	3854-7	0.3/3	1/2000	>
US ENVIRONMENTAL PROTECTION AGEN OFFICE OF PESTICIDES PROGRAMS	CY	43854-7	o/	MAR 3 1 2000
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460		Conditional		
	RATION	NAME OF PESTICIDE P	RODUCT	
(Under the Federal Insecticide, Fung and Rodenticide Act, as amended	icide,	Lange Turf For Preemergence		mension <sup>®</sup> 143 ntrol with Plant Food
AME AND ADDRESS OF REGISTRANT (Include 2	IP code)			
F		т-		
Lange-Stegmann Comp One Angelica Street St. Louis, Missouri				
L		L		
NOTE: Changes in labeling formula differing submitted to and accepted by the Registration product always refer to the above U.S. EPA re	Division prior	to use of the label in c		
On the basis of information furnished by the r the Federal Insecticide, Fungicide, and Rode		bove named pesticide is	s hereby R	egistered/Reregistered under
A copy of the labeling accepted in connectio	n with this Reg	istration/Reregistration	is returne	d herewith.
Registration is in no way to be construed as health and the environment, the Administrator icide in accordance with the Act. The accept Act is not to be construed as giving the regis by others.	, on his motior ance of any na	n, may at any time suspe me in connection with th	nd or canc e registrat	el the registration of a pest- tion of a product under this
This product is regis 3(c)(5), provided that you		ccordance with FI	FRA sect	tion
<ol> <li>Add the phrase "EF before you release</li> <li>Submit one (1) cop the product for sh</li> </ol>	e the produce of the f	ct for shipment. inal printed labe	l, befoi	re you release
If these conditions are subject to cancellation in a for shipment of the product A stamped copy of the label	constitute	with FIFRA sections acceptance of t	n 6(e). hese co	Your release
Enclosure	Pro Her	nne I. Miller duct Manager (23) bicide Branch istration Divisic	n (7505	C)
ATTACHMENT IS APPLICABLE			•	
SIGNATURE OF APPROVING OFFICIALA				
				DATE

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<sup>15</sup> EXHAUSTED. -U.S. GPO 1992-312-018/60303 Ε L

# LANGE® Turf Formula DIMENSION®143 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 plantscapes, 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 349 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	0.143%
INERT INGREDIENTS:	<u>99.857%</u>
	100.000%

\*This product contains 0.0715 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 24939 square feet for crabgrass control.

<b>EPA</b>	REC	G NC	). 43	854
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EPA EST. NO. 43854-MO-1

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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 algention 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 UF THIS PRODUCT.

3/16

## **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**

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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:

- <u>Cool-Season Grasses</u> bentgrass, creeping\* bluegrass, Kentucky fescue, fine\*\* fescue, tall ryegrass, perennial
- Warm-Season Grasses
- bahiagrass berumdagrass buffalograss\*\*\* carpetgrass centipedegrass kikuyugrass St. Augustinegrass zoysiagrass

Agrostis stolonifera Poa pratensis Festuca rubra Festuca arundinacea Lolium perenne

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

establishment until the turfgrass is fully green and has established new roots.

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### **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 hydroaerification 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 8 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 moving 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

4

crabgrass control. This program may also be used for early postemergence control of crabgrass.

• Where split fertilizer applications are recommended, a rate in Table1 may be applied in two applications made 6-10 weeks apart and prior to crabgrass emergence.

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

Program	1	2
Use (turfgrass cut)	Preemergence (high)	Preemergence (low) Postemergence
Region		
North	2.0	4.0
Transition	2.91	5.83
South	4.0	8.0
Coastal South	5.83	8.0**

\*DO NOT apply more than 8.0 lb of this product/1000sq.ft. per application, and no more than 24 lb. (8.0 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.

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\*\*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 mawing, again for a few days after the application.
- When treated lawn or ornamental turf areas are watered or receive significant rainfallwithin 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 provid improved week 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

Lespedeza (common)

bluegrass (annual, roughstalk) crowfootgrass foxtail (green & yellow)\* put goosegrass spe kikuyugrass spe ryegrass (annual & perennial) smutgrass \*Also controlled at the Program 2 rates.

oxalis (buttercup, creeping & yellow woodsorrel) purslane (common) speedwell (corn) spurge (prostrate & spotted) ass

<u>Fall Applications</u> 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 treasing a small area.

DO NOT apply more than 8 lb. of this product/1000 sq.ft. per application, and no more than 24 lb. (8.0 lbz. in New York) of this product/1000 sq.ft. per year. Do not apply in Nassau and Suffolk counties of New York.

Pounds	pounds	pounds
Product/Acre	Product/1000 Square Feet	Product/100 Square Fect
349	8.0	0.8

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# 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	Abelia X grandiflora	Nana	
Ajuga	Ajuga reptans	Bronze	
• 0	Ajuga genevensis	Bronze Beauty	
Almond, Flowering	Prunus gladulosa		
Apple*	Malus pumila		
Arborvitae	Thuja occidentalis	Nigra	1 1 1 1 2 4 5 1
	•	Pyramidalis	, ,
		Smaragh	י <b>ו</b> : י ו
		Techny	, ,,,
		Woodwardii	
Arborvitae, Golden	Thuja orientalis	د د د ر	, , , ,
Aster, Chinese	Callistephus chinensis	Dwarf Queen	i i i
Ash, Green	Fraxinus pennsylvanica	- 1)))))	ر ز
Ash, Mountain	Sorbus aucuparia		د ند ز د د ز
Ash, Purple	Fraxinus americana		۰ د ۱۰۰۰
Azalea	Rhododendron spp.	Brilliant	,,,
		Buccaneer	

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# Azalea, Flame

Azalea, Kirishima Bamboo, Heavenly Barberry

Barberry, Purple Bearberry (common) Birch, River Blueberry\*

Bottlebrush Boxwood, Japanese Boxwood, Weller Broom Broom Bugleweed Carpet Carex, Variegated Camellia

Cedar, Red Cockscomb, Plumosa Coleus Rhododendron calendulaceum

Nandina domestica Berberis thunbergii

Berberisvulgaris Arctostaphylos uva-ursti Betula nigra Vaccinium spp.

Callistemon citrinus Buxus microphylla Buxus sempervirens Cytisus spp. Genista pilosa Ajuga reptans Carex Camellia japonica

Camellia sasangua Juniperus virginiana Celosia cristata Coleus blumei Carror Chimes (Belgian) Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hinocrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm

Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow Atropurpurea Massachusetts

Bluecrop Blue Jay Jersey North Blue Northland

Japonica

Moonlight Vancouver Gold

Debutante Mathotiana Supremo Chansonette;

**Red Kewpie** 

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

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

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

Gardenia Geranium Gum Hawthorn 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.

## Glauca

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 <sup>3</sup> Nitidia

Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlårk Weeping

Cockspur White Crimson Cloud Enchantress 10/16

		Jack Evans
		Washington White
Heather, Twisted	Erica cinerea	Mediterranean Pink
Hibiscus	Hibiscus spp.	Brilliant
		Hula Girl
		Blue Bird
Hemlock, Canada	Tsuga canadensis	
Holly	Ilex spp.	Blue Boy
<b>-</b>		Blue Girl
	Ilex X meserveae	Burfodii
		China Girl
		Compacta
		Forsteri
		Hellerie
		Japanese Northern
		Beauty
		Needlepoint
		Nellie R. Stevens
		Savanah
	Ilex X attenuata	A FOR Y BEARCEAN
Holly, Chinese	Ilex cornuta	
Holly, Japanese	Ilex crenata	1
Holly, Yaupon	Ilex vomitoria	
Honeysuckle	Lonicera japonica	Clavey's Dwarf
<b>v</b>	<b>3 A</b>	Halliana
		Tatarian Canadian
		White
		Zebelli Red Hosta
Hosta	Hosta spp.	Albo Marginata
	Hosta lancifolia	
Ice Plant	Carpobrotus edulis	
Impatiens	Impatiens wallerana	
Iris	Iris spp.	Wedgewood
		Dwarf Blue
Ivy, English	Hedera helix	Bulgaria
		Thorndale , ,
Jasmine, Asian	Trachelopermum asiaticum	
Juniper	Juniperus spp.	Arcadia
		Armstrong
		Bar Harbor
	Juniperus horizontalis	Blue Chip '; '';
		Blue Pacific
		Blue Rug
	Juniperus horizontalis	Blue Star
		l Hroodimoor
		Buffalo
		Calgary Carpet
		Emerald Sea

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Juniperus chinensis Juniperus sabina

King Palm

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Laurel, Australian Laurel, Mountain Leucothoe Ligustrum, Japanese Lily, Africian

Lily, Africian Blue Lily of the Valley Lilyturf

Liriope, Green Maple, Japanese Maple, Norway Maple, Red Maple, Silver Maple, Sugar Marigold Archontophoenix cunninghamiana Pittosporum tobira Kalmia latifolia Leucothoe fontanesiana Ligustrum japonicum Agapanthus africanus

Pieris japonica Liriope muscari

Lirope spicata Acer japonicum Acer platanoides Acer rubrum Acer saccharinum Acer saccharum Tagetes patula

**Emerald Spreader** Endora Compacta Fruitlandi Green Gold Tip Hetzi Hughes **Manhatten 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

Albus Peter Pan

Mt. Fire Evergreen Giant Lilac Beauty Majestic Monroe White Variegata 11

# Mock Orange\*

Mondo Grass Moss Rose Myrtle, Crape

Myrtle, Wax Nadina

Oleander

**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 Pine, Mugho Pine, Scotch Pine, Slash Pine, Swiss Mt. Pine, Virginia Pine, White **Pineapple**, Guava Pittosporum, Japan Potentilla Privet

Philadelphus spp.

Ophiopogon japonicus Portulaca grandiflora Lagerstoemia indica

Myrica cerifer Nadina domestica

Nerium oleander

Quercus laurifolia Quercus palustris Quercus rubra Quercus virginiana Quercus phellos Osteospermum fruticosum

Cortadaria selloana Bougainvillea glabra Pachysandra terminalis **Prunus** persica Vinca minor Petunia X hybrida Photinia X fraseri Pieris japonica Pinus nigra Pinus thunbergiana Pinus teada **Pinus** palustris **Pinus** mugho Pinus sylvestris Pinus elliottii Pinus mugo Pinus virginiana Pinus strobus Feijoa fellowaiana

Potentilla fruticosa Ligustrum japonicum Variegata Golden Snowflake Double White

Sunnyside Faurei Langer Muskogee Standard Pink

Compacta Nana Hardy Red Petite Pink Sister Agnes

Wirligig

Barbara Karst

Abbotswood 🚈

**Golden Vicary** 

Regal Texanum Yellow Tipped

Picoti

		Wax	
Privet, Glossy	Ligustrum lucidum		
Pyracantha	Pyracantha koidzumii	Gnome	
		Lalandei	
~ <b>D</b>		Victory	
Queen Palm	Arecastrum		ļ
	rammanzoffianum		
Quince, Japanese*		}	
Rhododendron	Rhododendron spp.	Album	
		Cunningham White	e
		Fashion	
		Hardy PJM	
	1		
		Purple Gem	
Dhadadanduan Can-K	Rhododendron	Silvery Pink	
Rhododendron, Carolina	carolinianum		
Dhadadandana Catanih	Rhododendron catawbiense		1
Rhododendron, Catawba Rodia Max (Pasebay)	Rhododendron maximum		
Rodie Max (Rosebay) Rose	Rosa banksiaae	Luta	
Rosemary*	Rosmarinus officinalis	Lula	
Rosemary, Bog	Andromeda polifolia	Nana	
Salvia	Salvia farinacea	Rhea	
Sedum	Sedumm spurium	Dragon Blood Red	-
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Red Carpet	
		Yellow	
Spiraea, Perennial	Astilbe X arendsii	Fanall	
Spiraea	Spiraea spp.	Anthony Waterer F	Red
· • • · · · · · · · · · · · · · · · · ·		Dolchica	~~~~
		Froebeli Pink	
		Goldenflame Red	
		Snowmound White	
		Van Houtte White	
Spiraea, Garland	Spiraea spp.	<b>N</b>	
Spruce, Black Hills	Picea glauca	}	
Spruce, Colorado Blue	I wea guanca		
<b>•</b> •	Picea pungens		, 、
<b>•</b> •	•		נ גייי גיייי ג
Spruce, Norway Spruce, White	Picea pungens Picea abies Picea glauca	Conica	د د د د د د د د د د د د
Spruce, Norway Spruce, White	Picea pungens Picea abies		י י י י
Spruce, Norway Spruce, White Sourwood	Picea pungens Picea abies Picea glauca	Conica	, , , , , , , , , , , , , , , , , , ,
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le	Picea pungens Picea abies Picea glauca		י ניני ניני ניני
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le Sweetgum	Picea pungens Picea abies Picea glauca Oxydendrum arboreum	3 i i 3 i j 3 2 i 3 3 i 3 3 i 3 3	د در د د د د د د
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le Sweetgum Sycamore	Picea pungens Picea abies Picea glauca Oxydendrum arboreum Liquidambar styraciflua	3 i i 3 i j 3 2 i 3 3 i 3 3 i 3 3	د در د د د د د د
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le Sweetgum Sycamore Tree Fern (Tiki Fern)	Picea pungens Picea abies Picea glauca Oxydendrum arboreum Liquidambar styraciflua Platanus occidentalis	ی د د د د د ۲ - ۲ - ۲ - ۲ ۲ - ۲ - ۲ ۲ - ۲ - ۲ ۲ - ۲ -	د در د د د د د د
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le Sweetgum Sycamore Tree Fern (Tiki Fern) Trumpet Flower, Evening	Picea pungens Picea abies Picea glauca Oxydendrum arboreum Liquidambar styraciflua Platanus occidentalis Asparagus virgatus	2 4 5 4 8 2 3 8 3 3 3 3 3 3 4 5 3 3 5 4 3 5 4 3 5 5 3 5 3 5 3 5 3 5 3 5 3 5 3	د در د د د د د د
Spruce, Norway Spruce, White Sourwood Sweetflag, Grassyy-Le Sweetgum Sycamore Tree Fern (Tiki Fern) Trumpet Flower, Evening Tulip Verbana, Shrub	Picea pungens Picea abies Picea glauca Oxydendrum arboreum Liquidambar styraciflua Platanus occidentalis Asparagus virgatus Gelsemium sempervirens	ی د د د د د ۲ - ۲ - ۲ - ۲ ۲ - ۲ - ۲ ۲ - ۲ - ۲ ۲ - ۲ -	

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14/14

Viburnum	Viburnum spp.	American Cranberry
		Bush
		Arrowood
		Common Snowball
		European Cranberry
		Bush
		Linden
		Mohican
		Wright
Windmill Palm	Trachycarpus fortunei	_
Xylosma	Xylosma congestum	
Yaupon	Ilex vomitoria	Dwarf
Yew	Taxus cuspidatra	Denisiformis
	Taxus X media	

Ornamental species only:

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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	Polygonum saviculare	
barley	lespedeza, common	
Hordeum spp.	Lespedeza striata	
barnyardgrass	Dactyloctenium aegyptium	
Enchinochloa crus-galli	marestail	
bluegrass, annuai	Hippuris vulgaris	
Poa annua	medic, black	
brome	Medicago lupulina	
Bromus spp.	mustard	
crabgrass, large	Brassica spp.	
Digitaria sanguinalis	oxalis, buttercup	
crabgrass, smooth	Oxalis pes-caprae	
Digitaria ischaemum		
crabgrass, Southern	· · · · · · · · · · · · · · · · · · ·	
Digitaria ciliaris	dallisgrass (seedling)	
crowfootgrass	Paspalum dilatatum	
Dactyloctenium aegyptium	goosegrass	( ) 1 - 2 - 1 - 1
	Eleusine indica	1
BROAD LEAF WEEDS	foxtail, green	د و د ج د و
bittercress	Setaria verdi	ه ر و
Cardamine spp.	foxtail, yellow	,
carpetweed	Seiuriu juveri	۲۳۲۲ ۱ ۱
Mollugo verticillata	kikuyugrass	
chickweed	Pennisetum clandestinum	
Stellaria spp.	oats, wild	,
geranium, Carolina	Avena fatua	
Geranium carolinianum	ryegrass (annual & perennial)	۰ ز د د د ب
henbit	Lolium spp.	
Lamium spp.	smutgrass	
knotweed, prostrate	Sporobolus poireti	
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15/16

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.

DIMENSION® IS A REGISTERED TRADEMARK OF Rohm and Haas Company. LANGE® IS A REGISTERED TRADEMARK OF LANGE-STEGMANN COMPANY.

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Lange-Stegmann Company One Angelica Street St. Louis, Missouri 63147 (314) 241-9531

#### ACCEPTED with COMMENTS In EPA Letter Dated

MAR 3 | 2000 Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 43854-7