sinensis	Palm, Bamboo	Rhapi excelsa				
Cleyera	Cleyera japonica	Palm Fishtail	Caryota, spp.				
Coreopsis	Coreopsis lanceolate	Palm, Licuala	Licuala Thumb.spp.				
Coromandel	Asystasia gangetica	Palm, Macarthur	Plychosperme macarthur				
Cotoneaster	Cotoneaster, spp.	Palm, Mabnee	Euterpe, spp.				
Crabapple	Malus, spp.	Palm, Manila	Yeitchia merillii				
Crapemyrtle	Lagerstroemia indica	Palm, Parlor	Collinia elegans				
Chrysanthemum	Chrysanthemum, spp.	Palm Rattan	Deemonorops, spp.				
Cypress	Cupressus, spp.	Palm, Scaling Wax	Cyrtostachys lakka				
Cypress, Leyland	Cupressocyparis leylandii	Palm, Sugar	Arenge sacchanifera				
Dahlia	Dahlia, spp.	Paperbark Tree	Melafeuca leucandendra				
Daphne, Fragrant	Daphne odora	Peony	Peonia, spp.				
Deutzia, Slender	Deutzia gracilis	Periwinkle, common	Vinca minor				
Dieffenbachia	Dieffenbachia, spp.	Periwinkle, Large	Vinca major				
Dogwood, Common	Comus florida	Photinia, Frasers	Photinis trasieri				
Dogwood, Redosier	Comus stolonifera	Poinciana	Dolonix regea				
Dogwood, Kousa	Comus kousa	Pine	Pinus spp.				
Douglas fir	Pseudotsuga menziesii	Pittosporum, Japanese	Pittosporum tobira				
Elm	Ulimus, spp.	Plum, Natal	Carissa macrocarpa				
Escallonia	Escallonia, spp.	Podocarpus, Yew	Podocarpus macrophyllum				
Eucalyptus	Eucalyptus, spp.	Pomegranite	Punica granatum				
Euryops, Gray Leaved	Euryops pectinatus	Poplar	Populus spp.				
Euonymus, Spreading	Euonymus kiautshavicus	Potentilla	Potentilla fruticosa				
Euonymus, Wintercreeper	Euonymus fortunei	Potentilla	Potentilla fragiformis				
Falsecypress, Hinoki	Chaemeacyparis obtuse	Privet	Ligustrum, spp.				
Falsecypress, Japanese	Chaemeacyparis pisifera	Protea species	Banksis menresi				
Flowering Quince	Chaenomeles speciosa		Leucodendron discolor				
Forsythia	Forsythia intermedia		Leucospermum				
Gardenia	Gardenia jazminoides		Cordifolium				
Gazania Trailing	Gazania uniflora / eucoleana		Protea exinia				
Ginko	Ginko biloba		Pyracantha coccinea				
Gladiolas	Gladiolas, spp.		Raphiolepis umbellata				
Golden Raintree	Koelreuteria paniculata		Raphiolepis umbellata				
			Rhododendron				
			Rhododendron				

For use on plants that will not bear edible fruit within 1 year of application.

NEW TRANSPLANTED ORNAMENTAS AND GROUND COVERS

COMMON NAME	SCIENTIFIC NAME
Blanket Flower	Gaillardia aristata
Brassaia, Dwarf	Brassaia actinophylla
Camelia	Camelia japonica
Carnation	Dianthus caryophyllus
Cedar, Red	Juniperus atlantica
Coromandel	Asystesia gangetica
Dogwood, Flowering	Cornus florida
Elm	Ulmus, spp.
Forsythia	Forsythia intermedia
Gazania, Trailing	Gazania uniflora leucoleana
Hackberry	Celtis occidentalis
Ivy, Algerian	Hedera canariensis
Ivy, English	Hedera Helix
Hemlock, Canada	Tsuga canadensis
Holly	Ilex, spp.
Ice Plant	Carpobrotus edule
Juniper	Juniperus, spp.
Leopards-Bane	Doronicum cordatum
Metallic Plant	Hemigraphis colorata
Oak	Quercus, spp.
Periwinkle, Common	Vinca minor
Periwinkle, Large	Vinca major
Pine	Pinus, spp.
Poplar	Populus, spp.
Privet	Ligustrum, spp.
Protea Species	Bnksia menlesii
	Leucadendron discolor
	Leucospermum
	Cordifolium
	Protea exinia
	Rhododendron, spp.
	Eleagnus angustifolia
	Picea, spp.
	Osteospermum fruticosum
	Wedelia trilobata
	Wisteria sinensis

Use on Lawnsapes, Nurseries, Parks, Cemeteries, Garden Centers, University Campus Grounds, Ornamental landscapes, for pre-emergence weed control around Ornamental Shrubs, Vines, Trees and Ground Covers.

WHERE, HOW MUCH AND WHEN TO USE around ORNAMENTALS
 STARTEEM® pre-emergence herbicides can be applied anytime of the year prior to weed seed germination to both newly transplanted and established actively growing or dormant ornamental plants where both weed control and fertilization is desired. **The fertilizer values of STARTEEM® products can be tailored for your "special order" soil needs.** Rainfall of overhead irrigation will improve weed control activity.

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FERTILIZER with STARTEEM® # 3

A PRE-EMERGENCE HERBICIDE FOR USE GOLF COURSES, NURSERIES, GARDEN CENTERS, PARKS, and MUNICIPAL, FEDERAL, CORPORATE LAWNSCAPES.

Do not mix into soil. Disturbing or cultivating the soil after treatment may reduce weed control results. Do not apply granules to wet foliage or under conditions in which granules will collect on leaves, if so, sprinkler-irrigate the plants to move granules off foliage and down to soil level. Do not apply in greenhouses as plant injury may likely result.

For best pre-emergence weed control around these ornamental plants first remove any existing weed growth. Rake, cultivate and smooth the soil surface by breaking-up clumps. Apply before weed seeds germinate (see map for regions) by broadcasting the granules evenly over the prepared soil.

For over all pre-emergence weed control around ornamentals as listed on this label with or without the asterisk use the STARTEEM 1-3 SPLIT Program. First apply STARTEEM #1 OR #2 40 to 60 days before weed seeds germinate; at 200 lbs per acre (equal to 4.6lbs per 1,000 sq. ft.) and follow within 60 days with the second application using STARTEEM #3 at the same rate; 200 lbs per acre.

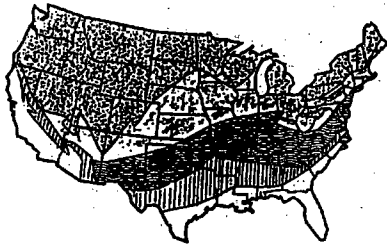
STARTEEM-SPLIT Application Rates to apply around Ornamentals

FIRST APPLICATION – 40 to 60 days before weed seed germination use STARTEEM #1 or #2 – at 200 # / acre
 SECOND APPLICATION – applied within 60 days of the first application use STARTEEM #3 – at 200 lbs / acre

ANNUAL BROADLEAF WEEDS AND ANNUAL GRASSES

- | | | |
|-------------------|------------------------|-----------------------|
| Annual Bluegrass | Fall Panicum | Redroot Pigweed |
| Annual Sedge | Florida Pusley | Sensitive Plant |
| *Barnyardgrass | *Galinsoga | Shepardspurse |
| Bittercress | Golden Ragwort | Sow thistle |
| Carpetweed | *Goosegrass | Speedwell |
| Carpetgrass | *Jungle Ricegrass | Spotted Catsear |
| Common Groundsel | Lambsquarter | Spurge; Garden; Petty |
| Common Purslane | *Liverwort | *Prostrate |
| Crabgrass | Oxalis | Stinging Nettle |
| *Evening Primrose | *Panama Paspalum | *Swinecress |
| Fireweed | Pennsylvania Smartweed | Virginia Buttonweed |
| Field Sandbur | | Yellow Woodsorrel |

Crabgrass Seed Germination Dates



- Approximate Date
- Mid-north & northwestern After May 30
 - Upper/mid-states & northeast After May 10
 - Lower mid-states After April 20
 - Upper southern states After March 20
 - Warm season states January 1 to March 20

FOREST NURSERY APPLICATION

Common Name	Scientific Name
Pine, Loblolly	Pinus, taeda
Pine, Eastern White	Pinus, Strobus
Pine, Slash	Pinus, Canbaea

SENSITIVE PLANTS

Under certain growing conditions, the plant varieties listed below may be sensitive to this product. Growers should evaluate usage on a small scale prior to large scale applications.

PLANT SPECIES	VARIETIES
Andromeda (pieris jaonica)	Snowdrift, Temple Belt
Azalea	Pink Champagne, Hershey, (Rhododendron spp. Leuchtenfuer, Memoire John Hearrens, Hino Crimson, White Grandeur, Everest, Girard Roberta
Cotoneaster	Eichholz, Himalayan, Shangri-la (Cotoneaster spp)
Crapemyrde (Lagerstroemis indica)	Petite Red Imperial, and Seminole Bush
Heath, Spring (Erica carnea)	Mediterranean Pink
Hemlock, Canada (Tsuga Canadensis)	Pendula
Hibiscus (Hibiscus Syriacus)	Red Heart
Rhododendron	Daphnoides, Nova Lentia, Rhododendron spp, Calawba Album
Spruce, Norway (Picea abies)	Pumila
Spruce, White (Picea glauca)	Densata
Viburnum (Viburnum spp)	Davidii

Net Weight 50 Pounds
Harrell's, Inc.
 P. O. Box 807 * Lakeland, FL 33802