

PM 23

43854-3

1/21/99

1 of 16

JAN 21 1999

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Mr. Timothy J. Healey  
 Lange-Stegmann Company  
 One Angelica Street  
 St. Louis, MO 63147

Dear Mr. Healey:

Subject: Lange Brand Dimension® Granules Turf Herbicide  
 EPA Registration No. 43854-3  
 Applications and Letters Dated September 21, 1998; and  
 January 4, 1999, Request To Amend Registration by  
 Adding Claims for Use on Landscape Ornamentals and To  
 Revise Dosages Rates; with Resubmission with Updated  
 Certification with Respect to Citation of Data

The proposed amendments to the subject pesticide product registration have been review and found acceptable for registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

1. Delete the restriction from the front panel that reads: "Reformulation or Repackaging is Prohibited". This claim must be supported with information that indicates that it would be unsafe to reformulate or repackage this product.
2. Submit one (1) copy of your final printed label prior to your shipment of the subject pesticide product under the enclosed stamped 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 proposed label is enclosed for your records.

Sincerely yours,

Joanne I. Miller  
 Product Manager (23)  
 Herbicide Branch

CONCURRENCES Registration Division (7505C)

SYMBOL	ENCLOSURE						
SURNAME							
DATE							

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**

**JAN 21 1999**

**LANGE® BRAND**  
**DIMENSION® GRANULES**  
**TURF HERBICIDE**

**Dimension® is a selective herbicide that provides preemergence control of listed annual grasses, such as crabgrass, broadleaf weeds in established cool and warm season turfgrass in lawns and ornamental turf, 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 ornamental gardens or parks, or on golf courses or lawns and grounds.**

**ACTIVE INGREDIENT:**

\*Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethylester..... 0.27%

<b>INERT INGREDIENTS: .....</b>	<b>99.73%</b>
	<b>100.00%</b>

**\*This product contains 0.0675 pounds of the active ingredient, dithiopyr, per 25 pound bag.**

**\*This product contains 0.135 pounds of the active ingredient, dithiopyr, per 50 pound bag.**

**\*This product contains 5.40 pounds of the active ingredient, dithiopyr, per 2000 pound bag.**

**Product protected by U.S. Patent No. 4,692,184. Other patents pending.**

**25 pound bag treats up to 10,890 square feet for crabgrass control.**

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

**2,000 pound bag treats up to 871,200 square feet (20 acres) for crabgrass control.**

EPA REG NO. 43854-3

**EPA EST. NO. 43854-MO-1**

**REFORMULATION OR REPACKAGING IS PROHIBITED**

**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**

**See below for Precautionary Statements  
and  
Statement of Practical Treatment**

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

**CAUTION:** Causes eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**FIRST AID**

**IF IN EYES** - Immediately flush with plenty of water. Call a physician if irritation persists.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Drift and runoff may adversely affect aquatic organisms. 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 contaminate water when disposing of equipment washwater.

**STORAGE AND DISPOSAL**

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**STORAGE:** Store this product only in its original container in a dry, cool, secured storage area.

**SPILL:** In case of spill, sweep up product and apply per label instructions. If product is not usable, follow "Pesticide Disposal" directions listed below.

**PESTICIDE 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:** - Paper and Plastic (50 and 25 Pounds) 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. Bulk Containers - Woven Polyethylene (2000 Pounds) Empty thoroughly and return to specified destination for cleaning and reuse.

**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.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. ~~In the state of New York do not use in Nassau count and Suffolk County.~~ In New York State this product may only be used by professional applicators at no more than 185 pounds (0.5 pounds active ingredient) per acre per year and is prohibited from use in Nassau and Suffolk Counties.

### **GENERAL INFORMATION**

This product is a selective herbicide that provides preemergence control of crabgrass and other susceptible annual grasses and broadleaf weeds in established lawns and ornamental turf. This product will not harm nearby established ornamentals when used according to label directions.

### **PRECAUTIONS**

Use of this product on golf greens is not recommended. **DO NOT** apply this product to Colonial bentgrass. For best results, cultural practices that disturb the soil, such as core, spike, hydro-aerification, or verticutting, and topdressing should be done before application of this product. This product should not be applied until turfgrasses have recovered from stresses related to these or other mechanical operations. Irrigation or rainfall within 7 days after application will improve the performance of this product.

**Reseeding or Sprigging:** Reseeding, overseeding, or sprigging of treated areas within 4 months after application of this product may inhibit 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. This product may be used on seeded, sodded, or sprigged turfgrasses that are well-established. Allow the turf to develop a good root system and uniform stand before application.

Use of this product on turfgrasses that are not well-established, or turfgrasses that have been weakened by lack of moisture, chemical injury, insects, disease, or temperature extremes will increase the potential for injury. Allow turfgrass weakened by these stresses to recover before application of this product. ~~DO NOT apply to flowers, vegetables, shrubs or trees.~~

~~This product can be applied only once per year at a maximum use rate of 185 pounds per acre (one-half pound of active ingredient per acre). DO NOT make repeat or split applications of this product during a single growing season.~~

This product may be applied as a single application or as split applications in the spring, summer or fall.

**DO NOT** apply more than 185 pounds of this product per acre per application and no more than 555 pounds (185 pounds in New York) of this product per acre per year. Do not apply in Nassau and Suffolk Counties of New York.

DO NOT use clippings from treated turf for mulching around vegetables or fruit trees.

DO NOT allow domestic animals to feed or forage on the treated turf.

### ***TURFGRASS***

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

Berumdagrass

Buffalograss

Carpetgrass

Centipedegrass

Kikuyugrass

St. Augustinegrass

Zoysiagrass

*Paspalum notatum*

*Cynodon dactylon*

*Buchloe dactyloides*

*Axonopus affinis*

*Eremochloa ophiuroides*

*Pennisetum clandestinum*

*Stenotaphrum secundatum*

*Zoysia japonica*

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

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

\*\*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'.

### **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.

**APPLICATION DIRECTIONS**

This product provides preemergence control of listed annual grasses and broadleaf weeds when applied prior to their germination in established turfgrass.

**CONTROL OF ANNUAL GRASSES AND/OR ANNUAL BROADLEAF WEEDS**

This product should be applied prior to the germination of annual grasses and/or broadleaf weeds. Use the higher recommended use rates where weed infestations are dense and/or applications are made early and longer residual control is desirable. For preemergence control and/or suppression of annual bluegrass and listed winter annual broadleaf weeds, apply this product prior to their germination and emergence. Use the higher recommended use rates where weed infestations are dense.

Refer to the following table for recommended use rates of this product for the preemergence control of annual grasses and/or broadleaf weeds.

**WEEDS CONTROLLED AND USE RATE RECOMMENDATIONS**

<b>SUGGESTED USE RATE PER APPLICATION*</b>		
<b>WEEDS</b>	<b>Pounds/Acre</b>	<b>Pounds/1000 sq. ft.</b>
Crabgrass, Large Smooth Southern	100 to 150**	2.3 to 3.4**
Foxtail, Green Yellow		
Barnyardgrass Chickweed Clover, hop Crabgrass, tropical Crowfootgrass Dichondra, Carolina Lespedeza, common Kikuyugrass Oxalis, Buttercup Creeping Woodsorrel Yellow Woodsorrel Pineappleweed Ryegrass Annual Perennial Smutgrass Speedwell, com Spurge: Prostrate Spotted	150 to 185**	3.4 to 4.2**

Bluegrass, annual	185***	4.2***
Bittercress		
Geranium, Carolina		
Chickweed		
Goosegrass		
Henbit		
Parsley-piert		
Pineappleweed		
Purslane, common		
Shepherdspurse		

- ~~\*\*The higher use rates are recommended where weed infestations are heavy and/or dense. \*\* Use of this product at this rate will provide only partial control and /or suppression of listed weeds.~~
- \* DO NOT apply more than 185 pounds of this product per acre per application and no more than 555 pounds (185 pounds in New York) of this product per acre per year. Do not apply in Nassau and Suffolk Counties of New York.
  - \*\* Higher use rates are recommended where weed infestations are heavy and/or dense.
  - \*\*\*Use of this product at this rate will provide only partial control and/or suppression of listed weeds.

## GENERAL INFORMATION - LANDSCAPE ORNAMENTALS

**LANGE® BRAND DIMENSION® GRANULES Turf Herbicide** 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 in the spring or fall, before weed seed germination. Refer to the following table for product recommendations when treating a small area.

DO NOT apply more than 185 pounds of this product/acre per application, and no more than 555 pounds (185 pounds in New York) of this product/acre per year. Do not apply in Nassau and Suffolk Counties of New York.

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 glandulosa</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
		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 calendulaceum</i>	
Azalea, Kirishima		
Bamboo, Heavenly	<i>Nandina domestica</i>	
Barberry	<i>Berberis thunbergii</i>	Aurea
		Dwarf Pigmy
		Green
		Kobold
		Pygmy Red
		Rose Glow
Barberry, Purple	<i>Berberis vulgaris</i>	Atropurpurea
Bearberry (common)	<i>Arctostaphylos uva-ursi</i>	Massachusetts
Birch, River	<i>Betula nigra</i>	
Blueberry*	<i>Vaccinium spp.</i>	Bluecrop





Fan Palm, Mexican	<i>Washingtonia robusta</i>	Glaucia
Fescue, Sheep	<i>Festuca ovima</i>	Rainbow
Fetterbush	<i>Leucothoe fontiana</i>	Nitidia
Ficus	<i>Ficus retusa</i>	
Fir, Fraser	<i>Abies fraseri</i>	Arnold Dwarf
Forsythia	<i>Forsythia X intermedia</i>	Bronxensis Dwarf
		Lynwood Gold
		Meadowlark
	<i>Spring Glory</i>	Weeping
Gardenia	<i>Gardenia jasminoides</i>	Mystery Radicans
Geranium	<i>Pelargonium X hortorum</i>	
Gum	<i>Eucalyptus citriodora</i>	Cockspur White
Hawthorn	<i>Crataegus spp.</i>	Crimson Cloud
		Enchantress
		Jack Evans
		Washington White
Heather, Twisted	<i>Erica cinerea</i>	Mediterranean Pink
Hibiscus	<i>Hibiscus spp.</i>	Brilliant
		Hula Girl
		Blue Bird
Hemlock, Canada	<i>Tsuga canadensis</i>	Blue Boy
Holly	<i>Ilex spp.</i>	Blue Girl
		Burfodii
	<i>Ilex X meserveae</i>	China Girl
		Compacta
		Forsteri
		Hellerie
		Japanese Northern
		Beauty
		Needlepoint
		Nellie R. Stevens
		Savanah
Holly, Chinese	<i>Ilex X attenuata</i>	Clavey's Dwarf
Holly, Japanese	<i>Ilex cornuta</i>	Halliana
Holly, Yaupon	<i>Ilex crenata</i>	Tatarian Canadian
Honeysuckle	<i>Ilex vomitoria</i>	White
	<i>Lonicera japonica</i>	Zebelli Red Hosta
		Albo Marginata
Hosta	<i>Hosta spp.</i>	
	<i>Hosta lancifolia</i>	
Ice Plant	<i>Carpobrotus edulis</i>	
Impatiens	<i>Impatiens wallerana</i>	

<b>Iris</b>	<i>Iris spp.</i>	<b>Wedgewood</b>
<b>Ivy, English</b>	<i>Hedera helix</i>	<b>Dwarf Blue</b>
<b>Jasmine, Asian</b>	<i>Trachelopermum asiaticum</i>	<b>Bulgaria</b>
<b>Juniper</b>	<i>Juniperus spp.</i>	<b>Thorndale</b>
	<i>Juniperus horizontalis</i>	<b>Arcadia</b>
		<b>Armstrong</b>
		<b>Bar Harbor</b>
		<b>Blue Chip</b>
		<b>Blue Pacific</b>
		<b>Blue Rug</b>
		<b>Blue Star</b>
		<b>Broadmoor</b>
		<b>Buffalo</b>
		<b>Calgary Carpet</b>
		<b>Emerald Sea</b>
		<b>Emerald Spreader</b>
		<b>Endora Compacta</b>
		<b>Fruitlandi</b>
		<b>Green</b>
		<b>Gold Tip</b>
		<b>Hetzi</b>
		<b>Hughes</b>
		<b>Manhattan Blue</b>
		<b>Parsoni</b>
		<b>Pfitzeriana</b>
		<b>Plumosa</b>
		<b>Prince of Wales</b>
		<b>Procumbens Dwarf</b>
		<b>San Jose</b>
		<b>Sargent Blue</b>
		<b>Sargent Green</b>
		<b>Scandia</b>
		<b>Scopulorum Moonglow</b>
		<b>Scopulorum Skyrocket</b>
		<b>Spartan</b>
	<i>Juniperus chinensis</i>	<b>Tamariscifolia</b>
	<i>Juniperus sabina</i>	<b>Weberi</b>
		<b>Youngstown</b>
		<b>Yukon Belle</b>
<b>King Palm</b>	<i>Archontophoenix</i>	
	<i>cunninghamiana</i>	
<b>Laurel, Australian</b>	<i>Pittosporum tobira</i>	
<b>Laurel, Mountain</b>	<i>Kalmia latifolia</i>	
<b>Leucothoe</b>	<i>Leucothoe fontanesiana</i>	
<b>Ligustrum, Japanese</b>	<i>Ligustrum japonicum</i>	
<b>Lily, Africian</b>	<i>Agapanthus africanus</i>	<b>Albus</b>
<b>Lily, Africian Blue</b>		<b>Peter Pan</b>

Lily of the Valley Lilyturf	<i>Pieris japonica</i> <i>Liriope muscari</i>	Mt. Fire Evergreen Giant Lilac Beauty Majestic Monroe White Variegata
Liriope, Green Maple, Japanese Maple, Norway Maple, Red Maple, Silver Maple, Sugar Marigold	<i>Liriope spicata</i> <i>Acer japonicum</i> <i>Acer platanoides</i> <i>Acer rubrum</i> <i>Acer saccharinum</i> <i>Acer saccharum</i> <i>Tagetes patula</i>	Honeycomb Wheeler's Dwarf Variegata Golden Snowflake Double White
Mock Orange*	<i>Philadelphus spp.</i>	Sunnyside Faurei Langer Muskogee Standard Pink
Mondo Grass Moss Rose Myrtle, Crape	<i>Ophiopogon japonicus</i> <i>Portulaca grandiflora</i> <i>Lagerstoemia indica</i>	Compacta Nana Hardy Red Petite Pink Sister Agnes
Myrtle, Wax Nadina	<i>Myrica cerifer</i> <i>Nadina domestica</i>	
Oleander	<i>Nerium oleander</i>	
Oak, Laurel Oak, Pin Oak, Red Oak, Southern L Oak, Willow Osteospermum Palm, Bangalow Pampas Grass Paper Flower Pachysandra Peach* Periwinkle, Dwarf Petunia Photinia, Red Tip Pieris Pine, Australian Pine, Japanese Black Pine, Loblolly Pine, Longleaf	<i>Quercus laurifolia</i> <i>Quercus palustris</i> <i>Quercus rubra</i> <i>Quercus virginiana</i> <i>Quercus phellos</i> <i>Osteospermum fruticosum</i>  <i>Cortadaria selloana</i> <i>Bougainvillea glabra</i> <i>Pachysandra terminalis</i> <i>Prunus persica</i> <i>Vinca minor</i> <i>Petunia X hybrida</i> <i>Photinia X fraseri</i> <i>Pieris japonica</i> <i>Pinus nigra</i> <i>Pinus thunbergiana</i> <i>Pinus teada</i> <i>Pinus palustris</i>	Wiriligig  Barbara Karst  Picoti

Pine, Mugho	<i>Pinus mugho</i>	
Pine, Scotch	<i>Pinus sylvestris</i>	
Pine, Slash	<i>Pinus elliotii</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>	Abbotswood
Privet	<i>Ligustrum japonicum</i>	Golden Vicary
		Regal
		Texanum
		Yellow Tipped
		Wax
Privet, Glossy	<i>Ligustrum lucidum</i>	
Pyracantha	<i>Pyracantha koidzumii</i>	Gnome
		Lalandei
		Victory
Queen Palm	<i>Arecastrum</i>	
	<i>rammanzoffianum</i>	
Quince, Japanese*		
Rhododendron	<i>Rhododendron spp.</i>	Album
		Cunningham White
		Fashion
		Hardy
		PJM
		Purple Gem
		Silvery Pink
Rhododendron, Carolina	<i>Rhododendron</i>	
	<i>carolinianum</i>	
Rhododendron, Catawba	<i>Rhododendron catawbiense</i>	
Rodie Max (Rosebay)	<i>Rhododendron maximum</i>	
Rose	<i>Rosa banksiae</i>	Luta
Rosemary*	<i>Rosmarinus officinalis</i>	
Rosemary, Bog	<i>Andromeda polifolia</i>	Nana
Salvia	<i>Salvia farinacea</i>	Rhea
Sedum	<i>Sedum spurium</i>	Dragon Blood Red
		Red Carpet
		Yellow
Spiraea, Perennial	<i>Astilbe X arendsii</i>	Fanall
Spiraea	<i>Spiraea spp.</i>	Anthony Waterer Red
		Dolchica
		Froebeli Pink
		Goldenflame Red
		Snowmound White
		Van Houtte White
Spiraea, Garland	<i>Spiraea spp.</i>	
Spruce, Black Hills	<i>Picea glauca</i>	
Spruce, Colorado Blue	<i>Picea pungens</i>	

Spruce, Norway	<i>Picea abies</i>	Conica
Spruce, White	<i>Picea glauca</i>	
Sourwood	<i>Oxydendrum arboreum</i>	
Sweetflag, Grassyy-Le		
Sweetgum	<i>Liquidambar styraciflua</i>	
Sycamore	<i>Platanus occidentalis</i>	Apeldoorn
Tree Fern (Tiki Fern)	<i>Asparagus virgatus</i>	
Trumpet Flower, Evening	<i>Gelsemium sempervirens</i>	
Tulip	<i>Tulipa, spp.</i>	
Verbena, Shrub	<i>Lantana sellowiana</i>	
Vervain	<i>Verbena spp.</i>	St. Paul
Viburnum	<i>Viburnum spp.</i>	American Cranberry Bush
		Arrouuod
		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

#### **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*  
 dallisgrass (seedling)  
*Paspalum dilatatum*  
 goosegrass  
*Eleusine indica*  
 foxtail, green  
*Setaria verdi*  
 foxtail, yellow  
*Setaria faberi*  
 kikuyugrass  
*Pennisetum clandestinum*  
 oats, wild  
*Avena sativa*  
 ryegrass (annual & perennial)  
*Lolium* spp.  
 smutgrass  
*Sporobolus poireti*

marestail  
*Hippuris vulgaris*  
 medic, black  
*Medicago lupulina*  
 mustard  
*Brassica* spp.  
 oxalis, buttercup  
*Oxalis pes-caprae*  
 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. A more uniform application can be made by spreading half of the required amount over the area and then applying the remaining half at a right angle to the previous direction. 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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