

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 2 4 2009

SUBJECT:

Application for Pesticide Notification (PRN 98-10)

Request Alternate Brand Name "Fertilizer W/Starteem #2%"

EPA Reg. No. 52287-11

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,

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Office of Pesticide Programs

Please read instructions on reverse before completing form

_	
V	

Registration
Amendmen
Other

OPP Identifier Number

Environmental Protection Agency			Amendr Other		- 1	•					
	Ap	plication for	or Pesticid	e - Secti	on	1		1			
1. Company/Product Numbe 52287-11	r		2. EPA Pi Joanne	roduct Mana I. Miller	ger		3	<u>ر</u> ت.	osed C None	lassific	ation Restricted
4. Company/Product (Name) Fertilizer with Starteem			PM# 23					<u>'</u>	140116		nestricted
5. Name and Address of App Harrell's LLC P. O. Box 807	plicant <i>(Include ZIP Code)</i>		(b)(i), my	product is		In accorda ilar or ident	ical ir	com		n and	labeling
Lakeland, FL 33802	is e new address		EPA Re	sg. No	I/A		······································	JUE	242	009	
		S	ection - II								
Amendment - Explain Resubmission in resp Notification - Explain Explanation: Use addition	onse to Agency letter dat			Final printed Agency lette "Me Too" Al Other - Expla	r date pplica	tion.	to to				
CFR 152.46, and no other ch 18 U.S.C. Sec. 1001 to willfu	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										
		S	ection - III								
1. Material This Product Wil	Be Packaged In:					-		· 			
Child-Resistant Peckaging Yes √ No * Certification must be submitted		No. per If	Yes No 'Yes" ckage wgt	No. per container		2. Type of	Met Ples Glas Pap	al tic ss	ecify)_		
3. Location of Net Contents	Information 4.	Size(s) Retail Co			5. Loc	cation of Lab			8	· · · · ·	
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glued Stenciled	50 lbs	Other		JOHAIIK					
			ection - IV	1					-		
1. Contact Point (Complete	items directly below for i	dentification of i	ndividual to be	contacted, it	f nece	essery, to pr	ocess	this a	pplicati	on.)	
Name Robert F. Bischoff		Title Age	nt, TotalTurf C	onsulting LI	LC		•		No. (Inc		rea Code)
l certify that the state I acknowledge that ar both under applicable	ments I have made on thi vy knowlinglly false or mis law,	Certification s form and all at leading stateme	tachments thei nt may be puni	eto are true, shable by fin	, accu e or i	irate and cor imprisonmen	nplete t or.		B. Date Recei	, • •	
2. Signature Reference	Broch !!	3. Tit Age	le nt, TotalTurf Col	nsulting LLC			ı			ı	
4. Typed Name Robert F. Bischoff	y d	5. Da		17, 200	9						

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 #2

EPA Reg. No. 52287-11

Notification of Alternate Brand Name

Dear Ms. Miller:

Enclosed labeling shows the addition of an alternate brand name (Fertilizer W/Starteem #2) 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

Releto, Buschoff

26 A. A. Cooper Road

Meigs, GA 31765

NOTIFICATION

A PRE-EMERGENCE HERBICIDE FOR USE ON GOLF COURSES, SOD FARMS, PARKS, ATHLETIC FIELDS, FEDERAL, MUNICIPAL, CORPORATE LAWNS

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

FOR SALE TO AND USE BY PROFESSIONAL APPLICATORS ONLY. NOT FOR USE BY HOMEOWNERS/CONSUMERS. FOR USE BY OR ON GOLF COURSES, SOD FARMS, COMMERCIAL NURSERIES, TURF MANAGEMENT FIRMS, MUNICIPAL, FEDERAL, AND CORPORATE PARK, LANDSCAPE, 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]	0.75%
Benfluralin (CAS No.1861-40-1).	
Trifluralin [CAS No.1582-09-8]	
OTHER INGREDIENTS:	
	Total 100.00%

EPA Reg. No. 52287-11

EPA Est. No. 52287-FL-1

GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N)	XX %
Ammoniacal Nitrogen	XX%
Urea Nitrogen	
Available Phosphoric Acid (P2O5)	
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.

<u>IF ON SKIN OR CLOTHING:</u> 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: 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

JUL 2 4 2009

A PRE-EMERGENCE HERBICIDE FOR USE ON GOLF COURSES, SOD FARMS, PARKS, ATHLETIC FIELDS, FEDERAL, MUNICIPAL, CORPORATE LAWNS

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 waterproof 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 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 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.

<u>PESTICIDE STORAGE</u>: 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. <u>PESTICIDE DISPOSAL</u>: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. <u>CONTAINER DISPOSAL</u>: 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 now offers the Golf Course Superintendent and Grounds Maintenance Managers the "tested" "STARTEEM-SPLIT". A pre-emergence weed control program that gets maximum benefit from commonly used pre-emergence crabgrass control products!

Controls Crabgrass, Goosegrass, Poa Annus, Annual Sedge and other 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. Here's how to do it. 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 <u>first</u> application; STARTEEM#2 (<u>a different formula</u>), is to be used as the <u>second</u> 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 aspalum, Tall Fescue and Zoysiagrass turf, at condominium complexes, corporate and public parks, golf courses, sod farms, athletic fields,

A PRE-EMERGENCE HERBICIDE FOR USE ON GOLF COURSES, SOD FARMS, PARKS, ATHLETIC FIELDS, FEDERAL, MUNICIPAL, CORPORATE LAWNS

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 for restrictions when using on Bentgrass. After applications if rain in 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 and #2 must be applied prior to weed seed germination (see map of U.S.). It will not control growing weeds.

Weeds Controlled	FIRST	SECOND	Directions	
Crabgrass (Digitaria,spp.) Goosegrass (Bleusine indica) Field Sandbur(Canchusincertus) Annual Sedge (Cyperuscompressus) Annual Bluegrass (Poa annua spp.) (See Note below)	APPLICATION STARTEEM #1 *Apply 200 lbs. product per acre equal to 4.6# / 1,000 sq. ft.	APPLICATION STARTEEM #2 or # Apply 200 lbs. pe acre equal to 4.6# / 1000 sq. ft.	See map for proper timing. Application made after April or 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) Stingling Nettle (Urtica dolca) Carpetgrass (Axonagus offinis)	Apply 200 lbs product per acre equal to 4.6# / 1,000 sq. ft.	Apply 200 lbs per acre equal to 4/6# / 1,000 sq. ft.		
Fall Ap	plication for Spring	Weed Control in	Cool Season Turf	
Crabgrass, Goosegrass and other annual weeds as listed	Apply 200 lbs per acre equal to 4.6# / 1,000 sq. ft.	Apply 200 lbs. pe acre equal to 4.6# / 1,000 sq. fl	For use in Bluegrass, Bentgrass, perennia Ryegrass and Tall Fescue. Make application in the fall after turf has become dormant. For late fall applications, seeding into treater areas should be delayed until 4 months after green up.	
Annual Bluegrass Contro	ol in Bermudagrass	Fairways Over se	eded with Perennial Ryegrass only	
Annual Bluegrass (Poa Annua spp)	200 lbs. / A	4.6# / 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 blue subspecies of Poa Annua. The true which germinates from seed every Annua spp. raptans" which behave the summer as an established plextension service or University winformation concerning your locale.	annual biotype, "POA A year is controlled while is like a perennial and ant, cannot be contro	Annua spp annua" the biotype, "Poa survives through	spp. established when this product is applied will not be controlled. It should not be applied closer than 60 days to over seeding. Do not use when Poa trivialis is present in the overseed mixture. Apply the full 200 lb. Rate per acre in one application.	
			ent from Sprigs of	
Bern	nudagrass, Zoysia	agrass and Seas	hore Paspalum	
Crabgrass and Goosegrass, Annual weeds.	Sedge and other ann	ual 200 lbs. / per a	cre 200 lbs. / per acre	
For Bermudagrass make application in 14 days after sprigging. Applications	made close to the tapplication may disrupt	ime of sprigging ma the herbicide barrier	ging. For Seashore Paspalum make application 10 to y cause objectionable Seashore Paspalum injury and reduce effectiveness. For best results sprinkle	

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 1.5 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. 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.

A PRE-EMERGENCE HERBICIDE FOR USE ON GOLF COURSES, SOD FARMS, PARKS, ATHLETIC FIELDS, FEDERAL, MUNICIPAL, **CORPORATE LAWNS**

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 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 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 Annual Sedge *Barnyardgrass

Bittercress Carpetweed Carpetorass

Common Groundsel Common Purslane Crabgrass

*Evening Primrose Fireweed

Field Sandbur Foxtail; Green, Bristly

Fall Panicum Florida Puslev *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

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 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.

A PRE-EMERGENCE HERBICIDE FOR USE ON GOLF COURSES, SOD FARMS, PARKS, ATHLETIC FIELDS, FEDERAL, MUNICIPAL, CORPORATE LAWNS

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

Use STARTEEM #1 then STARTEEM #2 as a SPLIT application for control of these weeds. For "hard-to-kill" weeds with asterisk, use STARTEEM #3 as the Second Application.

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

P.O. BOX 807 Lakeland, FL 33802

Batch No.

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

EXTABLISHED OR NAMERT	ALS & GROUND COVERS	ESTABLISHED OR NAMEN	TUS & GRO
COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFI
Abutilon	Abutilon pictum	Heather, Scotch	Calluna vu
	Heliotropium	Heliotropium arborasc	
Acacia	Acacia spp.	Hemlock, Canada	Tsuga Cana
Agapanthus	Agapanthus africanis	Hibiscus	Hisbiscus,
Allamanda, common Andromeda	Allamanda cathartica Pieris spp.	Honeysuckle Holly	llex, spp.
Aralia	Aralia spinosa	Ice Plant	Carpobrotu
Arborvita	Thuja spp.	llima	Sida fallax
Ash, Green	Frzinus pennsylanica	lvy, Algerian	Hedera car
Azalea Dataia Damant	Rhododendron	lvy, English	Hedera he
Baby's Brreath Bald Cypress	Gypsophila paniculate Takodium distichum	lasmine, Orange lasmine, Primrose	Murray pa Jasminum
Bamboo. Feathery	Bambusa vulgaris	Jasmine, Star Trachel	osnemum i:
Bamboo, Feathery Banyan, Weeping	Ficus benghalensis	Jasmiine, Showy	Jasminum
Barberry	Berberis spp	Juniper	Juniperis,
Beefsteak Plant	Acalypha wilkesiana	ustica	Justice bra
Bearbery Rooch European	Arctostaphylos uva-ursi	Kwanzan Cherry	Prunus ser
Beech, European Birch, Paper	Fagus sylvatica Betula papyrifera	Lamb's Ear Lantana, Trailing	Stachys by Lantana m
Blanket Flower	Gaillardia aristate	Lapalapa	Cheirodeno
Blazing Star	Liatris spicate	Larch, European	Larix decid
Boxwood, Japanese	buxus microphylia	Laurel, English	Prunus lau
Boxwood,Common	Buxus semperirens	Leopards — Bane	Doronicum
Bouganvillea	Bounganvillea spectablis	Leucothoe, Coast	Leucothoe
Brassaia, Dwart	Brassaia actinophylia	Leucothoe, Drooping	Leucothoe
Buddleia Bugleflower	Buddleai davidii	(catesbaei	Ameanthu
Callistemon	Ajuga reptans Callistemon lanceolata	Lily of the Nile Lilac	Agapanthu syringa, sp
Camelia, common, Jap		Littleleaf Linden Tilia	
Camelia, Sasanque	Camelia sasanqua	Loquat	Eriobotrya
Candytuft	lberis sempirirons	Magnolia	Magnolia,
Carissa	Carissa macrocarpa	Mahonia, Grape Holly	
Camation	Dianthus caryophyllus	Money Tree	Pleomale
Ceanothus Cedar, Red	Ceanothus americanus	Murraea Murraea	Murraea e Murraea e
Cedar, Atlas	Juniperus virginiana Cedrus atlantica	Murraea	Murraea p
Cistus	Cistus purpureus	Myoporum	Myoporum
Citrus, Ornamental	Myrde	Myrtus communis	7.1
Grapefruit	Citrus paradisi	Nandina	Nandina d
Lemon Lime	Citrus Limon	Oak Oshona	Quercus, s
Enne Mandarin	Citrus aurentifolia Bears Citrus reliculate	Ochana Ohai	Ochana se Samanea s
Tangelo	Citrus Xtangelo Minneola	Oleander	Oleander
Tangerine	Citrus reliculate var.tangerine		Orthiosiph
Temple	Citrus Xnobilis Temple	Osmanthus	Osmanthu
Cuban Shaddock	Citrus maxima	Pachysandra	Pachysand
Valencia V	Citrus sinensis	Palm, Bamboo	Rhapi exc
Washington Navel	Citrus sinensis	Palm Fishtail	Caryota, s
Cleyera Coreopsis	Cleyera japonica Coreopsis lanceolate	Palm, Licuala Palm Macarthur	Licualo Th Plychosper
Coromandel	Assuntainin assummation	Palm, Mabnee	Euterpe, s
Cotoneaster	Cotoneaster, spp.	Palm manila	Veitchia m
Crabapple	Malus, spp.	Palm, Parlor	Collinia el
Crapemyrtle	Lagerstroemia indica	Palm Rattan	Deemonor
Chrysanthemum	Chrysanthemum, spp.	Palm, Scaling Wax	Cytrostach
Cypress Cypress Levland	Cupressus, spp.	Palm, Sugar Paperbark Tree	Arenge sa
Cypress, Leyland Dahlia	Cupressocyparis leylandii Dahlia, spp	Peony	Melateuca Peonia, sp
Daphne, Fragrant	Daphne odora	Periwinkle, common	Vinca min
Deutzia, Slender	Deutzis gracilis	Periwinkle, Large	Vinca majo
Dieffenbachia	Dieffenbachia, spp.	Photinia, Frasiers	Photinis fi
Dogwood, Common	Comus florida	Poinciana	Dolonix re
Dogwood, Redosier Dogwood, Kousa	Comus stolendera	Pine Pittosnorum Jananese	Pinus spp.
Douglas fir	Comus kousa Psaudotsura manziasii	Pittosporum, Japanese Plum, Natal	
Elm	Pseudotsuga menziesii Ulimus, spp.	Podocarpus, Yew	Carissa ma Podocarpu
Escallonia	Escallonia, spp.	Pomegranite	Punica gra
Eucalyptus	Eucalyptus, spp.	Poplar	Populus s
Euryops, Gray Leaved	Euryops pectinatus	Potentilla	Potentilla
Euonymus, Spreading	Euonymus kiautshavicus	Potentilla	Potenitilla
Euonymus, Wintercreep		Privet	Ligustrum,
Falsecypress, Hinoki	Chaemeacyparis obtuse	Protea species	Banksis m
Falsecypress, Japanese Flowering Outpre	Chaemeacyparis pisifera		Leucodend
Flowering Quince Forsythia	Chaenomeles speciosa Forsythia intermedia		Leucosperi Cordifoliur
Gardenia	Gardenia iazminoides		Protez exi

EXTABLISHED OR LAMEN	FALS & GROUND COVERS
	SCIENTIFIC NAME
Heather, Scotch	Calluna vulgaris
Heliotropium arborasc	
Hemlock, Canada	Tsuga Canadensis
Hibiscus Honeysuckle	Hisbiscus, spp. Lonicera, spp.
Holly	ilex, spp.
Ice Plant	Carpobrotus edule
llima Ivy, Algerian	Sida fallax Hedera canariensis
lvy, English	Hedera helix
Jasmine, Orange	Murray paniculeta
Jasmine, Primrose	Jasminum mesyni
Jasmine, Star Trachelo Jasmiine, Showy	Jasminum floridum
uniper	Juniperis, spp.
Justica	Justice brandegeana
Kwanzan Cherry Lamb's Ear	Prunus serrulata Stachys byzantina
Lantana, Trailing	Lantana montividensis
Lapalapa	Cheirodendron, spp.
Larch, European	Larix deciduas
Laurel, English	Prunus laurocerasus Doronicum cordatum
Leucothoe, Coast	Leucothoe exillaris
Leopards — Bane Leucothoe, Coast Leucothoe, Drooping	Leucothoe fontanesia
(catesbaei	Account has markelletus
Lily of the Nile Lilac	Agapanthus, umbeliatus syringa, spp.
Littleleaf Linden Tilia	
Loquat	Eriobotrya japonica
Magnolia	Magnolia, spp.
Mahonia, Grape Holly Money Tree	Mahonia aquifolium Pleomale marginata
Murraea	Murraea exotica
Murraea	Murraea exotica
Murraea Myonorum	Murraea paniculata Myoporum laetum
Myoporum Myrtus communis	11yoporum saetum
Nándina	Nandina domestics
Oak Ochana	Quercus, spp.
Ohai	Ochana serrulate Samanea samanerium
Oleander	Oleander
Orthosiphon	Orthiosiphon stamineus
Osmanthus Pachysandra	Osmanthus heterophyllus Pachysandra terminalis
Palm, Bamboo	Rhapi excelsa
Palm Fishtail	Caryota, spp.
Palm, Licuala	Licualo Thumb.spp.
Palm Macarthur	Plychosperme macarthuri
Palm, Mabnee Palm manila	Euterpe, spp Veitchia merillii
	Collinia elegans
Palm, Parlor Palm Rattan	Deemonorops, spp.
Palm, Scaling Wax Palm, Sugar	Cytrostachuys lakka Arenge sacchanifera
Paperbark Iree	Melateuca leucandendra
Peony	Peonia, spp.
Periwinkle, common Periwinkle, Large	Vinca minor
Photinia, Frasiers	Vinca major Photinis frasieri
Poinciana	Dolonix regea
Pine	Pinus spp.
Pittosporum, Japanese Plum, Natal	Carissa macrocarpa
Podocarpus, Yew	Podocarpus macrophyllis
Pomegranite	Punica granatum
Poplar Potentilla	Populus spp.
Potentilla Potentilla	Potentilla fruiticosa Potenitilla fragiformis
Privet	Ligustrum, spp
Protea species	Banksis menresi
•	Leucodendron discolor
	Leucospernum Cordifolium
_	Protea exinia
Pyracantha Ranhiolenis	Pyracantha coccinea Raphiolenis umbellate

ESTABLISHED ORBANEN	TALS & GROUND COVERS	ESTABLISHED ORNA	HENT ALS & GROUND COVERS
COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME
Rose, spp.	Rose, spp.	Sweet William	Dianthus barbatus
Russian Olive	Eleagnus angustifoli	Syzygium	Syzygium paniculatum
Sargent Cherry	Pruus sergentii	Trailing African Daisy	Osteospermum fruticosum
Scotch Broom	Cytisus scoparius	Viburnum	Viburnum, spp.
Sedum	Sedum album	Wedelia	Wedelia trilobata
Serviceberry, Saskatoo	n* Amelancheir ainifolia	Wisteria, Chinese	Wisteria sinensis
Spruce	Picea, spp.		Hamamelis virginiana
Statice	Limonium, spp.	Woadwaxen, common	Genista tinctori
St. Johnswort, Golden St. Johnswort, Golden			
Strawberry Tree	Arbulus unedo	Wooly Thyme	Thymus
Sumac, Staghorn	Rhus typhina	Xylosma Yew	pseudolanugirosis Taxus spp.
For use on pl	ants that will not b	ear edible fruit w	ithin 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
Carnation	Diianthus caryophyllus
Cedar, Red	Juniperus atlantica
Coromandel	Asystesia gangentica
Dogwood, Flowering	Cornus florida
Elm	Ulmus, spp.
Forsythia	Forsythia intermedia
Gazania Trailing	Gazania uniflora leucoleana
Gazánia, Trailing	Celtis occidentalis
Hackberry	Hedera canariensis
lvy, Algerian	Hedera Helix
lvý, English	
Hémlock, Canada	Tsuga canadensis
Holly	llex, spp.
Ice Plant	Carpobrotus edule
Juniper	uniperus, 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	Briksia menlesii
	Leucadendron discolor
	Leucospernum
	Cordifolium
	Protea exinia
Rhododendron	Rhododendron, spp.
Russian Olive	Eleagnus angustifolia
Spruce	Picea, spp.
Trailing African Daisy	Osteospernum fruticosum
Wedelia	Wedelia trilobata
14.00	

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, Chinese

Wedelia trilobata Wisteria sinensis

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. 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 of foliage and down to soil level. Do not apply in greenhouses as plant injury may likely result.

20090617.Final Label

Gardenia jazminoides

Koelreuteria paniculata

Ginko biloba

Gladiolus, spp.

Gazania uniflora / eucoleana

Raphiolepis

Redwood, Dawn

Rhododendron.

Gardenia

Gladiolas

Ginko

Gazania Trailing

Golden Raintree

Raphiolepis umbellate Metasequoia glyphostraboides Rhododendron spp.

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

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 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

Approximate Date

After May 30 After May 10

After April 20 After March 20

January 1 to March 20

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. Leuchtenfuer, Memoire John Hearrens, Hino Crimson, White Grandeur, Everest, Girard Roberta
Cotoneaster	Eichholz, Himalayan, Shangri-Ia (Cotoneaster spp) Petite Red Imperial, and Seminole Bush
Crapemyrde	Petite Red Imperial, and Seminole Bush
(Lagerstroemis indica)	·
Heath, Spring	Mediterranean Pink
(Erica cameo)	
Hemlock, Canada	Pendula
(Tsuga Canadensis)	
Hibiscus (Hibiscus Syriacus)	Ked Heart
Khododendron	Daphnoides, Nova Zentia, Khododendron spp, Calawba Album
Spruce, Norway (Picea ables) Spruce, White (Picea glauca)	Pumila
Spruce, White (Picea glauca)	Densata
Viburnum	Davidii
(Viburnum spp)	

EPA Reg. No. 52287-11

EPA Est. No. 52287-FL-1

Net Weight 50 Pounds

Batch No.

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