

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 1 0 2009

Robert F. Bischoff, Agent for Harrell's LLC TotalTurf Consulting 26 A. A. Cooper Rd. Meigs, GA 31765

Subject: Label Notifications for Pesticide Registration Notice 2007-4

Dear Mr. Bischoff,

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated March 3, 2009 for the following products:

Fertilizer with Starteem® # 1	EPA Registration Number 52287-10
Fertilizer with Starteem® #3	EPA Registration Number 52287-12
Weed-Free One Eleven	EPA Registration Number 52287-13
Turf Fertilizer with Ronstar 1.20	EPA Registration Number 52287-14
Harrell's Granular Herbicide 75	EPA Registration Number 52287-15
Harrell's Granular Herbicide 63	EPA Registration Number 52287-16
Turf Fertilizer with Pendimethalin 0.75	EPA Registration Number 52287-17
Turf Fertilizer with Pendimethalin 1.0	EPA Registration Number 52287-18
Turf Fertilizer with Barricade 0.38	EPA Registration Number 52287-19
Turf Fertilizer with Barricade 0.3	EPA Registration Number 52287-20

The Registration Division (RD) has conducted its review of these requests for their applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The labels submitted with the application have been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,

Linda Arrington Notifications & Minor Formulations Team Leader

Registration Division (7505P)

Office of Pesticide Programs

Please read instructions o		·			Form App	roved		•	Approval expires 2-28-
\$EPA	Environmenta	Inited States I Protection Ington, DC 20	_	ıcy		✓	Registra Amenda Other		Orr Menules Number
		Application	on for P	esticide	e - Sect	ion	I		
1. Company/Product Num 52287-10	ber			2. EPA Pro Joanne	oduct Man	ager		3. Pro	posed Classification
4. Company/Product (Nam Fertilizer with Startee				PM# 23		•			
5. Name and Address of A Harrell's LLC P. O. Box 807 Lakeland, FL 33802		de)		(b)(i), my to: EPA Re	product ig. No. $\frac{N}{N}$	s sim	ilar or ident	NOTIF	FIFRA Section 3(c)(3) mposition and labeling ICATION 0 2009
			Sect	Product	Name _		. 221		
Resubmission in re Notification - Expla Explanation: Use additi Notification of label change regulations at 40 CFR Part of Formula for this product the amended label is not of FIFRA and I may be subje-	onal page(s) if necessar e per PR Notice 2007-4. ts 156.10, 156.140, 156.1 . I understand that it is a onsistent with the require	y. (For section of the control of th	n is consiste nd 156.156. U.S.C. Sec. R Parts 156	tion II.) nt with the g No other of 1001 to will 5.10, 156.14	hanges hav Ifully make 10, 156.144	PR Nove bee	etion. elow. otice 2007-4 en made to the lise statemen	e labeling o	r the Confidential Statemer further understand that if
	:		Secti	on - III					·
1. Material This Product V	Vill Be Packaged In:		3601	011 - 111					
Child-Resistant Packaging Yes No Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container			keging No. per containe	•	2. Type of	Container Metal Plastic Glass Paper Other (S	pecify)
3. Location of Net Content	s Information	4. Size(s) Re	tail Contain	er	-	5. Lo	cation of Lat	oel Directio	ns
Label Label	Container	<u> </u>	50 lb	s			on affixe	ed label	
6. Manner in Which Lebel	is Affixed to Product	J Lithog Paper Stenc	raph glued iled		Other				
				on - IV					
1. Contact Point (Comple	te items directly below f	or identification	on of individ	lual to be d	contacted,	if nec	essary, to pr	ocess this	app'ication:)
Name Robert F. Bischoff			Title Agent, To	otalTurf Co	onsulting L	.LC		(317) 873	No. (Include Area Code) -0222cc € c €
I certify that the sta I acknowledge that of both under applicable	tements i have made on any knowlinglly false or e law.	Certifica this form and misleading sta	all attachn	nents there y be punis	eto are true hable by fi	, accu ne or i	urate and co	mplete.	6. Date Application Feceived (Stamped)

3. Title

5. Date

Agent, TotalTurf Consulting LLC

March 3, 2009

2. Signature

4. Typed Name

Robert F. Bischoff

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

Direct: 843-384-2807 E-Mail: rbcooper@juno.com

Fax: 229-683-3426

March 3, 2009

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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: Linda Arrington

Subject: Fertilizer with Starteem #1

EPA Reg. No. 52287-10

Notification to Comply with PR Notice 2007-4

Dear Ms. Arrington:

In response to PR Notice 2007-4 concerning container reuse and related container label statements for pesticide products, labeling for the subject product has been revised to comply with this Notice. The revised label is being submitted by notification 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 Highlighted Final Printed Label (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

FERTILIZER with STARTEEM® # 1

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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)	
OTHER INGREDIENTS:	98.750%
	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	
Available Phosphoric Acid (P ₂ O ₅)	XX%
Soluble Potash (K ₂ O)	

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 detaile. (If you do not understand the label, find someone to explain it to you in detail).

FIRST AID

<u>IF IN EYES:</u> 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.

<u>IF INHALED</u>: 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.

<u>IF SWALLOWED:</u> 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.

NOTIFICATION

20090303.Final Label

APR 1.0 2009

RTILIZER with STARTEEM® # 1

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: long-sleeved shirt and long pants, shoes and socks, and chemical resistant gloves made of water proof materials. 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 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 no 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 tits 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 project 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 result 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.

0000 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. o 0000

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

HOW MUCH TO USE AND WHEN TO APPLY THEM!

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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. Augustißegrass, Seashore Paspalum, Tall Fescue and Zoysiagrass turf, at condominium complexes, corporate and public parks, golf courses, sod farms; while the 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

FERTILIZER with STARTEEM® # 1

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

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 <u>one application of each STARTEEM # 1 AND STARTEEM # 2</u> 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-en	nergence Weed Cor	trol with the "STARTI	EEM® SPLIT"
Weeds Controlled Crabgrass (Digitaria,spp.)	FIRST APPLICATION	SECOND APPLICATION	Directions *Apply #1 40 to 60 days prior to weed seed
Goosegrass (Bleusine Indica) Field Sandbur(Canchusincertus) Annual Sedge (Cyperuscompressus) Annual Bluegrass (Poa annua spp.)	*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.	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
(See Note below)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		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 Ap	plication for Spring	Weed Control in Coo	l 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 Contr	ol in Bermudagrass	Fairways Overseede	d 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
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.		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.	

		blishment from Sprig nd Seashore Paspalun	
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 p 14 days after sprigging. Applications made clos Disturbance of the soil surface after application n irrigate the "sprigged" area with up to ¼ inch water	se to the time of spr nay disrupt the herbici	igging may cause objection	able Seashore Paspalum injury.

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 m.cm. are not allowed. Aerial application is prohibited. Not for use on home lawns, in field grown ornamental nurseries, on ornamental bulbs, or in Christmas the 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.

RTILIZER with STARTEEM® # 1

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. 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.

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 Benefin and Trifluralin per acre, per year.

If "Hard-To-Kill" weeds (as listed below) with the asterisk (*) are known to be prevalent in the turigrass 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 Annual Sedge *Barnyardgrass Bittercress Carpetweed Carpetgrass

Fireweed Field Sandbur Foxtail: Green, Bristly Common Groundsel Common Purslane

Fall Panicum Florida Pusley **Galinsoga Golden Ragwort *Goosegrass

*Evening Primrose

**Jungle Ricegrass Lambsquarter **Liverwort Oxalis **Panama Pespalum

Pennsylvania Smartweed Redroot Pigweed Sensitive Plant Shepardspurse

Sow thistle Speedwell Spotted Catsear Spurge: Garden, Petty. **Prostrate Stinging Nettle

*Swinecress Virginia Buttonweed Yellow Woodsorrel

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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 Cyclone B3-Pro

Crabgrass

STARTEEM® #1 #x.x

STARTEEM® #2

STARTEEM® #3 #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 Renfluralin 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 cesirable 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.

ERTILIZER with STARTEEM® # 1

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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

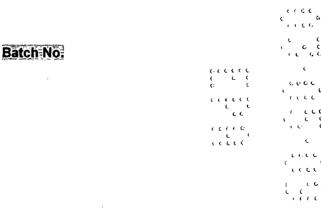
Approximate Crabgrass Seed Germination Dates In the U.S.A.



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



ERTILIZER with STARTEEM® # 1

A PRE-EMERGENCE HERBICIDE COMBINATION FOR GOLF COURSES, PARKS, ATHLETIC FIELDS, CEMETERIES, UNIVERSITY, FEDERAL, MUNICIPAL, COR

ENTABLISHED ORAAHENTAI	S & GROUND COVERS	ESTABLISHED OR NAMENTALS & GROUND (OVERS
COMMON NAME	SCIENTIFIC NAME	COMMON NAME SCIENTIFIC NAME
Abutilon	Abutilon pictum	Heather, Scotch Calluna vulgaris
		Heliotropium Heliotropium arborase
Acacia	Acacia spp.	Hemlock, Canada Tsuga Canadensis
Agapanthus Allamanda, common	Agapanthus africanis Allamanda cathartica	Hibiscus, spp. Honeysuckle Lonicera, spp.
Andromeda	Pieris spp.	Holly lex, spp.
Aralia	Aralia spinosa	Ice Plant Carpobrotus edule
Arborvita	Thuja spp.	llima Sida fallax
Ash, Green	Frzinus pennsylanica	lvy, Algerian Hedera canariensis
Azalea Baby's Brreath	Rhododendron Gypsophila paniculate	lvy, English Hedera helix Jasmine, Orange Murray paniculeta
Bald Cypress	Takodium distichum	Jasmine, Primrose Jasminum mesyni
Bamboo, Feathery	Bambusa vulgaris	Jasmine, Star Trachelospernum jasminicides
Banyan, Weeping	Ficus benghalensis	Jasmiine, Showy Jasminum floridum
Barberry Poofstook Bloom	Berberis spp	Juniper Juniperis, spp.
Beefsteak Plant Bearbery	Acalypha wilkesiana Arctostaphylos uva-ursi	Justica Justice brandegeana Kwanzan Cherry Prunus serrulata
Beech, European	Fagus sylvatica	Lamb's Ear Stachys byzantina
Birch, Paper	Betula papyrifera	Lantana, Trailing Lantana montividensis
Blanket Flower	Gaillardia aristate	Lapalapa Cheirodendron, spp.
Blazing Star	Liatris spicate	Larch, European Larix deciduas
Boxwood, Japanese	buxus microphylia	Laurel, English Prunus laurocerasus
Boxwood,Common	Buxus semperirens	Leopards — Bane Doronicum cordatum Leucothoe, Coast Leucothoe exillaris
Bouganvillea Brassaia, Dwarf	Bounganvillea spectablis Brassaia actinophylia	Leucothoe, Coast Leucothoe exillaris Leucothoe, Drooping Leucothoe fontanesia
Buddleia	Buddleai davidii	(catesbaei
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 sasangua	Loquat Eriobotrya japonica
Candytuft Carissa	Iberis sempirirons Carissa macrocarpa	Magnolia Magnolia, spp. Mahonia, Grape Holly Mahonia aquifolium
Camation	Dianthus caryophyllus	Money Tree Pleomale marginata
Ceanothus	Ceanothus americanus	Murraea exotica
Cedar, Red	Juniperus virginiana	Murraea exotica
Cedar, Atlas	Cedrus atlantica	Murraea Murraea paniculata
Cistus Citrus, Ornamental	Cistus purpureus	Myoporum Myoporum Iaetum Myrtle Myrtus communis
Grapefruit	Citrus paradisi	Nandina Nandina domestics
Lemon	Citrus Limon	Oak Quercus, spp.
Lime	Citrus aurentifolia Bears	Ochana Ochana serrulate
Mandarin Tangglo	Citrus reliculate	Ohai Samanea samanerium Oleander Oleander
Tangelo Cit	Citrus Xtangelo Minneola rus reliculate var.tangerine	
Temple	Citrus Xnobilis Temple	Osmanthus Osmanthus heterophyllus
Cuban Shaddock	Citrus maxima	Pachysandra Pachysandra terminalis
Valencia	Citrus sinensis	Palm, Bamboo Rhapi excelsa
Washington Navel	Citrus sinensis	Palm Fishtail Caryota, spp.
Coreonsis	Cleyera japonica	Palm, Licuata Licuato Thumb.spp.
Coreopsis Coromandel	Coreopsis lanceolate Asystasia gangentica	Palm Macarthur Plychosperme macarthuri 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 Cytrostachuys lakka
Cypress Cypress, Leyland	Cupressocyparis leylandii	Palm, Sugar Arenge sacchanifera Paperbark Tree Melateuca leucandendra
Dahlia	Dahlia, spp	Peony Peonia, spp.
Daphne, Fragrant	Daphne odora	Periwinkle, common Vinca minor
Deutzia, Slender	Deutzis gracilis	Periwinkle, Large Vinca major
Dieffenbachia	Dieffenbachia, spp. Comus florida	Photinia, Frasiers Photinis frasieri Poinciana Polonix regea
Dogwood, Common Dogwood, Redosier	Comus stolenifera	Prine 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 Eucalyptus	Escalionia, spp.	Pomegranite Punica granatum
Eucalyptus Euryops, Gray Leaved	Eucalyptus, spp. Euryops pectinatus	Populus spp. Potentilla Potentilla fruiticosa
Euonymus, Spreading	Euonymus kiautshavicus	Potentilla Potentilla fragiformis
Euonymus, Wintercreeper		Privet Ligustrum, spp
Falsecypress, Hinoki	Chaemeacyparis obtuse	Protea species Banksis menresi
Falsecypress, Japanese	Chaemeacyparis pisifera	Leucodendron discolor
Flowering Quince Forsythia	Chaenomeles speciosa Forsythia intermedia	Leucospernum
Gardenia	Forsythia intermedia Gardenia jazminoides	Lordifolium Protea exinia
Gazania Trailing	Gazania uniflora / eucolea	
Ginko	Ginko biloba	Rafhiolepis Raphiolepis umbellate
Gladiolas Coldon Bointros	Gladiolus, spp.	Redwood, Dawn Metasequoia glyphostraboides
Golden Raintree	Koelreuteria paniculata	Rhododendron Rhododendron spp.

PORATE LAWNS BYTABLISHED ORNAMENTAL			NTALS & GROUND COVE	
COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	
Rose, spp.	Rose, spp.	Sweet William	Dianthus barbatus	
Russian Olive	Eleagnus angustifoli	Syzygium	Syzygium	
Sargent Cherry	Prunus sergentii	3/2/8/01/1	paniculatum	
Scotch Broom	Cytisus scoparius	Trailing African Daisy	Osteospermum	
	7,		fruticosum	
Sedum	Sedum album	Viburnum	Viburnum, spp.	
Serviceberry, Saskatoon	Amelancheir ainifolia	Wedelia	Wedelia trilobata	
Spruce	Picea, spp.	Wisteria, Chinese	Wisteria sinensis	
Statice	Limonium, spp.	Witchhazel, common	Hamamelis virginiana	
St. Johnswort, Golden		n Woadwaxen, common	Genista tinctori	
St. Johnswort, Goldencup	Hpericum patulum			
Strawberry Tree	Arbulus unedo	Wooly Thyme	Thymus	
Sumac, Staghorn	Rhus typhina	Xylosma	pseudolanugirosis	
-			Taxus spp.	
	applica			
New Tran	nsplanted Orname	ntals and Ground Cov	ers	
COMMON I	NAME	SCIENTIFIC NAI	ME	
Blanket Flower		Gaillardia aristata		
	Brassaia, Dwarf		hylla	
Camelia	Camelia Camelia japonica		a	
Carnation		Diianthus caryo	phyllus	

Juniperus atlantica Cedar, Red Coromandel Asystesia gangentica Dogwood, Flowering Cornus florida Ulmus, spp. Forsythia intermedia Elm Forsythia Gazania, Trailing Gazania uniflora leucoleana Hackberry Celtis occidentalis Hedera canariensis lvy, Algerian lvy, English Hemlock, Canada Hedera Helix Tsuga canadensis Holly Ice Plant llex, spp. Carpobrotus edule Juniperus, spp. Doronicum cordatum Juniper Leopards-Bane Metallic Plant Hemigraphis colorata Quercus, spp. 0ak Periwinkle, Common Vinca minor Periwinkle, Large Vinca major Pine Pinus, spp. Populus, spp. Ligustrum, spp. **Poplar** Privet Protea Species Bnksia menlesii Leucadendron discolor Leucospernum Cordifolium Protea exinia Rhododendron, spp. Eleagnus angustifolia Rhododendron Russian Olive Spruce Picea, spp. Osteospernum fruticosum Wede!ia trilobata Trailing African Daisy Wedelia

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

Wisteria 'sinensis

Wisteria, Chinese

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 mixinto soil.

ERTILIZER with 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



Mid-north & northwestern Upper/mid-states & northeast Lower mid-states Upper southern states Warm season states

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

Approximate Date

FOREST NURSERY APPLICATION

Common Name Pine, Loblolly Pine, Eastern White Pine, Slash

Scientific Name Pinus, teada Pinus, Strobus 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 Chanpagne, Hershey Rhododendron spp. Leuchtentuer, Memoire John Hearrens, Hino Crimson, White Grandeur, Everest, Girard Roberta	
Cotoneaster	Eichhoiz, Himalayan, Shangri-la (Cotoneaster spp) Petite Red Imperial, and Seminole Bush	
Crapemyrtle	Petite Red Imperial, and Seminole Bush	
(Lagerstroemis indica)		
Heath, Spring	Mediterranean Pink	C
(Erica cameo)	c	o
Hemlock, Canada	Pendula	(0 (
(Tsuga Canadensis)	000000	C
Hibiscus (Hibiscus Syriacus)	Red Heart	a
Rhododendron	Daphnoides, Nova Zentia, Rhododendron spp. Calawba Album c	
Spruce, Norway (Picea abies)	Pumila Otty-00-5	
Spruce, Norway (Picea abies) Spruce, White (Picea glauca)	Densata	
Yiburnum	Davidii , , , , , , .	
(Viburnum spp)	60,61	

NOTIFICATION

Net Weight 50 Pounds

Batch No.

Harrell's, LLC

APR 1 0 2009

P. O. Box 807 * Lakeland, FL 33802