

52287-10

07/24/2009

1/10



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Robert F. Bischoff
Product Registration
TotalTurf Consulting LLC
Agent for Harrell's LLC
26 A.A. Cooper Road
Megs, GA 31765

JUL 24 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request Alternate Brand Name "Fertilizer W/Starateem #1%"
EPA Reg. No. 52287-10
Application Dated June 17, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 06/17/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 52287-10	2. EPA Product Manager Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Fertilizer with Starteem #1	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Harrell's LLC P. O. Box 807 Lakeland, FL 33802 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>N/A</u> NOTIFICATION Product Name <u>N/A</u> JUL 24 2009	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Notification of Alternate Brand Name per PR Notice 98-10 (IIA). This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA..

Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 50 lbs		5. Location of Label Directions <input checked="" type="checkbox"/> On Affixed Label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Robert F. Bischoff	Title Agent, TotalTurf Consulting LLC	Telephone No. (Include Area Code) (317) 873-0222
<p align="center">Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>		6. Date Application Received (Stamped)
2. Signature 	3. Title Agent, TotalTurf Consulting LLC	
4. Typed Name Robert F. Bischoff	5. Date June 17, 2009	

3/10

TotalTurf Consulting LLC
26 A. A. Cooper Rd.
Meigs, GA 31765

Direct: 843-384-2807
Fax: 229-683-3426

E-Mail: rbcooper@juno.com

June 17, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7505P)
U. S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Attn: Joanne I. Miller

Subject: Fertilizer with Starteem #1
EPA Reg. No. 52287-10
Notification of Alternate Brand Name

Dear Ms. Miller:

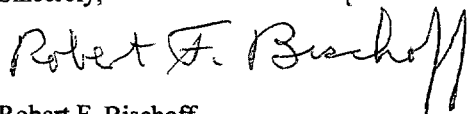
Enclosed labeling shows the addition of an alternate brand name (Fertilizer W/Starteem #1) for the subject registered product. This notification is being submitted on behalf of Harrell's LLC, P. O. Box 807, Lakeland, FL 33802 by TotalTurf Consulting LLC, an authorized agent for Harrell's LLC.

The following documents are included in the subject submission:

- Cover Letter
- Application for Pesticide (EPA Form No. 8570-1)
- One Copy of Labeling Showing the Alternate Brand Name [Coded as 20090617.Final Label]
- One Copy of Current Labeling [Coded as 20090303.Final Label]

If there are any questions or additional information is needed concerning this submission, do not hesitate to contact me at (317) 873-0222 or Raymond B. Cooper at (843) 384-2807.

Sincerely,



Robert F. Bischoff
Agent
TotalTurf Consulting LLC
26 A. A. Cooper Road
Meigs, GA 31765

4/10

FERTILIZER with STARTEEM® # 1

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].....	0.500%
Benfluralin [CAS No. 1861-40-1].....	0.375%
Trifluralin [CAS No. 1582-09-8].....	0.375%
OTHER INGREDIENTS:	98.750%
Total	100.00%

EPA Reg. No. 52287-10

EPA Est. No. 52287-FL-1

GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N).....	XX%
Ammoniacal Nitrogen.....	XX%
Urea Nitrogen.....	XX%
Available Phosphoric Acid (P ₂ O ₅).....	XX%
Soluble Potash (K ₂ O).....	XX%

Derived from Ammonium Phosphate, Urea, and Muriate of Potash

KEEP OUT OF REACH OF CHILDREN

CAUTION

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. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC Web Site: www.npic.orst.edu).

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.

20090303.Final Label

FERTILIZER W/STARTEEM® # 1

5/10

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

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 extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oysters. 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 of 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. 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE 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:** Nonrefillable container. Do not reuse or refill this container, offer for recycling if available. 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, Inc. 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 # 1 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 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 of 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.

6/10

FERTILIZER W/STARTEEM® # 1

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

Pre-emergence Weed Control with the "STARTEEM® SPLIT"			
Weeds Controlled	FIRST APPLICATION	SECOND APPLICATION	Directions
Crabgrass (Digitaria, spp.) Goosegrass (Bleusine indica) Field Sandbur(Canachusincertus) Annual Sedge (Cyperuscompressus) Annual Bluegrass (Poa annua spp.) (See Note below)	STARTEEM #1 *Apply 200 lbs. product per acre equal to 4.6# / 1,000 sq. ft.	STARTEEM #2 or #3 Apply 60 days later at 200 lbs. per acre equal to 4.6# / 1000 sq. ft.	*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 / 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 1/4 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 1 lb of oxadiazon active ingredient per acre and 0.75 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. Do not apply more than two (2) applications per year. Applications to plants that will bear fruits, berries, or nuts within 12 months are not allowed. Aerial application is prohibited. Not for use on home lawns, in field grown ornamental nurseries, on ornamental bulbs, or in Christmas tree plantations. 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 be 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.

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. Augustine grass 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.

FERTILIZER W/STARTEEM® # 1

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

7/10

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 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 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 Pespalum	**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 of the first application. 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 overseeded 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.

8/10

FERTILIZER W/STARTEEM® # 1

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

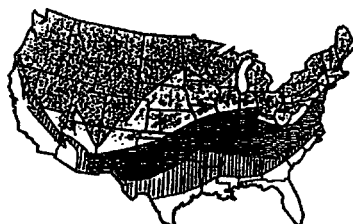
Controls Annual Broadleaf Weeds and Annual Grasses






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, LLC
 P. O. Box 807 * Lakeland, FL 33802

Batch No.

9/10

FERTILIZER W/STARTEEM® # 1

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

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 arborase	Russian Olive	Eleagnus angustifoli	Syzygium	Syzygium
Agapanthus	Agapanthus africanis	Hemlock, Canada	Tsuga Canadensis	Sargent Cherry	Prunus sergentii		paniculatum
Allamanda, common	Allamanda cathartica	Hibiscus	Hibiscus, spp.	Scotch Broom	Cytisus scoparius	Trailing African Daisy	Osteospermum fruticosum
Andromeda	Pieris spp.	Honeysuckle	Lonicera, spp.				
Aralia	Aralia spinosa	Holly	Ilex, spp.				
Arborvita	Thuja spp.	Ice Plant	Carpobrotus edule				
Ash, Green	Frzinus pennsylvanica	Ilima	Sida fallax	Sedum	Sedum album	Viburnum	Viburnum, spp.
Azalea	Rhododendron	Ivy, Algerian	Hedera canariensis	Serviceberry, Saskatoon	Amelanchier ainifolia	Wedelia	Wedelia trilobata
Baby's B'reath	Gypsophila paniculate	Ivy, English	Hedera helix	Spruce	Picea, spp.	Wisteria, Chinese	Wisteria sinensis
Bald Cypress	Takodium distichum	Jasmine, Orange	Murray paniculeta	Statice	Limonium, spp.	Witchhazel, common	Hamamelis virginiana
Bamboo, Feathery	Bambusa vulgaris	Jasmine, Primrose	Jasminum mesnyi	St. Johnswort, Golden	Hypericum frondosum	Woodwaxen, common	Genista tinctori
Banyan, Weeping	Ficus benghalensis	Jasmine, Star	Trachelospermum jasminicoides	St. Johnswort, Goldencup	Hpericum patulum		
Barberry	Berberis spp	Jasmine, Showy	Jasminum floridum	Strawberry Tree	Arbutus unedo	Wooly Thyme	Thymus
Beefsteak Plant	Acalypha wilkesiana	Juniper	Juniperis, spp.	Sumac, Staghorn	Rhus typhina	Xylosma	pseudolanugirosis
Bearyery	Arctostaphylos uva-ursi	Justica	Justice brandegeana			Yew	Taxus spp.
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	Liatris spicate	Lapalapa	Cheirodendron, spp.				
Boxwood, Japanese	buxus microphyllia	Larch, European	Larix deciduas				
Boxwood, Common	Buxus semperirens	Laurel, English	Prunus laurocerasus				
Bouganvillea	Bouganvillea spectabilis	Leopards - Bane	Doronicum cordatum				
Brassaia, Dwarf	Brassaia actinophylla	Leucothoe, Coast	Leucothoe exillaris				
Buddleia	Buddleia davidii	Leucothoe, Drooping (catesbaei)	Leucothoe fontanesia				
Bugleflower	Ajuga reptans	Lily of the Nile	Agapanthus, umbellatus				
Callistemon	Callistemon lanceolata	Lilac	syringa, spp.				
Camelia, common, Jap	Camelia japonica	Littleleaf Linden	Tilia cordate				
Camelia, Sasanque	Camelia sasanqua	Loquat	Eriobotrya japonica				
Candytuft	Iberis sempirirons	Magnolia	Magnolia, spp.				
Carissa	Carissa macrocarpa	Mahonia, Grape Holly	Mahonia aquifolium				
Camation	Dianthus caryophyllus	Money Tree	Pleomale marginata				
Ceanothus	Ceanothus americanus	Murraea	Murraea exotica				
Cedar, Red	Juniperus virginiana	Murraea	Murraea exotica				
Cedar, Atlas	Cedrus atlantica	Murraea	Murraea paniculata				
Cistus	Cistus purpureus	Myoporum	Myoporum laetum				
Citrus, Ornamental		Myrtle	Myrtus communis				
Grapefruit	Citrus paradisi	Nandina	Nandina domestica				
Lemon	Citrus Limon	Oak	Quercus, spp.				
Lime	Citrus aurentifolia	Ochana	Ochana serrulate				
Mandarin	Citrus reticulata	Ohai	Samanea samanarium				
Tangelo	Citrus Xtangelo Minneola	Oleander	Oleander				
Tangerine	Citrus reticulata var. tangerine	Orthosiphon	Orthosiphon stamineus				
Temple	Citrus Xnobilis Temple	Osmanthus	Osmanthus heterophyllum				
Cuban Shaddock	Citrus maxima	Pachysandra	Pachysandra terminalis				
Valencia	Citrus sinensis	Palm, Bamboo	Rhapi excelsa				
Washington Navel	Citrus sinensis	Palm Fishtail	Caryota, spp.				
Cleyera	Cleyera japonica	Palm, Licuala	Licualo Thumb.spp.				
Coreopsis	Coreopsis lanceolate	Palm Macarthur	Plychosperme macarthurii				
Coromandel	Asystasia gangentica	Palm, Mabnee	Euterpe, spp				
Cotoneaster	Cotoneaster, spp.	Palm manila	Veitchia merillii				
Crabapple	Malus, spp.	Palm, Parlor	Collinia elegans				
Crapemyrtle	Lagerstroemia indica	Palm Rattan	Deemonorops, spp.				
Chrysanthemum	Chrysanthemum, spp.	Palm, Scaling Wax	Cyrtostachyus lakka				
Cypress	Cupressus, spp.	Palm, Sugar	Arenga sacchanifera				
Cypress, Leyland	Cupressocyparis leylandii	Paperbark Tree	Melateuca leucandendra				
Dahlia	Dahlia, spp	Peony	Peonia, spp.				
Daphne, Fragrant	Daphne odora	Periwinkle, common	Vinca minor				
Deutzia, Slender	Deutzia gracilis	Periwinkle, Large	Vinca major				
Dieffenbachia	Dieffenbachia, spp.	.Photinia, Frasers	Photinis fraseri				
Dogwood, Common	Comus florida	Poinciana	Dolonix regea				
Dogwood, Redosier	Comus stolonifera	Pine	Pinus spp.				
Dogwood, Kousa	Comus kousa	Pittosporum, Japanese	Pittosporum tobira				
Douglas fir	Pseudotsuga menziesii	Plum, Natal	Carissa macrocarpa				
Elm	Ulimus, spp.	Podocarpus, Yew	Podocarpus macrophyllis				
Escallonia	Escallonia, spp.	Pomegranite	Punica granatum				
Eucalyptus	Eucalyptus, spp.	Poplar	Populus spp.				
Euryops, Gray Leaved	Euryops pectinatus	Potentilla	Potentilla fruticososa				
Euonymus, Spreading	Euonymus kiautschavicus	Potentilla	Potentilla fragiformis				
Euonymus, Wintercreeper	Euonymus fortunei	Privet	Ligustrum, spp				
Falsecypress, Hinoki	Chaemeacyparis obtuse	Protea species	Banksis menresi				
Falsecypress, Japanese	Chaemeacyparis pisifera		Leucodendron discolor				
Flowering Quince	Chaenomeles speciosa		Leucospermum				
Forsythia	Forsythia intermedia		Cordifolium				
Gardenia	Gardenia jazminoides		Protea exinia				
Gazania Trailing	Gazania uniflora / eucoleana	Pyraantha	Pyraantha coccinea				
Ginko	Ginko biloba	Raphiolepis	Raphiolepis umbellate				
Gladiolas	Gladiolus, spp.	Redwood, Dawn	Metasequoia glyphostraboides				
Golden Raintree	Koelreuteria paniculata	Rhododendron	Rhododendron spp.				

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

New Transplanted Ornamentals and Ground Covers

COMMON NAME	SCIENTIFIC NAME
Blanket Flower	Gaillardia aristata
Brassaia, Dwarf	Brassia actinophylla
Camelia	Camelia japonica
Camation	Dianthus caryophyllus
Cedar, Red	Juniperus atlantica
Coromandel	Asystesia gangentica
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	Rhododendron, spp.
Russian Olive	Eleagnus angustifolia
Spruce	Picea, spp.
Trailing African Daisy	Osteospermum fruticosum
Wedelia	Wedelia trilobata
Wisteria, Chinese	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. Do not mix into soil.

10/10

FERTILIZER W/STARTEEM® # 1

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

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 4.6 lbs 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
 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

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, teada
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

Andromeda (pieris jaonica)
Azalea
Cotoneaster
Crapemyrtle
(Lagerstroemis indica)
Heath, Spring
(Erica cameo)
Hemlock, Canada
(Tsuga Canadensis)
Hibiscus (Hibiscus Syriacus)
Rhododendron
Spruce, Norway (Picea abies)
Spruce, White (Picea glauca)
Viburnum
(Yiburnum spp)

VARIETIES

Snowdrift, Temple Belt
Pink Champagne, Hershey, (Rhododendron spp. Lauchtenluer, Memoire John Hearrens, Hino Crimson, White Grandeur, Everest, Girard Roberta
Etchitrolz, Himalayan, Shangri-la (Cotoneaster spp)
Petite Red Imperial, and Seminole Bush
Mediterranean Pink
Pendula
Red Heart
Daphnoides, Nova Zentia, Rhododendron spp, Calawba Album
Pumila
Densata
Davidii

Net Weight 50 Pounds

Batch No.

Harrell's, LLC

P. O. Box 807 * Lakeland, FL 33802