

707-284

04/18/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ann M. Tillman, Ph.D.  
Product Registration Manager  
Rohm and Haas Company  
100 Independence Mall West  
Philadelphia, PA 19106-2399

APR 18 2001

Dear Dr. Tillman:

Subject: DIMENSION<sup>3</sup> Ultra WSP Turf and Ornamental Herbicide  
EPA Registration No. 707-284  
Application and Letter Dated April 3, 2001, Request To  
Amend Registration To Add "Coveralls" To Be Worn When  
Long-sleeved Shirt and Long Pants Are Required for  
Pesticide Handlers, To Comply with EPA Worker  
Protection Standard (WPS)

The proposed labeling reflecting required use of "coveralls" when long-sleeved shirt and long pants are required under WPS has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act, as amended; provided that you:

- o Submit one (1) copy of the final printed label before you release the product for shipment under this label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of the product under this label constitutes acceptance of this condition.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

*for Eugene M. Wilson*

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

Enclosure

15846-81

# DIMENSION<sup>®</sup> Ultra

TURF AND ORNAMENTAL HERBICIDE  
IN WATER-SOLUBLE POUCHES



DIMENSION<sup>®</sup> ULTRA WSP is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns, commercial sod farms, ornamental turf (including golf course fairways, roughs, tee boxes, and putting greens) and landscape ornamentals.

In New York State this product may only be used by professional applicators at no more than 0.625 pounds per acre per year (10 ounces) or 2 water-soluble pouches per acre per year (0.25 pounds active ingredient).

#### ACTIVE INGREDIENT

Dithiopyr, 3,5-pyridinedicarbonyloic acid, 2-(difluoromethyl)-4-(2-methylpropyl)-5-(trifluoromethyl)-S,S-dimethyl ester	40%
INERT INGREDIENTS	60%
<b>Total</b>	<b>100%</b>

Each 5-ounce water-soluble pouch contains 0.125 lbs. of active ingredient. Product protected by U.S. Patent No. 4,592,184. Other patents pending.

EPA REG. NO. 707-284

### KEEP OUT OF REACH OF CHILDREN CAUTION

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**APR 18 2001**

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

**707-284**

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have the person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-215-592-3000 day or night, for emergency medical treatment information.	

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

Causes eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid breathing dust. Remove contaminated clothing and wash clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers (other than mixers or loaders) must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides [40 CFR 170.240(c)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This 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 a manner inconsistent with its labeling.  
 Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.  
 For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.  
 PPE required for entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

- Keep unprotected persons out of treated area until sprays have dried.

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.

**CONDITIONS OF SALE AND WARRANTY**

ROHM and HAAS 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. ROHM AND HAAS 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 ROHM and HAAS 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, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

**GENERAL INFORMATION FOR PROFESSIONAL TURF USE**

This product is not recommended for application by homeowners.

DIMENSION ULTRA WSP is a selective herbicide that provides control of crabgrass and other annual grasses and broadleaf weeds in established lawns, commercial sod farms and ornamental turfs, including golf course fairways, roughs, tee boxes, and putting greens.

This product will not harm established ornamentals identified as "TOLERANT ORNAMENTALS" on this label when used according to label directions.

The performance of this product is improved if application is followed by 1/2 inch of rainfall or sprinkler irrigation. If this product is not activated by rainfall or irrigation within 30 days of application, erratic weed control may result.

**USE PRECAUTIONS FOR PROFESSIONAL TURF USE**

**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 turf that is not well-established, or has been weakened by weather, pest-, disease-, chemical-, mechanical- or other related-stress, may result in turf injury.

This product should only be applied to turf that is 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 (see the "Golf Course Putting Greens" precautions section for additional turfgrass safety information):

**Cool-Season Grasses**

- Bentgrass, Creeping\*
- Bluegrass, Kentucky
- Fescue, Fine\*\*
- Fescue, Tall
- Ryegrass, Perennial
- Agrostis palustris
- Poa pratensis
- Festuca rubra
- Festuca arundinacea
- Lolium perenne

**Warm-Season Grasses**

- Bahiagrass
- Bermudagrass\*\*\*
- Buffalograss\*\*\*\*
- Carpentergrass
- Centipedegrass
- Kentuckygrass
- Seashore Paspalum
- St. Augustinegrass
- Zoysiagrass
- Paspalum notatum
- Cynodon dactylon
- Buchloe dactyloides
- Axonopus affinis
- Eremochloa ophiuroides
- Pennisetum clandestinum
- Paspalum vaginatum
- Stenotaphrum secundatum
- Zoysia japonica

\* Use of this product is not recommended on certain varieties of creeping bentgrass, such as 'Cohansey', 'Carmen', 'Seaside', and 'Washington,' as undesirable turfgrass injury may result. 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 is not recommended, as use 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', 'F-93', 'Highlight', 'Ivalo', 'Jamestown', 'Koket', 'Majenta', 'Mary', 'Pennawn', 'Tamara', 'Tajana', 'Waldorf', and 'Waldina'. Not all varieties of fine fescue have been tested.

\*\*\* Use of this product on 'Tigreen' (328) hybrid bermudagrass greens is not recommended, as use may result in undesirable turfgrass injury.

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

**RESEEDING, OVERSEEDING, OR SPRIGGING**

Reseeding, overseeding, or sprigging of treated areas within ten weeks after a single application of this product, or four months after a split application program totaling more than 0.46 oz./1000 sq. ft. (1.25 lbs./A), may inhibit the establishment of desirable turfgrasses.

Overseeding Bermudagrass with perennial ryegrass may be made eight weeks after an application of this product. 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**

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.

Application of this product to overseeded greens should be made less than four weeks before the transition period from overseeded turfgrass back to established turfgrass.

Do not apply this product to golf course putting greens that are under stress. High temperatures cause stress to greens increasing the risk of turfgrass injury. Do not use this product if *Poa annua* cover is desirable.

Use of this product on 'Tifgreen' (328) hybrid Bermudagrass greens may result in undesirable turfgrass injury.

DO NOT apply this product to Colonial bentgrass greens.

For additional margins of turfgrass safety on greens and where consistent with local use guides, consider the use of split applications (made at rates equal to one-half of the Program 3 single application use rate recommended for your region in Table 1 on this label) spaced six to eight weeks apart.

DO NOT tank-mix this product with other products (other than marking dyes or foams) for application to greens.

DO NOT use this product on putting greens that have been treated within four weeks with a plant growth regulator.

DO NOT apply this product in the fall before covering greens for winter protection.

Properly calibrate application equipment prior to usage, and DO NOT apply this product through equipment that uses cluster spray nozzles (due to variability in application use rates and spray patterns).

**SOD PRODUCTION**

DO NOT apply this product until sod is well established. It is recommended that sod be established for at least six (6) months before a DIMENSION ULTRA WSP Turf and Ornamental Herbicide application is made.

DO NOT apply this product within three (3) months of harvest.

**OTHER USE PRECAUTIONS**

Early postemergence applications of this product will control crabgrass only if applied prior to the fifth leaf (first tiller) stage of growth of crabgrass.

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.

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

DO NOT graze livestock or feed foliage cut from areas treated with this product.

**APPLICATION DIRECTIONS**

**APPLICATION EQUIPMENT AND INSTRUCTIONS**

Apply this product through conventional liquid application equipment in a sufficient volume of carrier solution to provide a uniform spray distribution. DO NOT apply this product through liquid application equipment that uses cluster spray nozzles or other boomless spray equipment due to variability in application use rates and spray patterns. Calibrate application equipment prior to usage. Avoid streaking, skips, or excess overlaps during application. The use of marker dyes or foams aids in making more-accurate applications.

DO NOT apply this product through any type of irrigation system.

**HANDLING**

The enclosed pouches are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

**MIXING PROCEDURES**

Be sure sprayer is clean and not contaminated with other materials prior to use. Fill tank 1/4 to 1/2 full with clean water and start agitation. Be certain that the agitation system is working properly and creates a rolling or rippling on the liquid surface. With the agitator running, drop the required number of unopened water-soluble pouches into the tank. Continue filling tank with the remainder of the water. Always add DIMENSION ULTRA WSP into solution prior to adding any additional materials to the tank. Depending on the water temperature and degree of agitation, the pouches should dissolve completely within ten minutes after their addition to water. Keep the spray solution properly agitated to prevent setting.

NOTE: DIMENSION ULTRA WSP is compatible with boron and spray oils; however, the water-soluble pouches must be completely dissolved before adding spray oils or products containing boron to spray mixtures.

**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. Early postemergence 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 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 two to eight week longer period of time (depending on climatic conditions and crabgrass growth rates) 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 four water-soluble pouches per acre or 0.46 oz./1000 sq. ft. (1.25 lbs./A) per application, and no more than 12 water-soluble pouches per acre or 1.375 oz./1000 sq. ft. (3.75 lbs./A) per year if using split or sequential applications.

In New York State, do not apply more than two water-soluble pouches per acre or 0.23 oz./1000 sq.ft. (0.625 lbs./A) per year.

**SPRING APPLICATIONS**

For 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, depending on the user's location, the mowing height of the turfgrass, 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 turfgrass is cut relatively high (e.g., homeowner lawns). This program provides three to five months of preemergence crabgrass control. This program will also provide early post-emergence control of crabgrass up to the three-leaf stage at sites where turfgrass is cut relatively high (e.g., homeowner lawns).

**Use Program 2** for preemergence control at sites where (a) turfgrass is cut relatively low (e.g., golf fairways), and (b) turfgrass maintenance or weed control has been conducted during the previous year. This program provides four to six months of preemergence crabgrass control. This program may also be used for early postemergence control up to crabgrass tillering at sites where turfgrass is cut relatively high (e.g., residential lawns).

**Use Program 3** for preemergence control at sites where (a) turfgrass is cut relatively low (e.g., golf fairways) and (b) turf maintenance or weed control has not been conducted during the previous year. This program provides four to six months of preemergence crabgrass control. This program may also be used for early postemergence control up to crabgrass tillering at sites where turfgrass is cut relatively low (e.g., golf fairways).

Subsequent, sequential pre- and/or postemergence applications should be made where longer periods of control are desired. Split applications may also be made, with the rates in Table 1 being split across two applications made five to ten weeks apart. Such applications may provide improved weed control.

**TABLE 1 - RECOMMENDED USE RATES**

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

DO NOT apply more than four water-soluble pouches per acre or 0.46 oz./1000 sq. ft. (1.25 lbs./A) per application. If using split or sequential applications, do not apply more than twelve water-soluble pouches per acre or 1.375 oz./1000 sq.ft. (3.75 lb./A) per year.

In New York State, do not apply more than two water-soluble pouches per acre or 0.23 oz./1000 sq. ft. (0.625 lbs./A) per year.

**Note: One water-soluble pouch = five ounces of formulated product.**

REGION		PROGRAM 1	PROGRAM 2	PROGRAM 3
ALL STATES* AND PARTS OF STATES NOT LISTED IN TRANSITION, SOUTH COASTAL SOUTH OR WEST	NO. SQ. FT. TREATED PER WATER-SOLUBLE POUCH	29,000	21,800	14,375
	NO. OF POUCHES PER ACRE	1.5 <sup>b</sup>	2	3
	LB. PER ACRE	0.47	0.625	0.95
	LB. A/PER ACRE	0.188	0.25	0.38
TRANSITION - DE, KS, KY, MD, MO, NJ, VA, southeastern PA, southern areas of IL, IN, OH & coastal areas of CT & RI	NO. SQ. FT. TREATED PER WATER-SOLUBLE POUCH	21,800	14,375	10,900
	NO. OF POUCHES PER ACRE	2	3	4
	LB. PER ACRE	0.625	0.95	1.25
	LB. A/PER ACRE	0.25	0.38	0.50
South - AL, AR, GA, LA, MS, NC, NM, OK, SC, TN & TX	NO. SQ. FT. TREATED PER WATER-SOLUBLE POUCH	14,375	10,900	8,700
	NO. OF POUCHES PER ACRE	3	2 + 2 <sup>c</sup>	2.5 + 2.5 <sup>b,c</sup>
	LB. PER ACRE	0.95	0.625 + 0.625	0.78 + 0.78
	LB. A/PER ACRE	0.38	0.25 + 0.25	0.31 + 0.31
Coastal South - HI, FL & southern coastal areas of AL, GA, LA, MS, NC, SC & TX	NO. SQ. FT. TREATED PER WATER-SOLUBLE POUCH	10,900	8,700	7,200
	NO. OF POUCHES PER ACRE	2 + 2 <sup>c</sup>	2.5 + 2.5 <sup>b,c</sup>	3 + 3 <sup>c</sup>
	LB. PER ACRE	0.625 + 0.625	0.78 + 0.78	0.95 + 0.95
	LB. A/PER ACRE	0.25 + 0.25	0.31 + 0.31	0.38 + 0.38
WEST - AZ, CA, & NV. In this climatically diverse region, use the higher rates in local areas with longer crabgrass seasons.	NO. SQ. FT. TREATED PER WATER-SOLUBLE POUCH	21,800 - 29,000	14,375 - 21,800	10,900
	NO. OF POUCHES PER ACRE	1.5 - 2 <sup>b</sup>	2 - 3	2 + 2 <sup>c</sup>
	LB. PER ACRE	0.47 - 0.625	0.625 - 0.95	0.625 + 0.625
	LB. A/PER ACRE	0.18 - 0.25	0.25 - 0.38	0.25 + 0.25

\* In New York State, do not apply more than two water-soluble pouches per acre or 0.23 oz./1000 sq. ft. (0.625 lbs./A) per year.

<sup>b</sup> The water-soluble bag should not be opened. The water-soluble bag is not designed to be re-measured or subdivided. Treat an appropriate number of acres to use a whole number of bags.

<sup>c</sup> Split applications may be made five to ten weeks apart.

**FALL APPLICATIONS**

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 may be followed by an appropriate spring application to provide season-long control. Apply no more than four water-soluble pouches per acre or 0.46 oz./1000 sq. ft. (1.25 lbs./A) per application, and apply no more than 12 water-soluble pouches per acre or 1.375 oz./1000 sq. ft. (3.75 lbs./A) per year if using split or sequential applications.

In New York State, do not apply more than two water-soluble pouches per acre or 0.23 oz./1000 sq. ft. (0.625 lbs./A) per year.

**CONTROL OF OTHER GRASS AND BROADLEAF WEEDS**

**WEEDS CONTROLLED**

Used as directed, DIMENSION ULTRA WSP Turf and Ornamental Herbicide 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  
barnyardgrass  
bluegrass, annual  
brome  
crabgrass, large  
crabgrass, smooth  
crabgrass, Southern  
crowfootgrass  
dallisgrass (seedling)  
foxtail, green  
foxtail, yellow  
goosegrass  
kikuyugrass  
oats, wild  
ryegrass (annual & perennial)  
smutgrass

*Hordeum* spp.  
*Echinochloa crus-galli*  
*Poa annua*  
*Bromus* spp.  
*Digitaria sanguinalis*  
*Digitaria ischaemum*  
*Digitaria ciliaris*  
*Dactyloctenium aegyptium*  
*Paspalum dilatatum*  
*Setaria verti*  
*Setaria faberi*  
*Elyusine indica*  
*Pennisetum clandestinum*  
*Avena fatua*  
*Lolium* spp.  
*Sporobolus indicus*

**BROADLEAF WEEDS**

bittercress  
carpetweed  
chickweed  
geranium, Carolina  
henbit  
knotweed, prostrate  
lespedeza, common  
marestail  
medic, black  
mustard  
oxalis, buttercup  
parsley-piert  
pigweed, redroot  
pineappleweed  
purslane, common  
rocket, London  
shepherdspurse  
speedwell, corn  
spurge, garden  
spurge, prostrate  
spurge, spotted  
woodsorrel, creeping  
woodsorrel, yellow

*Cardamine* spp.  
*Mollugo verticillata*  
*Stellaria* spp.  
*Geranium carolinianum*  
*Lamium* spp.  
*Polygonum saviculare*  
*Lespedeza striata*  
*Conyza canadensis*  
*Medicago lupulina*  
*Brassica* spp.  
*Oxalis pes-caprae*  
*Alchemilla arvensis*  
*Amaranthus retroflexus*  
*Matricaria matricarioides*  
*Portulaca oleracea*  
*Sisymbrium irio*  
*Capsella bursa-pastoris*  
*Veronica arvensis*  
*Euphorbia hirta*  
*Euphorbia humistrata*  
*Euphorbia maculata*  
*Oxalis corniculata*  
*Oxalis stricta*

**TANK MIXTURES**

READ THE LABEL OF EACH TANK MIXTURE PRODUCT USED AND FOLLOW THE PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, AND OTHER RESTRICTIONS. DO NOT TANK-MIX THIS PRODUCT WITH OTHER PRODUCTS (EXCEPT MARKER DYES AND FOAMS) FOR APPLICATION TO GOLF GREENS.

This product may be tank-mixed with fluid fertilizers and/or MSMA and Acclaim®. A compatibility test is suggested before tank-mixing this product.

**TANK MIXTURES FOR POSTEMERGENCE CONTROL OF CRABGRASS**

Application of this product alone provides early postemergence control of crabgrass when treated prior to reaching the tillering stage of growth. For postemergence control of tillered crabgrass up to three tillers, this product should be applied in combination with either MSMA or Acclaim.

Use the lower rate if preemergence herbicides have been applied prior to the postemergence application, otherwise use the high rate.

Observe all limitations, precautionary statements, and use restrictions on labels for MSMA or Acclaim when using these tank mixtures. Refer to specific turfgrass species for safety information for these products. The addition of a nonionic surfactant may improve control. Always read and follow the surfactant manufacturer's label recommendations.

**MIXING INSTRUCTIONS**

**DIMENSION ULTRA WSP ALONE WITH WATER AS THE CARRIER**

Fill the previously cleaned spray tank to about three-fourths of the desired volume with water and agitate the tank. Add the recommended amount of this product to the tank and agitate. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the water source.

**DIMENSION ULTRA WSP ALONE WITH FLUID FERTILIZER AS THE CARRIER**

First, determine the compatibility of this product with the desired fluid fertilizer by mixing small proportional quantities in advance. Follow the mixing procedure listed below for tank mixtures.

**TANK MIXTURES**

1. Place a 20- to 35-mesh screen or wetting basket over the filling port.
2. Fill the previously cleaned sprayer half full with the appropriate carrier. Start agitation and continue agitation through mixing and spraying operations.
3. Add a compatibility agent if needed. Read and follow all of the information found on the product label for the selected compatibility agent. Check for adequate agitation.
4. Add this product to the tank and allow the water-soluble pouch to dissolve.
5. If a flowable pesticide formulation is used, premix with one part water, and add SLOWLY to the tank.
6. Add emulsifiable concentrate to the tank.

7. If wettable powder or dry flowable pesticide formulation is used, make a slurry with the water, and add it SLOWLY to the tank.
8. Add water-soluble liquid pesticide formulations followed by surfactants, marker dyes or foams, or drift control additives while continuing the filling process.
9. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source.
10. Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, agitate thoroughly to resuspend the mixture before resuming spraying.

**USE DIRECTIONS FOR ORNAMENTAL PLANTINGS AND CONTAINERS**

DIMENSION ULTRA WSP Turf and Ornamental Herbicide provides preemergence control of listed annual grass and broadleaf weeds in areas planted with tolerant ornamental plants listed on this label.

It is intended for use on plants being grown for aesthetic purposes in landscaped areas. When applied as directed, the ornamental plants listed on this label have shown tolerance to post-directed applications of DIMENSION ULTRA WSP Turf and Ornamental Herbicide.

It is impossible, however, to evaluate tolerance to this product on 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.

**NOTE:** This product is not recommended for use as an over-the-top broadcast spray in landscape ornamentals. Foliage that receives direct or indirect (drift) spray contact may be injured. The injury is typically cosmetic and the plants normally outgrow this condition rapidly and develop normally.

**USE RATES**

Apply DIMENSION ULTRA WSP Turf and Ornamental Herbicide with a calibrated sprayer which will assure accurate, even spray distribution. In general, DIMENSION ULTRA WSP Turf and Ornamental Herbicide should be thoroughly mixed with clean water at four water-soluble pouches per acre or 0.46 oz. of product/1000 sq. ft. (1.25 lbs./A) per application and applied at 20 to 40 psi in a minimum of one gallon of water per 1000 sq. ft. One five-ounce water-soluble pouch treats 11,000 sq. ft. This product may be applied as a single application or as a split application prior to weed seed germination.

**DO NOT** apply more than four water-soluble pouches per acre or 0.46 oz./1000 sq. ft. (1.25 lbs./A) per application, and no more than 12 water-soluble pouches per acre or 1.375 oz./1000 sq. ft. (3.75 lbs./A) per year, if using split or sequential applications. This product may be applied as a split application or as a sequential application for weed control in the spring, summer or fall. Refer to the following table for product recommendations when treating a small area. In New York State, do not apply more than two water-soluble pouches per acre or 0.23 oz./1000 sq. ft. (0.625 lbs./A) per year.

POUNDS PRODUCT/ACRE	OUNCES DIMENSION ULTRA WSP PER 1000 Sq. Ft.	NO. OF SQ. FT. TREATED PER WATER-SOLUBLE POUCH
0.95	0.46	11,000

**APPLICATION TIMING AND RECOMMENDATIONS**

Apply DIMENSION ULTRA WSP Turf and Ornamental Herbicide as a post-directed spray around established ornamentals. Direct sprays to the soil at the base of the ornamentals avoiding contact or drift to foliage.

DIMENSION ULTRA WSP is a preemergence herbicide that will control germinating weeds. It will not control weeds that are established. Make applications prior to weed seed germination or to bare ground. The best weed control is obtained when applications are made to soil that is free of clods, weeds and debris such as leaves. Prior to making an application, control existing vegetation by hand weeding, by 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. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of this product and plant roots.

**PRECAUTIONS**

- Only apply this product to established ornamentals.
- Do not apply this product to bare roots 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 around ornamental plants that have been weakened or 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 diseases).
- Do not make applications when weather conditions favor drift to non-target areas. This product may injure foliage of non-target plants not identified as "TOLERANT ORNAMENTAL PLANTS" on this label.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.
- Do not apply this product in enclosed structures and greenhouses.
- Do not apply another herbicide within four weeks of application of 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. Under your growing conditions, a limited number of plants should be treated for tolerance evaluations, prior to initiating large-scale applications. 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>	
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</i> spp.	Brilliant Buccaneer Carror Chimes (Belgian) Elsie Lee Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hincrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm
Azalea, Flame	<i>Rhododendron calendulaceum</i>	
Azalea, Kirishima		
Bamboo, Heavenly		
Barberry	<i>Berberis thunbergii</i>	Aurea Dwarf Pigmy Green Kobold Pygmy Red Rose Glow
Barberry, Purple		Atropurpurea
Basket Flower	<i>Gaillardia grandiflora</i>	
Beach Grass	<i>Ammophila breviflora</i>	
Bearberry (common)	<i>Arctostaphylos uva-ursi</i>	Massachusetts
Bee Balm	<i>Monarda didyma</i>	
Begonia	<i>Begonia</i> spp.	
Birch, River	<i>Betula nigra</i>	
Blackeyed Susan	<i>Rudbeckia hirta</i>	Goldstrum
Blanket Flower	<i>Gaillardia</i> spp.	
Blueberry *	<i>Vaccinium</i> spp.	Bluecrop Blue Jay Jersey North Blue Northland
Blue Fescue	<i>Festuca ovina</i>	
Bottlebrush	<i>Callistemon citrinus</i>	
Boxwood, Japanese		Japonica
Boxwood, Weller	<i>Buxus sempervirens</i>	
Broom	<i>Cytisus</i> spp. <i>Genista pilosa</i>	Moonlight Vancouver Gold
Bugle Carpet		



COMMON NAME	BOTANICAL NAME	TOLERANT CULTIVARS
Camellia	<i>Camellia japonica</i>	Chansonette Debutante Mathotiana Supreme
	<i>Camellia sasangua</i>	
Candy Tuft	<i>Iberis</i> spp.	Snow White
Carex, Variegated	<i>Carex</i>	
Cedar, Red	<i>Juniperus virginiana</i>	
Celosia	<i>Celosia</i> spp.	
Centaurea	<i>Centaurea montana</i>	Scarlet Plumosa
Cockscomb, Plumosa	<i>Celosia cristata</i>	Red Kewpie
Coleus	<i>Coleus blumei</i>	
Columbine	<i>Agui legre</i> spp.	
Copper leaf	<i>Acalypha wilkensiana</i>	
Coreopsis	<i>Coreopsis</i> spp.	Moonbeam
Corn Flower	<i>Centaurea</i> spp.	
Cotoneaster	<i>Cotoneaster apiculatus</i>	
Coyotebrush	<i>Baccharis petularis</i>	
Cycads	<i>Cycads revoluta</i>	
Cypress, Bald	<i>Taxodium distichum</i>	
Cypress, Italian	<i>Cupressus sempervirens</i>	Glauca
Cypress, Japanese False	<i>Chamaecyparis obtusa</i>	Gracilis
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	
Daffodil	<i>Narcissus</i> spp.	King Alfred
Daylily	<i>Hemerocallis</i> spp.	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow
Dianthus (Sweet William)	<i>Dianthus</i> spp.	
Delphinium	<i>Delphinium</i> spp.	Magic fountain
Dogwood	<i>Cornus florida</i>	
Dogwood, American	<i>Cornus sericea</i>	Flavarimaea
Douglas Fir	<i>Pseudotsuga menziesii</i>	
Dusty Miller	<i>Senecio cineraria</i>	
Elm, Drake	<i>Ulmus parvifolia</i>	
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>	
Fern (various)	<i>Asparagus</i> spp.	
Fescue	<i>Festuca glauca</i>	
Fetterbush	<i>Leucothoe fontana</i>	Rainbow
Ficus	<i>Ficus retusa</i>	Nitidia
Fir Fraser	<i>Abies fraseri</i>	
Forsythia	<i>Forsythia X intermedia</i>	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowmark Weeping
	<i>Spring Glory</i>	
Fountain Grass	<i>Pennisetum setaleum</i>	
Fuchsia	<i>Fuchsia</i> spp.	
Galium	<i>Galium odoratum</i>	
Gardenia	<i>Gardenia jasminoides</i>	Mystery Radicans
Geranium	<i>Pelargonium X hortorum</i>	
Gum	<i>Eucalyptus citriodora</i>	
Hawthorn	<i>Crataegus</i> spp.	Cockspur White Crimson Cloud Enchantress Jack Evans Washington White



COMMON NAME	BOTANICAL NAME	TOLERANT CULTIVARS
Leucothoe	<i>Leucothoe fontanesiana</i>	
Ligustrum, Japanese	<i>Ligustrum japonicum</i>	
Lily, African	<i>Agapanthus africanus</i>	Albus Peter Pan
Lily, African Blue		
Lily of the Valley	<i>Pieris japonica</i>	Mt. Fire
Lily-of-the-Valley	<i>Lilium muscari</i>	Evergreen Giant Lilac Beauty Majestic Monroe White Vanegata
Lilac, Green	<i>Lilium 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>	
Margold	<i>Tagetes patula</i>	Honeycomb Vanegata Wheeler's Dwarf
Mock Orange*	<i>Philadelphus</i> spp.	Golden Snowflake Double White
Mondo Grass	<i>Ophiopogon japonicus</i>	
Moss Rose	<i>Portulaca grandiflora</i>	Sunnyside
Myrtle, Crape	<i>Lagerstroemia indica</i>	Faurei Langer Muskogee Standard Pink
Myrtle, Wax	<i>Myrica cerifera</i>	
Nadina	<i>Nadina domestica</i>	Compacta Nana
Narcissus	<i>Narcissus</i> spp.	
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>	
Oleander	<i>Nerium oleander</i>	Hardy Red Petite Pink Sister Agnes
Oreospermum	<i>Osteospermum fruticosum</i>	Wirrigig
Pachysandra	<i>Pachysandra terminalis</i>	
Palm, Bangalow		
Pampas Grass	<i>Cortadaria selloana</i>	
Pansy	<i>Viola x wittrockiana</i>	
Paper Flower	<i>Bougainvillea glabra</i>	Barbara Karst
Peach*	<i>Prunus persica</i>	
Periwinkle, Dwarf	<i>Vinca minor</i>	
Petunia	<i>Petunia X hybrida</i>	Picoti
Photinia, Red Tip	<i>Photinia X fraseri</i>	
Pieris	<i>Pieris japonica</i>	
Pine, Australian	<i>Pinus nigra</i> <i>Pinus Taiwanensis</i>	
Pine, Japanese Black	<i>Pinus thunbergiana</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 elliotii</i>	
Pine, Swiss Mt.	<i>Pinus mugo</i>	
Pine, Virginia	<i>Pinus virginiana</i>	
Pine, White	<i>Pinus strobus</i>	
Pineapple, Guava	<i>Fejoa fellowaiiana</i>	
Pittosporum, Japan		
Potentilla	<i>Potentilla nepalensis</i> <i>Potentilla fruticosa</i>	Abbotswood

COMMON NAME	BOTANICAL NAME	TOLERANT CULTIVARS
Privet	<i>Ligustrum japonicum</i>	Golden Vicary Regal Texanum Wax Yellow Tipped
Privet, Glossy	<i>Ligustrum lucidum</i>	
Pyracantha	<i>Pyracantha koidzumii</i>	Gnome Lalandei Victory
Queen Palm	<i>Arecastrum rammanzoffianum</i>	
Quince, Japanese *		
Rhododendron	<i>Rhododendron</i> spp.	Album Cunningham White Fashion Hardy PJM Purple Gem Silvery Pink
Rhododendron, Carolina	<i>Rhododendron carolinianum</i>	
Rhododendron, Catawba	<i>Rhododendron catawbiense</i>	
Ribbon Grass	<i>Phalaris arundinacea</i>	
Rocagress	<i>Arabis</i> spp.	Snowcap
Rose Max (Rosebay)	<i>Rhododendron maximum</i>	
Rose	<i>Rosa banksiaae</i>	Luta
Rosemary *	<i>Rosmarinus officinalis</i>	
Rosemary, Bog	<i>Andromeda polifolia</i>	Nana
Salva	<i>Salvia farinacea</i>	Rhea
Sedum	<i>Sedum spurium</i>	Dragon Blood Red Red Carpet Yellow
Shrimpplagon	<i>Anthurium</i> spp.	
Sourwood	<i>Oxydendrum arboreum</i>	
Soraea	<i>Astilbe X arendsi</i>	Fanall
Spiraea	<i>Spiraea</i> spp.	Anthony Waterer Red Doichica Froebeli Pink Goldenflame Red Snowmound White Van Houtte White
Spiraea, Garland	<i>Spiraea</i> spp.	
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>	Conica
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</i> spp.	Apeldoorn
Turned Hairgrass	<i>Deschampsia caespitosa</i>	
Verbena, Shrub	<i>Lantana sellowiana</i>	
Vervain	<i>Verbena</i> spp.	St. Paul
Viburnum	<i>Viburnum</i> spp.	American Cranberry Bush Arrowood Common Snowball European Cranberry Bush Linden Mohican Wright
Vinca (Periwinkle)	<i>Vinca minor</i>	
Windmill Palm	<i>Trachycarpus fortunei</i>	
Xylosma	<i>Xylosma congestum</i>	
Yarrow	<i>Achillea</i> spp.	
Yucca	<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 PLANTS.

**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. Store this product above 32°F.

**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** - Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**SPILL** - In case of spill, observe all protective and safety precautions when cleaning up spills. Dispose of material according to "Product Disposal" directions listed above.

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