

Ms. Dawn L. Walters
Lawn Fertilizer Division
The Andersons, Inc.
P.O. Box 119
Maumee, Ohio 43537

MAY 26 1998

Dear Ms. Walters:

Subject: The Andersons Dimension Herbicide IV
EPA Registration No. 9198-117
The Andersons Dimension Herbicide I
EPA Registration No. 9198-118
The Andersons Dimension Herbicide II
EPA Registration No. 9198-120
The Andersons Dimension Herbicide III
EPA Registration No. 9198-121

Application and Letter Dated May 7, 1998, Request To Add
Landscape Ornamental Use Directions To Both Commercial
and Homeowner Labels Based Authorization for Use of Dithiopyr
Data Owned by Rohm and Haas Company

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

o Submit one (1) copy of the final printed labeling reflecting
the amendments prior to your shipment of the pesticide product
under the respective proposed amended label.

If this condition is not complied with, the registration
will be subject to cancellation in accordance with FIFRA, section
o(e). Your release for shipment of any of these products under its
respective subject labeling constitutes acceptance of this condition.

Sincerely yours,

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

Enclosures (8 Stamped Labels)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

26f35

(FRONT PANEL)

HOMEOWNER USE ONLY

(The above is for internal use only and will not appear on the final label copy)

The Andersons Dimension® Herbicide IV

- A Selective Herbicide Plus Fertilizer Combination Product that Provides Control of Crabgrass and Other Weeds in Established Lawns and Ornamental Turfgrasses.
- Premium Granular Fertilizer that Feeds Your Lawn - Providing The Nutrients Needed for A Beautiful, Green and Vigorous Lawn.
- Contains Dimension Herbicide - A Herbicide for Crabgrass Control! Non-Staining!
- Can Be Applied Up to 4 Weeks Later Than Other Crabgrass Preventers and Controls Crabgrass All Season Long.

ACTIVE INGREDIENTS:

Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S- dimethyl ester..... 0.25%

INERT INGREDIENTS..... 99.75%

TOTAL.....100.00%

® Dimension is a registered trademark of Rohm and Haas Company.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT ____ LBS.

EPA Reg. No. 9198-117

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 26 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
9198-117

EPA Est. No. 9198-OH-1

(BACK PANEL)

HOMEOWNER USE ONLY

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NET WEIGHT _____ LBS.

The Andersons Dimension[®] Herbicide IV**GUARANTEED ANALYSIS**

Total Nitrogen (N).....	16%
Available Phosphate (P ₂ O ₅).....	4%
Soluble Potash (K ₂ O).....	4%

Primary Plant Food derived from: Urea, Muriate of Potash, Ammoniated Phosphates.

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS****KEEP OUT OF REACH OF CHILDREN****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.

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.

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. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

(BACK PANEL)

HOMEOWNER USE ONLY

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DIRECTIONS FOR USE

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

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

New York Use Restrictions: In New York State this product may only be used by professional applicators and at no more than 4.6 pounds per 1000 square feet (equal to 0.5 pound active ingredient per acre); and is prohibited from use in Nassau and Suffolk Counties.

Use only according to label instructions.

GENERAL INFORMATION

This product is a combination product that provides both crabgrass control and the required nutrients for optimum turfgrass growth all in a single product.

This product contains Dimension, a crabgrass preventer that can be applied up to 4 weeks later than other crabgrass preventers and provide up to 4 months control of crabgrass and other grass and broadleaf weeds prior to their establishment in lawns and ornamental turfgrasses. This product should be applied to lawns and ornamental turfgrasses that are well established (See "Use Precautions" section below for a list of the tolerant turfgrasses). This product will not harm nearby established ornamentals when used according to label directions.

USE PRECAUTIONS

This product should only be applied to lawns and ornamental turfgrasses that are well established. Use of this product on lawns and ornamental turfgrasses that are not well established, or have been weakened by stress due to mechanical operations, pests, excessive temperatures, or lack of moisture may increase the chances for turfgrass injury.

The Andersons Dimension® Herbicide

can be applied to the following turfgrasses when applied as directed:

Cool-Season Turfgrasses

- Creeping Bentgrass
- Fine Fescues
- Kentucky Bluegrass
- Perennial Ryegrass
- Tall Fescues

Warm-Season Turfgrasses

- Bahiagrass
- Bermudagrass
- Buffalograss
- Carpetgrass
- Centipedegrass
- St. Augustinegrass
- Zoysiagrass

This product should be applied in the spring or fall prior to the weed seed germination in established lawns and ornamental turfgrasses.

This product can be applied up to 4 weeks later than other crabgrass preventers and still provide season-long weed control of crabgrass. Dimension herbicide provides preemergence control of crabgrass and other weeds when applied prior to their germination, and it also provides postemergence control of crabgrass. The postemergence control provided by this product is limited to crabgrass only and will provide control of crabgrass when applied up to 4 weeks after crabgrass germination. Application of this product later than 4 weeks after crabgrass germination will result in reduced control of crabgrass.

(BACK PANEL)

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For control of other grass and broadleaf weeds, this product must be applied as a preemergent treatment. Only crabgrass can be controlled with delayed applications after germination.

Tips for Improved Weed Control: For best results, apply this product within a few days after mowing and delay further mowings after the application of this product until the lawn or ornamental turfgrass has been watered or received significant rainfall to dissolve the fertilizer granules. Improved weed control may be observed when treated lawn or ornamental turfgrass is watered or receives rainfall within a few days after application of this product.

Reseeding, Overseeding, or Sprigging of turfgrasses into areas that have been previously treated with this product should be delayed until 16 weeks after application. Reseeding, overseeding, or sprigging upto 16 weeks after application may prevent the establishment of the newly reseeded, overseeded or sprigged turfgrasses.

•DO NOT apply more than 4.6 pounds of this product per 1,000 square feet of turfgrass area during the year (1,000 square feet area = 100 feet x 10 feet).

•DO NOT apply to flowers, vegetables, or fruit trees.

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

•Keep people and pets off treated areas until dust has settled.

APPLICATION DIRECTIONS

The Andersons Dimension® Herbicide IV will provide control of crabgrass and other grasses and broadleaf weeds listed below when applied prior to weed seed germination in established lawns and ornamental turfgrasses.

Weeds Controlled and/or Suppressed by
The Andersons Dimension® Herbicide

Grass Weeds:	Broadleaf Weeds:
Annual Bluegrass	Bittercress
Annual Ryegrass	Buttercup Oxalis
Barnyardgrass	Carolina Geranium
Crabgrass	Chickweed
Crowfootgrass	Common Lespedeza
Goosegrass	Common Purslane
Green Foxtail	Corn Speedwell
Kikuyugrass (seedling)	Creeping Oxalis
Perennial Ryegrass	Henbit
Smutgrass (seedling)	Parsley-piert
Yellow Foxtail	Pineappleweed
	Spotted Spurge
	Yellow Woodsorrel

(BACK PANEL)

HOMEOWNER USE ONLY

*(The above is for internal use only and will not appear on the final label copy)***Application Timings:**

This product may be applied either in the spring or in the fall for the control of weeds.

When this product is applied in the fall, a sequential or second application should be made the following spring to provide season-long control of weeds.

Length of Control:

This product will provide up to 4 months of weed control if applied according to label directions.

The actual length of control will vary depending on use rate, weather conditions, condition of the turfgrass, intensity of weed pressure, and the location or "Region" within the United States that this product is being applied.

Please check the map below to determine which "Region" of the U.S. that applies to your particular use area.

Use "Regions" within the United States:

(BACK PANEL)

HOMEOWNER USE ONLY

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Recommended Use Rates:

Recommended Use Rates
for The Andersons Dimension® Herbicide

(Pounds of this product to apply per 1,000 square feet of turfgrass)

<u>Region of U.S.</u>	<u>Length of Weed Control</u>	
	<u>2-3 Months Control</u>	<u>3-4 Months Control</u>
North	1.15	1.6
South	1.8	2.3

SUGGESTED SPREADER SETTINGS

(Available at Final Printing)

Broadcast Spreaders: For best results, apply in a circular path starting on the outside and working toward the center. A little overlap of product will ensure complete coverage.

Drop Spreaders: First, apply 2 border strips along the edge of each end of the lawn. Then apply product along the length of the lawn, overlapping slightly and shutting off the spreader before turning as you reach the edge of the border strips.

Important: It is important to follow the directions as indicated on this quality lawn care product as over-application may cause injury to the lawn. Measure the size of the area to be treated and do not over or under apply. Spreader settings are approximate. Differences may occur due to condition of spreader, speed at which applied, and roughness of area treated. Calibrate spreader prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing uniformly. Close spreader when filling, stopping or turning. Do not hand spread.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Keep container closed and away from food, feedstuffs and domestic water supplies. PESTICIDE DISPOSAL: Securely wrap original container in several layers of newspaper and discard in trash. CONTAINER DISPOSAL: Do not reuse container. Discard container in trash.

(BACK PANEL)

HOMEOWNER USE ONLY

*(The above is for internal use only and will not appear on the final label copy)***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, 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 which 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 4.6 pounds per 1,000 square feet per year. Do not apply in Nassau and Suffolk Counties of New York.

**Pounds of Product
per 1,000 square feet**
4.6

**Ounces of Product
per 100 Square Feet**
7.36

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.

(BACK PANEL)

HOMEOWNER USE ONLY

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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 condition. 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> <i>Ajuga genevensis</i>	Bronze Bronze Beauty
Almond, Flowering	<i>Prunus glandulosa</i>	
Apple*	<i>Malus pumila</i>	
Arbovitae	<i>Thuja occidentalis</i>	Nigra Pyramidalis Smaragh Techny Woodwardii
Arbovitae, 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 Hinodecriston Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm
Azalea, Flame	<i>Rhododendron calendulaceum</i>	
Azalea, Kurishima		
Bamboo, Heavenly		

(BACK PANEL)

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Barberry	<i>Berberis thunbergii</i>	Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Bearberry (common)	<i>Arctostaphylos uva-ursi</i>	Massachusetts
Birch, River	<i>Betula nigra</i>	
Blueberry*	<i>Vaccinium</i> spp.	Bluecrop Blue Jay Jersey North Blue Northland
Bottlebrush	<i>Callistemon citrinum</i>	
Boxwood, Japanese		Japanica
Boxwood, Weller	<i>Buxus sempervirens</i>	
Broom	<i>Cytisus</i> spp.	Moonlight
Broom	<i>Genista pilosa</i>	Vancouver Gold
Bugle Carpet		
Carex, Variegated	<i>Carex</i>	
Camellia	<i>Camellia japonica</i> <i>Camellia sasangua</i>	Debutante Mathotiana Supreme Chansonette
Cedar, Red	<i>Juniperus virginiana</i>	
Cockscomb, Plumosa	<i>Celosia cristata</i>	Red Kewpie
Coleus	<i>Coleus blumei</i>	
Copper leaf	<i>Acalypha wilkesiana</i>	
Cotoneaster	<i>Cotoneaster apiculatus</i>	
Cycads	<i>Cycads revoluta</i>	
Coyotebrush	<i>Baccharis pelularis</i>	
Cypress, Bald	<i>Taxodium distichum</i>	
Cypress, Italian	<i>Cupressus sempervirens</i>	Glauca
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	
Cypress, Japanese False	<i>Chamaecyparis obtusa</i>	Gracilis
Daffodil	<i>Narcissus</i> spp.	King Alfred
Daylily	<i>Hemerocallis</i> spp.	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow
Dogwood	<i>Cornus florida</i>	
Dogwood, American	<i>Cornus sericea</i>	
Douglas Fir	<i>Pseudotsuga menziesii</i>	
Dusty Miller	<i>Senecio cineraria</i>	
Elm, Drake	<i>Ulmus parvifolia</i>	

(BACK PANEL)

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Euonymus		<i>Euonymus fortunei</i>	Argenteo-variegata Aureo-marginata Colorata Emerald Gaiety Emerald 'N Gold Gold Edge Gold Princess Silver King Tricolor Vegetus
Fan Palm, European		<i>Chamaerops humilis</i>	
Fan Palm, Mexican		<i>Washingtonia robusta</i>	
Fescue		<i>Festuca glauca</i>	
Fetterbush		<i>Leucothoe fontana</i>	Rainbox
Ficus		<i>Ficus retusa</i>	Nitidia
Forsythia		<i>Forsythia X intermedia</i>	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
Fir Fraser		<i>Abies fraseri</i>	
Gardenia		<i>Gardenia jasminoides</i>	Mystery Radicans
Geranium		<i>Pelargonium X hortorum</i>	
Gum		<i>Eucalyptus citriodora</i>	
Hawthorn		<i>Crataegus spp.</i>	Cockspur White 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>	
Holly		<i>Ilex spp.</i> <i>Ilex X meserveae</i>	Blue Boy Blue Girl Burfordii China Girl Compacta Forsteri Helleri Japanese Northern Beauty Needlepoint Nellie R. Stevens Savannah
Holly, Chinese		<i>Ilex X attenuata</i> <i>Ilex cornuta</i>	

(BACK PANEL)

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Holly, Japanese		<i>Ilex crenata</i>	
Holly, Yaupon		<i>Ilex vomitoria</i>	
Honeysuckle		<i>Lonicera japonica</i>	Clavey's Dwarf Halliana Tatarian Canadian White Zebelli Red Hosta
Hosta		<i>Hosta spp.</i> <i>Hosta lancifolia</i>	Algo Marginata
Ice Plant		<i>Carpobrotus edulis</i>	
Impatiens		<i>Impatiens wallerana</i>	
Iris		<i>Iris spp.</i>	Wedgewood Dwarf blue
Ivy, English		<i>Hedera helix</i>	Bulgaria Thorndale
Jasmine, Asian		<i>Tracheloperium asiaticum</i>	
Juniper		<i>Juniperus spp.</i>	Arcadia Armstrong Bar Harbor
		<i>Juniperus horizontalis</i>	Blue Chip Blue Pacific Blue Rug
		<i>Juniperus horizontalis</i>	Blue Star Broadmoor Buffalo Calgary Carpet Emerald Sea Emerald Spreader Endora Compacta Futlandi 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
		<i>Juniperus chinensis</i>	Tamariscifolia
		<i>Juniperus sabina</i>	Weberi Youngstown Yukon Belle

(BACK PANEL)

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King Palm	<i>Archontophoenix cunninghamiana</i>	
Laurel, Australian	<i>Pittosporum tobira</i>	
Laurel, Mountain	<i>Kalmia latifolia</i>	
Leucothoe	<i>Leucothoe fontanesiana</i>	
Lily, African	<i>Agapanthus africanus</i>	Albus Peter Pan
Lily, African Blue		
Lily of the Valley	<i>Priens japonica</i>	ML Fire
Lilyturf	<i>Liriope muscari</i>	Evergreen Giant Lilac Beauty Majestic Monroe White Variegata
Ligustrum, Japanese	<i>Ligustrum japonicum</i>	
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 Variegata
Mock Orange*	<i>Philadelphus spp</i>	Golden Snowflake Double White
Mopnd Grass	<i>Ophiopogon japonicus</i>	
Moss Rose	<i>Portulaca grandiflora</i>	Sunnyside
Myrtle, Grape	<i>Lagerstoemia indica</i>	Faurei Langer Muskogee Standard Pink
Myrtle, Wax	<i>Myrica cerifer</i>	
Nadina	<i>Nadina domestica</i>	Compacta 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>	Wirtigig
Palm, Bangalow		
Pampas Grass	<i>Cortadaria selloana</i>	
Paper Flower	<i>Bougainvillea glabra</i>	Barbara Karst
Pachysandra	<i>Pachysandra terminalis</i>	

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Peach*	<i>Prunus persica</i>	
Periwinkle, Dwarf	<i>Vinca minor</i>	
Petunia	<i>Petunia X hybrida</i>	Picotti
Photinia, Red Tip	<i>Photinia X fraseri</i>	
Pieris	<i>Pieris japonica</i>	
Pine, Australian	<i>Pinus nigra</i>	
Pine, Japanese Black	<i>Pinus thumbergia</i>	
Pine, Loblolly	<i>Pinus taeda</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>	Abbotswood
Privet	<i>Ligustrum japonicum</i>	Golden Vicary Regal Texanum Yellow Tipped Wax
Privet, Glossy	<i>Ligustrum lucidum</i>	
Pyracantha	<i>Pyracantha koidzumii</i>	
Queen Pam	<i>Arecastrum rammanzoffianum</i>	
Quince, Japanese*		
Rhododendron	<i>Rhododendron spp</i>	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink
Rhododendron, Carolina	<i>Rhododendron carolinianum</i>	
Rhododendron, Catawba	<i>Rhododendron catawbiense</i>	
Rodie Max (Rosebay)	<i>Rhododendron maximum</i>	
Rose	<i>Rosa banksiae</i>	Luta
Rosemary*	<i>Rosmarinum officinalis</i>	
Rosemary, Bog	<i>Andromeda polifolia</i>	Nana
Salvia	<i>Salvia farinacea</i>	Rhea
Sedum	<i>Sedum spum</i>	Dragon Blood Red Red Carpet Yellow
Spiraea	<i>Astilbe X arendsii</i>	Fanall

(BACK PANEL)

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Spiraea	<i>Spiraea spp.</i>	Anthony Waterer Red Dolchica Froebel Pink Goldenflame Red Snowmound White Van Houttee 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>	
Spruce, White	<i>Picea glauca</i>	
Sourwood	<i>Oxydendrum arboreum</i>	
Sweetflag, Grassy-Le		
Sweetgum	<i>Liquidambar styraciflua</i>	
Sycamore	<i>Platanus occidentalis</i>	
Tree Fern (Tiki Fern)	<i>Asparagus virgatus</i>	
Trumpet Flower, Evening	<i>Gelsemium sempervirens</i>	
Tulip	<i>Tulip, spp.</i>	Apeldoorn
Verbena, Shrub	<i>Lantana sellowiana</i>	
Vervain	<i>Verbena spp.</i>	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> <i>Taxus X media</i>	Denisiformis

*Ornamental species only: DO NOT USE ON FOOD PRODUCING TREES AND ORNAMENTALS

WEEDS CONTROLLED

When 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.

(BACK PANEL)

HOMEOWNER USE ONLY

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GRASSES

barley (*Hordeum* spp.)
 barnyardgrass (*Echinochloa crus-galli*)
 bluegrass, annual (*Poa annua*)
 brome (*Bromus* spp.)
 crabgrass, large (*Digitaria sanguinalis*)
 crabgrass, smooth (*Digitaria ischaemum*)
 crabgrass, Southern (*Digitaria ciliaris*)
 crowfootgrass (*Dactyloctenium aegyptium*)
 dallisgrass (seedling) (*Paspalum dilatum*)
 goosegrass (*Eleusine indica*)
 foxtail, green (*Setaria verti*)
 foxtail, yellow (*Setaria faberi*)
 kikuyugrass (*Pennisetum clandestinum*)
 oats, wild (*Avena fatua*)
 ryegrass (annual & perennial) (*Lolium* spp.)
 smutgrass (*Sporobolus poireti*)

BROADLEAF 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*)
 maretail (*Hippuris vulgaris*)
 medic, black (*Medicago lupulina*)
 mustard (*Brassica* spp.)
 oxalis, buttercup (*Oxalis pes-caprae*)
 pineappleweed (*Matricaria matricarioides*)
 pigweed, redroot (*Amaranthus retroflexus*)
 parsley-piert (*Achemilla avensis*)
 purslane, common (*Portulaca oleracea*)
 rocker, 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*)

MANUFACTURERS STATEMENT

This product conforms to the ingredient statement on the label. Manufacturer's directions regarding use of this product are based upon tests believed to be reliable. All statements made concerning this product apply only when used as directed under normal use conditions. FOLLOW DIRECTIONS CAREFULLY. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the manufacturer. Buyer assumes all risks of use, storage and handling of this product.

THIS PRODUCT IS SOLD AS IS. MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

Manufactured by:
 The Andersons, Lawn Fertilizer Division
 d/b/a Free Flow Fertilizer
 P.O. Box 119
 Maumee, OH 43537

Date Printed: 4/27/98
 Date Approved:
 Supersedes: 04/6/98
 Label Change: add ornamental uses
 Filename: 9198117h

170635

9198-117C
Page 1 of 19

(FRONT PANEL)

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THE ANDERSONS DITHIOPYR HERBICIDE IV

This product is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns and ornamental turfs.

ACTIVE INGREDIENTS:

Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-6-(trifluoromethyl)-S,S- dimethyl ester..... 0.25%

INERT INGREDIENTS..... 99.75%

TOTAL..... 100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT _____ LBS.

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 26 1998

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

9198-117

EPA Reg. No. 9198-117

EPA Est. No. 9198-OH-1

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NET WEIGHT ____ LBS.

The Andersons Dithiopyr Herbicide IV

GUARANTEED ANALYSIS

Total Nitrogen (N).....	16%
Available Phosphate (P ₂ O ₅).....	4%
Soluble Potash (K ₂ O).....	4%

Primary Plant Food derived from: Urea, Muriate of Potash, Ammoniated Phosphates.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

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.

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.

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.

(BACK PANEL)

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DIRECTIONS FOR USE

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

Read the entire label before using this product.

Use only according to label instructions.

) Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

New York Use Restrictions: In New York State this product may only be used by professional applicators and at no more than 4.6 pounds per 1000 square feet (equal to 0.5 pound active ingredient per acre); and is prohibited from use in Nassau and Suffolk Counties.

GENERAL INFORMATION

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 and greens. This product will not harm nearby established ornamentals when used according to label directions.

USE PRECAUTIONS

) TURFGRASS SAFETY

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 its 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:

(BACK PANEL)

COMMERCIAL USE ONLY

*(The above is for internal use only and will not appear on the final label copy)*Cool-Season Grasses

Bentgrass, creeping*
 Agrostis palustris
 Bluegrass, Kentucky
 Poa pratensis
 Fescue, fine**
 Festuca rubra
 Fescue, tall
 Festuca arundinacea
 Ryegrass, perennial
 Lolium perenne

Warm-Season Grasses

Bahiagrass
 Paspalum notatum
 Bermudagrass
 Cynodon dactylon
 Buffalograss***
 Buchloe dactyloides
 Carpetgrass
 Axonopus affinis
 Centipedegrass
 Eremochloa ophiuroides
 Kikuyugrass
 Pennisetum clandestinum
 St. Augustinegrass
 Stenotaphrum secundatum
 Zoysiagrass
 Zoysia japonica

* Use of this product on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', 'Seaside', and 'Washington' may result in undesirable turfgrass 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 fescue have been tested.

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

NOTE: It is recommended that use of this product be made on a trial basis initially to determine its safety under local use conditions and turf management practices before making widespread use.

RESEEDING, OVERSEEDING, 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.

(BACK PANEL)

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GOLF COURSE PUTTING GREENS

Putting greens should be well-drained and managed to promote the development of deep rooting systems. The use of this product on greens without good root development may result in undesirable turfgrass injury.

For golf courses which practice overseeding putting greens consisting of seasonal turfgrasses, application of this product to overseeded greens should be made within four weeks or less before the desired transition period from the overseeded turfgrass(es) back to the established "base" turfgrass.

Avoid application of this product to golf course putting greens that are under stress.

Undesirable thinning, yellow and rapid decline of established *Poa annua* may occur under stress conditions. DO NOT use this product on greens that have desirable *Poa annua* cover where summer heat and/or other stresses to *Poa annua* can occur and loss of some or all of that *Poa annua* cover is unacceptable. Use this product where the goal is to control and/or eliminate some or all of the *Poa annua* and where this loss can be tolerated.

Use of this product on 'Tifgreen' (328) hybrid bermudagrass greens may result in injury. Prior to use, test on a small section of turf.

DO NOT apply this product less than 60 days before covering greens for winter protection.

OTHER USE PRECAUTIONS

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

For best results, 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 the grass has recovered from these cultural practices.

Apply this product directly to established lawns or ornamental turfs only. DO NOT apply to flowers, vegetables, shrubs, or trees.

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

Keep people and pets off treated areas until dust has settled.

(BACK PANEL)

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APPLICATION DIRECTIONS

Table 1: Recommended Application Use Rates*
(lbs of this product/1000 sq. ft.)

PROGRAM	1	2	3	4
USE (turfgrass cut)	Preemergence (high)	Preemergence (low) Postemergence (high)	Preemergence (low) Postemergence (low)	Golf Course Putting Green Mowing Height less than 1/4 inch**
REGION				
North	1.2	1.7	2.3	2.3
Transition	1.7	2.3	3.4	2.3
South	2.3	3.4	4.6	2.3 + 2.3
Coastal South	3.4	4.6**	4.6**	3.4 + 2.3 + 2.3

*DO NOT apply more than 4.6 lbs. per application, and no more than 13.8 lbs. per year. Postemergence 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, southeastern 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.

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 during the early stages of crabgrass growth after the crabgrass has emerged from the ground. However, it is often difficult to see the very small, early stages of crabgrass in well-established lawns and ornamental turfs. Postemergence crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally

(BACK PANEL)

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corresponds to the time when you can first easily see the crabgrass plants in the lawn or turf. So the practical benefit of this product's additional, early postemergence activity is that (compared to strictly preemergence crabgrass products) it can give the user a 2-4 week longer period of time to make applications and still control crabgrass.

Application Frequency and Timing

This product may be applied as a single application, as a split application, or as a sequential application for crabgrass control in the spring, summer, or fall.

DO NOT apply more than 4.6 lbs. per 1000 sq. ft. per application, and no more than 13.8 lbs. per 1000 sq. ft. per year.

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 three control programs listed in Table 1 below, depending on the user's location, the turfgrass mowing height, and whether the use is considered to be preemergence or early postemergence at the time of the application. The duration of residual weed control provided by this product is directly related to the total rate applied, but will vary somewhat depending on weather, weed pressure, turfgrass competitiveness, and the user's location within a region.

Use Program 1 for 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 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 at sites where turfgrass is cut high (e.g., homeowner lawns).

Use Program 3 for preemergence control at sites where (a) turfgrass is cut low (e.g., golf fairways) and (b) turf 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 at sites where turfgrass is cut low (e.g., golf fairways).

Subsequent, sequential pre- and/or postemergence applications should be made where longer periods of control are desired.

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

(BACK PANEL)

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This product can also be applied in the late summer or early fall (late August through November) at the "Program 3" use rates listed in Table 1 to provide control of crabgrass through the early part of the next spring.

The fall application should 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) applications 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, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

barnyardgrass	lespedeza (common)
bluegrass (annual, roughstalk)	oxalis (buttercup, creeping & yellow woodsorrel)
goosegrass	purslane (common)
crowfootgrass	speedwell (corn)
foxtail (yellow & green)*	spurge (prostrate & spotted)
kikuyugrass	
ryegrass (annual & perennial)	
smutgrass	
*Also controlled at the Program 2 rates.	

Fall Applications. Used as directed for late summer or early fall use, for crabgrass control through the early part of the next spring, this product will also control (at the "Program 3" rates) or suppress (at the "Program 2" rates) the following weeds when applied prior to their emergence:

bluegrass (annual)-Poa annua	geranium (Carolina)
bittercress	parsley-piert
chickweed	pineappleweed
henbit	shepherdspurse

(BACK PANEL)

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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 lawn or ornamental turf area. 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 applying uniform distribution of granules.

Suggested Spreader Settings

(Available at final printing)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Keep container closed and away from food, feedstuffs, and domestic water supplies. PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

(BACK PANEL)

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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, 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 which 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 4.6 pounds per 1,000 square feet per application and no more than 13.8 pounds (4.6 pounds in New York) per 1,000 square feet per year. Do not apply in Nassau and Suffolk Counties of New York.

Pounds of Product
per 1,000 square feet
4.6

Ounces of Product
per 100 Square Feet
7.36

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.

(BACK PANEL)

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- 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
	Ajuga genevensis	Bronze Beauty
Almond, Flowering	Prunus glandulosa	
Apple*	Malus pumila	
Arbovitae	Thuja occidentalis	Nigra
		Pyramidalis
		Smaragh
		Techny
		Woodwardii
Arbovitae, Golden	Thuja orientalis	
Aster, Chinese	Callistephus chinensis	Dwarf Queen
Ash, Green	Fraxinus pennsylvanica	
Ash, Mountain	Sorbus aucuparia	
Ash, Purple	Fraxinus americana	
Azalea	Rhododendron spp	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	Rhododendron calendulaceum	
Azalea, Kiriishima		
Bamboo, Heavenly		

(BACK PANEL)

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Barberry	Berberis thunbergii	Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Bearberry (common)	Arctostaphylos uva-ursi	Massachusetts
Birch, River	Betula nigra	
Blueberry*	Vaccinium spp.	Bluecorp Blue Jay Jersey North Blue Northland
Bottlebrush	Callistemon citrinum	
Boxwood, Japanese		Japonica
Boxwood, Weier	Buxus sempervirens	
Broom	Cytisus spp.	Moonlight
Broom	Genista pilosa	Vancouver Gold
Bugle Carpet		
Carex, Variegated	Carex	
Camellia	Camellia japonica	Debutante Mathotiana Supreme Charisonette
	Camellia sasangua	
Cedar, Red	Juniperus virginiana	
Cockscomb, Plumosa	Celosia cristata	Red Kewpie
Coleus	Coleus blumei	
Copper leaf	Acalypha wilkesiana	
Cotoneaster	Cotoneaster apiculatus	
Cycads	Cycads revoluta	
Coyotebrush	Baccharis pelularis	
Cypress, Bald	Taxodium distichum	
Cypress, Italian	Cupressus sempervirens	Glaucia
Cypress, Leyland	Cupressocyparis leylandii	
Cypress, Japanese False	Chamaecyparis obtusa	Gracilis
Daffodil	Narcissus spp.	King Alfred
Daylily	Heemerocallis spp.	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow
Dogwood	Cornus florida	

(BACK PANEL)

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Dogwood, American	Cornus sericea	
Douglas Fir	Pseudotsuga menziesii	
Dusty Miller	Senecio cineraria	
Elm, Drake	Ulmus parvifolia	
Euonymus	Euonymus fortunei	Argenteo-variegata Aureo-marginata Colorata Emerald Gaiety Emerald 'N Gold Gold Edge Gold Princess Silver King Tricolor Vegetus
Fan Palm, European	Chamaerops humilis	
Fan Palm, Mexican	Washingtonia robusta	
Fescue	Festuca glauca	
Fetterbush	Leucothoe fontiana	Rainbow
Ficus	Ficus retusa	Nitida
Forsythia	Forsythia X intermedia	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
Fir Fraser	Abies fraseri	
Gardenia	Gardenia jasminoides	Mystery Radicans
Geranium	Pelargonium X hortorum	
Gum	Eucalyptus citriodora	
Hawthorn	Crataegus spp.	Cockspur White Crimson Cloud Enchantress Jack Evans Washington White
Heather, Twisted	Erica cinerea	Mediterranean Pink
Hibiscus	Hibiscus spp.	Brilliant Hula Girl Blue Bird
Hemlock, Canada	Tsuga canadensis	

(BACK PANEL)

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Holly	Ilex spp.	Blue Boy
	Ilex X meserveae	Blue Girl
		Burfodii
		China Girl
		Clompacta
		Forsteri
		Helleri
		Japanese Northern Beauty
		Needlepoint
		Neillie R. Stevens
		Savannah
	Ilex X attenuata	
Holly, Chinese	Ilex cornuta	
Holly, Japanese	Ilex crenata	
Holly, Yaupon	Ilex vomitoria	
Honeysuckle	Lonicera japonica	Clavey's Dwarf
		Halliana
		Tatarian Canadian White
		Zebelli Red Hosta
Hosta	Hosta spp.	Algo 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
		Broadmoor
		Buffalo
		Calgary Carpet
		Emerald Sea
		Emerald Spreader
		Endora Compacta
		Fuitlandi
		Green

(BACK PANEL)

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

(BACK PANEL)

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Mock Orange*	Philadelphus spp	Golden Snowflake Double White
Mopido Grass	Ophiopogon japonicus	
Moss Rose	Portulaca grandiflora	Sunnyside
Myrtle, Crape	Lagerstoemia indica	Faurel Langer Muskogee Standard Pink
Myrtle, Wax	Myrica cerifera	
Nadina	Nadina domestica	Compacta Nana
Oleander	Nerium oleander	Hardy Red Petite Pink Sister Agnes
Oak, Laurel	Quercus launfolia	
Oak, Pin	Quercus palustris	
Oak, Red	Quercus rubra	
Oak, Southern L.	Quercus virginiana	
Oak, Willow	Quercus phellos	
Oleospermum	Osteospermum fruticosum	Wirligig
Palm, Bangalow		
Pampas Grass	Cortadaria selloana	
Paper Flower	Bougainvillea glabra	Barbara Karst
Pachysandra	Pachysandra terminalis	
Peach*	Prunus persica	
Periwinkle, Dwarf	Vinca minor	
Petunia	Petunia X hybrida	Picoti
Photinia, Red Tip	Photinia X fraseri	
Pieris	Pieris japonica	
Pine, Australian	Pinus nigra	
Pine, Japanese Black	Pinus thunbergiana	
Pine, Loblolly	Pinus taeda	
Pine, Longleaf	Pinus palustris	
Pine, Mugho	Pinus mugho	
Pine, Scotch	Pinus sylvestris	
Pine, Slash	Pinus ellottii	
Pine, Swiss Mt.	Pinus mugo	
Pine, Virginia	Pinus virginiana	
Pine, White	Pinus strobus	
Pineapple, Guava	Feijoa fellowalana	
Pittosporum, Japan		
Potentilla	Potentilla fruticosa	Abbotswood

(BACK PANEL)

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Privet	Ligustrum japonicum	Golden Vicary Regal Texanum Yellow Tipped Wax
Privet, Glossy	Ligustrum lucidum	
Pyracantha	Pyracantha koidzumii	
Queen Pam	Arecastrum rammanzoffianum	
Quince, Japanese*		
Rhododendron	Rhododendron spp	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink
Rhododendron, Carolina	Rhododendron carolinianum	
Rhododendron, Catawba	Rhododendron catawbiense	
Rodie Max (Rosebay)	Rhododendron maximum	
Rose	Rosa banksiae	Lula
Rosemary*	Rosmarinum officinalis	
Rosemary, Bog	Andromeda polifolia	Nana
Salvia	Salvia farinacea	Rhea
Sedum	Sedum spurius	Dragon Blood Red Red Carpet Yellow
Spiraea	Astilbe X arendsii	Fanall
Spiraea	Spiraea spp	Anthony Waterer Red Dolchica Froebel Pink Goldenflame Red Snowmound White Van Houttee White
Spiraea, Garland	Spiraea spp	
Spruce, Black Hills	Picea glauca	
Spruce, Colorado Blue	Picea pungens	
Spruce, Norway	Picea abies	
Spruce, White	Picea glauca	
Sourwood	Oxydendrum arboreum	
Sweetflag, Grassy-Le		
Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	
Tree Fern (Tiki Fern)	Asparagus virgatus	

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Trumpet Flower, Evening	Gelsemium sempervirens	
Tulip	Tulip, spp	Apeldoorn
Verbena, Shrub	Lantana sellowiana	
Vervain	Verbena spp	St. Paul
Viburnum	Viburnum spp	American Cranberry Bush Arrowwood Common Snowball European Cranberry Bush Linden Mohican Wright
Windmill Palm	Trachycarpus fortunei	
Xylosma	Xylosma congestum	
Yaupon	Ilex vomitoria	Dwarf
Yew	Taxus cuspidata Taxus X media	Denisiformis

Ornamental species only: DO NOT USE ON FOOD PRODUCING TREES AND ORNAMENTALS*WEEDS CONTROLLED**

When 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 (*Echinochloa crus-galli*)
 bluegrass, annual (*Poa annua*)
 brome (*Bromus* spp.)
 crabgrass, large (*Digitaria sanguinalis*)
 crabgrass, smooth (*Digitaria ischaemum*)
 crabgrass, Southern (*Digitaria ciliaris*)
 crowfootgrass (*Dactyloctenium aegyptium*)
 dallisgrass (seedling) (*Paspalum dilatatum*)
 goosegrass (*Eleusine indica*)
 foxtail, green (*Setaria verti*)
 foxtail, yellow (*Setaria faberi*)
 kikuyugrass (*Pennisetum clandestinum*)
 oats, wild (*Avena fatua*)
 ryegrass (annual & perennial) (*Lolium* spp.)
 smutgrass (*Sporobolus poireti*)

BROADLEAF WEEDS

bittercress (*Cardamine* spp.)
 carpetweed (*Mollugo verticillata*)
 chickweed (*Stellaria* spp.)
 geranium, Carolina (*Geranium carolinianum*)
 henbit (*Lamium* spp.)
 knotweed, prostrate (*Polygonum saviculare*)
 lespedeza, common (*Lepedeza striata*)
 marestalk (*Hippuris vulgaris*)
 medic, black (*Medicago lupulina*)
 mustard (*Brassica* spp.)
 oxalis, buttercup (*Oxalis pes-caprae*)
 pineappleweed (*Matricaria matricarioides*)
 pigweed, redroot (*Amaranthus retroflexus*)
 parsley-piert (*Alchemilla avensis*)
 purslane, common (*Portulaca oleracea*)
 rocker, London (*Sisymbrium ino*)
 shepherdspurse (*Capsella bursa-pastoris*)

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	speedwell, corn (<i>Veronica arvensis</i>)
	spurge, garden (<i>Euphorbia hirta</i>)
	spurge, prostrate (<i>Euphorbia humistrata</i>)
	spurge, spotted (<i>Euphorbia maculata</i>)
	woodsorrel, creeping (<i>Oxalis corniculata</i>)
	woodsorrel, yellow (<i>Oxalis stricta</i>)

MANUFACTURERS STATEMENT

This product conforms to the ingredient statement on the label. Manufacturer's directions regarding use of this product are based upon tests believed to be reliable. All statements made concerning this product apply only when used as directed under normal use conditions. FOLLOW DIRECTIONS CAREFULLY. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the manufacturer.

THIS PRODUCT IS SOLD AS IS. MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

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