

43854-8

03/31/2000

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US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

43854-8

DATE OF ISSUANCE

MAR 31 2000

NOTICE OF PESTICIDE:

☒ REGISTRATION
☐ REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Lange[™] Turf Formula Dimension[®] 125
Preemergence Weed Control with Plant Food

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Lange-Stegmann Company
One Angelica Street
St. Louis, Missouri 63147

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 3(c)(5), provided that you:

1. Add the phrase "EPA Registration No. 43854-8" to the label before you release the product for shipment.
2. Submit one (1) copy of the final printed label, before you release the product for shipment under the stamped enclosed label.

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

Enclosure

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

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

MAR 31 2000

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ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 31 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
43854-8

LANGE® Turf Formula
DIMENSION®125
Preemergence Weed Control with Plant Food
(XX-XX-XX)

Dimension® is a selective herbicide that provides Preemergence control of listed annual grasses, such as crabgrass, broadleaf weeds in ornamental landscape areas, established lawns and ornamental turf, including golf course fairways, roughs and tee boxes.
Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

In New York State this product may only be used by professional applicators at no more than 400 pounds (0.5 pounds active ingredient) per acre per year and is prohibited from use in Nassau and Suffolk Counties.

ACTIVE INGREDIENT:

*Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-
4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethylester..... 0.125%

INERT INGREDIENTS: 99.875%
100.000%

*This product contains 0.0625 pounds of the active ingredient, dithiopyr, per 50 pound bag. Product protected by U.S. Patent No. 4,692,184. Other patents pending.

50 pound bag treats up to 21,780 square feet for crabgrass control.

EPA REG NO. 43854-

EPA EST. NO. 43854-MO-1

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

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

KEEP OUT OF REACH OF CHILDREN
CAUTION

First Aid: If in Eyes – Immediately flush with plenty of water. Get medical attention if irritation persists.
If Inhaled – Remove individual to fresh air. Seek medical attention if breathing difficulty develops.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION! Causes eye irritation. Harmful if inhaled. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Prolonged or frequently repeated skin contact while handling this material may cause allergic reaction in some individuals.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and highly toxic to other aquatic organisms including oysters and shrimp. Use with care when applying to turf areas adjacent to any body of water. Drift and runoff from treated turf may adversely affect aquatic organisms in adjacent aquatic sites. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

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

STORAGE AND DISPOSAL

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

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

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

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

CONDITIONS OF SALE AND WARRANTY

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

GENERAL INFORMATION FOR TURF USE

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

USE PRECAUTIONS

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

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

Cool-Season Grasses

bentgrass, creeping*
bluegrass, Kentucky
fescue, fine**
fescue, tall
ryegrass, perennial

Agrostis stolonifera
Poa pratensis
Festuca rubra
Festuca arundinacea
Lolium perenne

Warm-Season Grasses

bahiagrass
bermudagrass
buffalograss***
carpetgrass
centipedegrass
kikuyugrass
St. Augustinegrass
zoysiagrass

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

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

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

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

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

Reseeding, Overseeding or Sprigging

Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may prevent the establishment of desirable turfgrasses. When reseeding or overseeding, proper cultural practices such as soil cultivation, irrigation and fertilization should be followed. For best results, use mechanical or power seeding equipment (slit seeders) designed to give good seed-to-soil contact.

Golf Course Putting Greens

Do not use this product on golf course Putting Greens.

Other Use Precautions

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

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

APPLICATION DIRECTIONS – Control of Crabgrass

Preemergence and Early Postemergence Control

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

Application Frequency and Timing

- This product may be applied as a single application or as a split application for crabgrass control in the spring summer or fall.
- Do Not apply more than 9.24 lb. of this product/1000sq.ft. per year. Do not apply in Nassau and Suffolk Counties of New York.

Spring Applications

- For single applications made in the spring or early summer, this product should be applied at the appropriate rate corresponding to one of the control programs listed in Table 1 below, depending on the user's location, the turfgrass mowing height, and whether the use is preemergence or early post emergence at the time of application.
- Use Program 1 (given in Table 1, below) for the preemergence control at sites where the turfgrass is cut high (e.g., homeowner lawns). This program provides 3-5 months of preemergence crabgrass control. This program should not be used for early postemergence crabgrass control.
- Use program 2 for preemergence control at sites where (a) turfgrass is cut low (e.g. golf fairways), and (b) turfgrass maintenance or weed control has not been conducted during the previous year. This program provides 4-6 months of preemergence crabgrass control. This program may also be used for early postemergence control of crabgrass.

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- Where split fertilizer applications are recommended, a rate in Table 1 may be applied in two applications made 6-10 weeks apart and prior to crabgrass emergence.

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

Program Use (turfgrass cut)	1 Preemergence (high)	2 Preemergence (low) Postemergence
Region		
North	2.31	4.62
Transition	3.36	6.72
South	4.62	9.24
Coastal South	6.72	9.24**

*DO NOT apply more than 9.24 lb of this product/1000sq.ft. per application, and no more than 27 lb. (9.24 lb. in New York) of this product/1000sq.ft. per year. Post emergence control is limited; see "Crabgrass Control" and "Precautions" sections above. Regions include areas listed below.

North: all other areas.

Transition: DE, KS, KY, MD, MO, NJ, VA, southern PA, southern areas of IL, IN, OH & coastal areas of CT, NY, & RI.

South: AL, AR, AZ, CA, GA, LA, MS, NC, NM, NV, OK, SC, TN, & TX.

Coastal South: HI, FL, & southern coastal areas of AL, GA, LA, MS, NC, SC, & TX.

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

Fall Applications

- This product can also be applied in the late summer or early fall (late August through November) at the "Program 2" use rates listed in table 1 to provide control of crabgrass through the early part of the next spring.
- The fall application must be followed by an appropriate spring application to provide season-long control.

Tips for Improved Control

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

Control of Other Grass and Broadleaf Weeds

Spring Applications

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

barnyardgrass

bluegrass (annual, roughstalk)

crowfootgrass

Lespedeza (common)

oxalis (buttercup, creeping &
yellow woodsorrel)

foxtail (green & yellow)*

goosegrass

kikuyugrass

ryegrass (annual & perennial)

*Also controlled at the Program 2 rates.

purslane (common)

speedwell (corn)

spurge (prostrate & spotted)

smutgrass

Fall Applications

bluegrass (annual, roughstalk)

bittercress

chickweed

henbit

geranium (Carolina)

parsley-piert

pineappleweed

sheperdspurse

APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product with drop or rotary-type centrifugal spreaders designed to apply granular herbicides. Calibrate application equipment before using and apply this product uniformly over the turfgrass area. *A more uniform application can be made by spreading one half of the required amount over the area and then applying the remaining one half at a right angle to the previous, *(see spreader settings for half rate). Avoid the use of spreaders that would apply this product in narrow rows or concentrated bands. Avoid streaking, skips, or overlaps during application. Check equipment frequently to ensure equipment is functioning properly and delivering uniform distribution of granules.

GENERAL INFORMATION - LANDSCAPE ORNAMENTALS

This product provides preemergence control of listed annual grass and broadleaf weeds in landscape ornamentals. It may be applied to soil surfaces where ornamental plants are grown for aesthetic purposes in ornamental gardens, parks, golf courses and residential properties.

Ornamental plants on this label have shown tolerance to this product when applied as directed. It is impossible, however, to evaluate tolerance for all ornamental plant species or varieties or under all possible growing conditions. Under your growing conditions, a limited area involving only a few plants should be treated for tolerance evaluation prior to large-scale applications.

USE RATES

Apply this product with a properly calibrated spreader that will assure accurate, even particle distribution. This product may be applied as a single application or as a split application. Refer to the following table for product recommendations when treating a small area.

DO NOT apply more than 9.24 lb. of this product/1000 sq.ft. per application, and no more than 27 lb. (9.24 lb. in New York) of this product/1000 sq.ft. per year. Do not apply in Nassau and Suffolk counties of New York.

Pounds Product/Acre	lbs Product/1000 Square Feet	lb Product/100 Square Feet
400	9.24	0.92

APPLICATION TIMING AND RECOMMENDATIONS

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

PRECAUTIONS

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

TOLERANT ORNAMENTALS

When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials. However, this product has not been tested on all cultivars of each species or under all possible growing conditions. Follow directions given above to determine plant tolerance under your growing conditions prior to large-scale use.

Common Name	Botanical Name	Tolerant Cultivars
Abelia, Dwarf	<i>Abelia X grandiflora</i>	Nana
Ajuga	<i>Ajuga reptans</i>	Bronze
	<i>Ajuga genevensis</i>	Bronze Beauty
Almond, Flowering	<i>Prunus gladulosa</i>	
Apple*	<i>Malus pumila</i>	
Arborvitae	<i>Thuja occidentalis</i>	Nigra
		Pyramidalis
		Smaragh
		Techny
		Woodwardii
Arborvitae, Golden	<i>Thuja orientalis</i>	
Aster, Chinese	<i>Callistephus chinensis</i>	Dwarf Queen
Ash, Green	<i>Fraxinus pennsylvanica</i>	
Ash, Mountain	<i>Sorbus aucuparia</i>	
Ash, Purple	<i>Fraxinus americana</i>	
Azalea	<i>Rhododendron spp.</i>	Brilliant
		Buccaneer
		Carror

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		Chimes (Belgian)
		Exbury
		Fashion
		Hardijzer Beauty
		Hershey Red
		Higasa
		Hinocrimson
		Holland (Hybrid)
		Marion Lee
		Northern Lights
		Orange Cup
		Orchid Lights
		Snow
		Southern Charm
Azalea, Flame	<i>Rhododendron</i> <i>calendulaceum</i>	
Azalea, Kirishima		
Bamboo, Heavenly	<i>Nandina domestica</i>	
Barberry	<i>Berberis thunbergii</i>	Aurea
		Dwarf Pigmy
		Green
		Kobold
		Pygmy Red
		Rose Glow
		Atropurpurea
		Massachusetts
Barberry, Purple	<i>Berberis vulgaris</i>	Bluecrop
Bearberry (common)	<i>Arctostaphylos uva-ursi</i>	Blue Jay
Birch, River	<i>Betula nigra</i>	Jersey
Blueberry*	<i>Vaccinium spp.</i>	North Blue
		Northland
Bottlebrush	<i>Callistemon citrinus</i>	Japonica
Boxwood, Japanese	<i>Buxus microphylla</i>	
Boxwood, Weller	<i>Buxus sempervirens</i>	
Broom	<i>Cytisus spp.</i>	Moonlight
Broom	<i>Genista pilosa</i>	Vancouver Gold
Bugleweed Carpet	<i>Ajuga reptans</i>	
Carex, Variegated	<i>Carex</i>	
Camellia	<i>Camellia japonica</i>	Debutante
		Mathotiana Supreme
		Chansonette
	<i>Camellia sasangua</i>	
	<i>Juniperus virginiana</i>	
Cedar, Red	<i>Celosia cristata</i>	Red Kewpie
Cockscomb, Plumosa	<i>Coleus blumei</i>	
Coleus	<i>Acalypha wilkesiana</i>	
Copper leaf		

Cotoneaster
Cycads
Coyotebrush
Cypress, Bald
Cypress, Italian
Cypress, Leyland
Cypress, Japanese False
Daffodil
Daylilly

Dogwood
Dogwood, American
Douglas Fir
Dusty Miller
Elm, Drake
Euonymus

Fan Palm, European
Fan Palm, Mexican
Fescue
Fetterbush
Ficus
Fir, Fraser
Forsythia

Gardenia
Geranium
Gum
Hawthorn

Cotoneaster apiculatus
Cycads revoluta
Baccharis pelularis
Taxodium distichum
Cupressus sempervirens
Cupressocyparis leylandii
Chamaecyparis obtusa
Narcissus spp.
Heimerocallis spp.

Cornus florida
Cornus sericea
Pseudotsuga menziesii
Senecio cineraria
Ulmus parvifolia
Euonymus fortunei

Chamaerops humilis
Washingtonia robusta
Festuca glauca
Leucothoe fontiana
Ficus retusa
Abies fraseri
Forsythia X intermedia

Spring Glory
Gardenia jasminoides
Pelargonium X hortorum
Eucalyptus citriodora
Crataegus spp.

Glaucia
Gracilis
King Alfred
Aztec Gold
Bright Yellow
(Hybrid)
Single Gold
(Evergreen)
Wilson's Yellow

Flavarimaea

Argenteo-variegata
Auereo-marginata
Colorata
Emerald Gaiety
Emerald 'N Gold
Gold Edge
Gold Princess
Silver King
Tricolor
Vegetus

Rainbow
Nitidia

Arnold Dwarf
Bronxensis Dwarf
Lynwood Gold
Meadowlark
Weeping
Mystery Radicans
Cockspur White
Crimson Cloud
Enchantress
Jack Evans

Heather, Twisted Hibiscus	<i>Erica cinerea</i> <i>Hibiscus spp.</i>	Washington White Mediterranean Pink Brilliant Hula Girl Blue Bird
Hemlock, Canada Holly	<i>Tsuga canadensis</i> <i>Ilex spp.</i> <i>Ilex X meserveae</i>	Blue Boy Blue Girl Burfodii China Girl Compacta Forsteri Hellerie Japanese Northern Beauty Needlepoint Nellie R. Stevens Savanah
Holly, Chinese Holly, Japanese Holly, Yaupon Honeysuckle	<i>Ilex X attenuata</i> <i>Ilex cornuta</i> <i>Ilex crenata</i> <i>Ilex vomitoria</i> <i>Lonicera japonica</i>	Clavey's Dwarf Halliana Tatarian Canadian White Zebelli Red Hosta Albo Marginata
Hosta	<i>Hosta spp.</i>	
Ice Plant	<i>Hosta lancifolia</i>	
Impatiens	<i>Carpobrotus edulis</i>	
Iris	<i>Impatiens wallerana</i> <i>Iris spp.</i>	Wedgewood Dwarf Blue Bulgaria Thorndale
Ivy, English	<i>Hedera helix</i>	
Jasmine, Asian	<i>Trachelopermum asiaticum</i>	
Juniper	<i>Juniperus spp.</i> <i>Juniperus horizontalis</i> <i>Juniperus horizontalis</i>	Arcadia Armstrong Bar Harbor Blue Chip Blue Pacific Blue Rug Blue Star Broadmoor Buffalo Calgary Carpet Emerald Sea

		Emerald Spreader
		Endora Compacta
		Fruitlandi
		Green
		Gold Tip
		Hetzi
		Hughes
		Manhattan Blue
		Parsoni
		Pfitzeriana
		Plumosa
		Prince of Wales
		Procumbens Dwarf
		San Jose
		Sargent Blue
		Sargent Green
		Scandia
		Scopulorum Moonglow
		Scopulorum Skyrocket
		Spartan
		Tamariscifolia
		Weberi
		Youngstown
		Yukon Belle
	<i>Juniperus chinensis</i>	
	<i>Juniperus sabina</i>	
King Palm	<i>Archontophoenix</i>	
	<i>cunninghamiana</i>	
Laurel, Australian	<i>Pittosporum tobira</i>	
Laurel, Mountain	<i>Kalmia latifolia</i>	
Leucothoe	<i>Leucothoe fontanesiana</i>	
Ligustrum, Japanese	<i>Ligustrum japonicum</i>	
Lily, Africian	<i>Agapanthus africanus</i>	
		Albus
		Peter Pan
Lily, Africian Blue	<i>Pieris japonica</i>	
Lily of the Valley	<i>Liriope muscari</i>	
Lilyturf		
		Mt. Fire
		Evergreen Giant
		Lilac Beauty
		Majestic
		Monroe White
		Variegata
Liriope, Green	<i>Liriope spicata</i>	
Maple, Japanese	<i>Acer japonicum</i>	
Maple, Norway	<i>Acer platanoides</i>	
Maple, Red	<i>Acer rubrum</i>	
Maple, Silver	<i>Acer saccharinum</i>	
Maple, Sugar	<i>Acer saccharum</i>	
Marigold	<i>Tagetes patula</i>	
		Honeycomb
		Wheeler's Dwarf

Mock Orange*	<i>Philadelphus spp.</i>	Variegata
Mondo Grass	<i>Ophiopogon japonicus</i>	Golden
Moss Rose	<i>Portulaca grandiflora</i>	Snowflake Double White
Myrtle, Crape	<i>Lagerstoemia indica</i>	Sunnyside
		Faurei
		Langer
		Muskogee
		Standard Pink
Myrtle, Wax	<i>Myrica cerifer</i>	Compacta
Nadina	<i>Nadina domestica</i>	Nana
Oleander	<i>Nerium oleander</i>	Hardy Red
		Petite Pink
		Sister Agnes
Oak, Laurel	<i>Quercus laurifolia</i>	
Oak, Pin	<i>Quercus palustris</i>	
Oak, Red	<i>Quercus rubra</i>	
Oak, Southern L	<i>Quercus virginiana</i>	
Oak, Willow	<i>Quercus phellos</i>	
Osteospermum	<i>Osteospermum fruticosum</i>	Wirligig
Palm, Bangalow		
Pampas Grass	<i>Cortadaria selloana</i>	
Paper Flower	<i>Bougainvillea glabra</i>	Barbara Karst
Pachysandra	<i>Pachysandra terminalis</i>	
Peach*	<i>Prunus persica</i>	
Periwinkle, Dwarf	<i>Vinca minor</i>	
Petunia	<i>Petunia X hybrida</i>	Picoti
Photinia, Red Tip	<i>Photinia X fraseri</i>	
Pieris	<i>Pieris japonica</i>	
Pine, Australian	<i>Pinus nigra</i>	
Pine, Japanese Black	<i>Pinus thunbergiana</i>	
Pine, Loblolly	<i>Pinus teada</i>	
Pine, Longleaf	<i>Pinus palustris</i>	
Pine, Mugho	<i>Pinus mugho</i>	
Pine, Scotch	<i>Pinus sylvestris</i>	
Pine, Slash	<i>Pinus elliottii</i>	
Pine, Swiss Mt.	<i>Pinus mugo</i>	
Pine, Virginia	<i>Pinus virginiana</i>	
Pine, White	<i>Pinus strobus</i>	
Pineapple, Guava	<i>Feijoa fellowaiana</i>	
Pittosporum, Japan		
Potentilla	<i>Potentilla fruticosa</i>	Abbotsweed
Privet	<i>Ligustrum japonicum</i>	Golden Vicary
		Regal
		Texanum
		Yellow Tipped

Privet, Glossy
Pyracantha

Queen Palm

Quince, Japanese*
Rhododendron

Rhododendron, Carolina

Rhododendron, Catawba

Rodie Max (Rosebay)

Rose

Rosemary*

Rosemary, Bog

Salvia

Sedum

Spiraea, Perennial
Spiraea

Spiraea, Garland

Spruce, Black Hills

Spruce, Colorado Blue

Spruce, Norway

Spruce, White

Sourwood

Sweetflag, Grassyy-Le

Sweetgum

Sycamore

Tree Fern (Tiki Fern)

Trumpet Flower, Evening

Tulip

Verbana, Shrub

Vervain

Ligustrum lucidum
Pyracantha koidzumii

Arecastrum
rammanzoffianum

Rhododendron spp.

Rhododendron
carolinianum

Rhododendron catawbiense

Rhododendron maximum

Rosa banksiaae

Rosmarinus officinalis

Andromeda polifolia

Salvia farinacea

Sedum spurium

Astilbe X arendsii
Spiraea spp.

Spiraea spp.

Picea glauca

Picea pungens

Picea abies

Picea glauca

Oxydendrum arboreum

Liquidambar styraciflua

Platanus occidentalis

Asparagus virgatus

Gelsemium sempervirens

Tulipa, spp.

Lantana sellowiana

Verbena spp.

Wax

Gnome
Lalandei
Victory

Album
Cunningham White
Fashion
Hardy
PJM
Purple Gem
Silvery Pink

Luta

Nana

Rhea

Dragon Blood Red

Red Carpet

Yellow

Fanall

Anthony Waterer Red

Dolchica

Froebeli Pink

Goldenflame Red

Snowmound White

Van Houtte White

Conica

Apeldoorn

St. Paul

Viburnum	<i>Viburnum spp.</i>	American Cranberry Bush
		Arrowwood
		Common Snowball
		European Cranberry Bush
		Linden
		Mohican
		Wright
Windmill Palm	<i>Trachycarpus fortunei</i>	
Xylosma	<i>Xylosma congestum</i>	
Yaupon	<i>Ilex vomitoria</i>	Dwarf
Yew	<i>Taxus cuspidata</i>	Denisiformis
	<i>Taxus X media</i>	

*Ornamental species only:

DO NOT USE ON FOOD PRODUCING TREES AND ORNAMENTALS.**WEEDS CONTROLLED**

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

GRASSES

barley

Hordeum spp.

barnyardgrass

Enchinochloa crus-galli

bluegrass, annual

Poa annua

brome

Bromus spp.

crabgrass, large

Digitaria sanguinalis

crabgrass, smooth

Digitaria ischaemum

crabgrass, Southern

Digitaria ciliaris

crowfootgrass

*Dactyloctenium aegyptium***BROAD LEAF WEEDS**

bittercress

Cardamine spp.

carpetweed

Mollugo verticillata

chickweed

Stellaria spp.

geranium, Carolina

Geranium carolinianum

henbit

Lamium spp.

knotweed, prostrate

Polygonum saviculare

lespedeza, common

*Lespedeza striata**Dactyloctenium aegyptium*

marestail

Hippuris vulgaris

medic, black

Medicago lupulina

mustard

Brassica spp.

oxalis, buttercup

Oxalis pes-caprae

dallisgrass (seedling)

Paspalum dilatatum

goosegrass

Eleusine indica

foxtail, green

Setaria verdi

foxtail, yellow

Setaria faberi

kikuyugrass

Pennisetum clandestinum

oats, wild

Avena fatua

ryegrass (annual & perennial)

Lolium spp.

smutgrass

Sporobolus poireti

Pineappleweed

Matricaria matricarioides

pigweed, redroot

Amaranthus retroflexus

parsley-piert

Alchemilla arvensis

purslane, common

Portulaca oleracea

rocket, London

Sisymbrium irio

shepherdspurse

Capsella bursa-pastoris

speedwell, corn

Veronica arvensis

spurge, garden

Euphorbia hirta

spurge, prostrate

Euphorbia humistrata

spurge, spotted

Euphorbia maculata

woodsorrel, creeping

Oxalis corniculata

woodsorrel, yellow

*Oxalis stricta***APPLICATION EQUIPMENT AND INSTRUCTIONS**

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

Check equipment frequently to ensure equipment is functioning properly and delivering uniform distribution of granules.

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