

Mr. James D. Davis  
 Rohm and Haas Company  
 100 Independence Mall West  
 Philadelphia, PA 19106-2399

MAY 29 1997

Dear Mr. Davis:

Subject: Dimension® Turf Herbicide  
 EPA Registration No. 707-245  
 Application and Letter Dated August 15, 1996 and  
 Resubmissions with Your Letters Dated: October 2,  
 1996 and May 15, 1997, Request To Amend Labeling  
 To Allow Use on Landscape Ornamentals at the Maximum  
 Dosimetry as Allow for Use on Turf

The proposed labeling submitted with your May 15, 1997  
 letter has been reviewed and found acceptable for registration  
 under the Federal Insecticide, Fungicide and Rodenticide Act  
 (FIFRA), as amended, provided that you revise the labeling  
 as indicated by the following comments:

1. Under the section "Personal Protective Equipment (PPE)"  
 Section delete the extra word "are" in the first line.
2. Under the section "Control of Other Grass and Broadleaf  
 weeds", "Tank Mixtures", reference to "other pesticides"  
 must be deleted or the product must be named. As  
 directions for use of MSMA and Acclaim in tank mixtures  
 are given below you may wish to name them here. In  
 Table 2 Recommended Use Rates in Tank Mixures for  
 Postemergence Control of Crabgrass, add appropriate  
 foot notes to instruct the using public as to when  
 to use the range of dosages. At least tell the user  
 when to use the high and the low doses listed.  
 In the paragraph following Table 2, first line,  
 delete the word "before" and substitute the word  
 "when"
3. Correct the open spaces in the paragraphs (1 and 3)  
 that follow Table 3, on page 6 of the proposed labeling.
4. Under the section "Application Equipment and Instructions",  
 second paragraph, last line, delete the phrase: "if at  
 all possible".

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5. On page 7, revise the third sentence in the second paragraph that reads: "Until familiar with the performance of this product ....", to read: "Under your growing conditions a limited area involving only a few plants should be treated for tolerance evaluation prior to large-scale applications."
6. The broad claim for tank mixing "with other preemergence and postemergence herbicides registered for "this use", will provide broader spectrum weed control.", must be revised to name those pesticide products that may be tank mixed with the subject product. Products named must when added to make a tank mixture be compatible and result in a mixture that would be appropriate for the weed species needed to be controlled by the using public. The "Precaution", "Always read and follow all individual manufacturer's labels when tank mixing" must be deleted.
7. On page 7, under the section "Directions for Landscape Ornamentals" in second paragraph delete the sentence that reads: "The user should always exercise reasonable judgement and caution with this product." Also, delete that claim under the section "Tolerant Ornamentals"
8. Under "Use Rates" section on page 7, the claim for "no more than 4.5 fl. oz. of product/1000 sq. ft (6 qts/A) per year" must be accompanied by directions for applying subsequent applications.
9. Revise the claim under "Precautions" that reads: "Do not apply to plants that....." to read: "Do not apply to soil around ornamental plants.....".
10. On page 7, under the "Tolerant Ornamentals" section revise the first sentence to read: "When applied as directed under the conditions described on this label, ornamentals listed below have shown tolerance in field trials."; and add a statement that reads: "Follow directions given above to determine plant tolerance under your growing conditions prior to large scale use."

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11. Submit one (1) copy of your final printed labeling before your release the product for shipment, under the subject amended labeling.

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

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

Sincerely yours,

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

Enclosure

E.Wilson:Diskette Dithiopyr: 05-29-93

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# DIMENSION®

## TURF and ORNAMENTAL HERBICIDE



Dimension is a selective herbicide that provides control of listed annual grasses and broadleaf weeds in established lawns and ornamental turfs, including golf course fairways, roughs, tee boxes, and putting greens.

NOT FOR USE OR SALE IN NEW YORK STATE EXCEPT AS ALLOWED UNDER SPECIAL LOCAL NEED REGISTRATION NUMBER EPA SLN NO. NY-950001.

### ACTIVE INGREDIENT

\*Dithiopyr, 3,5-pyridinedicarbothioic acid, 2-(difluoromethyl)-  
4-(2-methylpropyl)-6-(trifluoromethyl)-S,S-dimethyl ester-----12.7%

INERT INGREDIENTS-----87.3%  
100.0%

Contains petroleum distillates

\*Contains 120 grams per litre or 1 pound per U.S. gallon of the active ingredient.

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

EPA REG NO. 707-245

### REFORMULATION OR REPACKAGING IS PROHIBITED

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

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

**MAY 29 1997**

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

**707-245**

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES-** Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**IF ON SKIN-** Immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

**IF SWALLOWED-** DO NOT induce vomiting. Give large quantities of water. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**IF INHALED-** Remove individual to fresh air. Seek medical attention if breathing difficulty develops.

### PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.

CAUSES SKIN IRRITATION.

HARMFUL IF SWALLOWED.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist.

Wash thoroughly with soap and water after handling.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

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

- Coveralls over short-sleeved shirt and short pants
- Socks
- Chemical resistant footwear
- Protective eyewear
- Chemical-resistant gloves such as Barrier Lamine or Viton ≥14 mils

Mixers and Loaders must wear:

- Coveralls over short-sleeved shirt and short pants
- Socks
- Chemical resistant footwear
- Protective eyewear
- Chemical-resistant gloves such as Barrier Lamine or Viton ≥14 mils
- Chemical-resistant apron

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(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Net Contents 2.5 Gallons (9.46 Liters)

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#### 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.

This product is not recommended for application by homeowners.

#### 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 early entry to 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 over short-sleeved shirt and short pants
- Socks
- Chemical resistant footwear
- Protective eyewear
- Chemical-resistant gloves such as Barrier Laminate or Viton  $\geq 14$  mils

#### 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.

#### 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 to avoid crystallization. If crystals form or product freezes, move product to area with ambient temperature above 32°F and shake well until crystals have dissolved.

**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.

**EMPTY CONTAINER DISPOSAL-** Do not reuse emptied container. Observe all label safeguards until container is triple rinsed. Emptied container retains vapor and product residue. Triple rinse container, then puncture and dispose of 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.

#### 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, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL 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 TURF USE

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

**Not for use in Commercial Sod Production unless otherwise directed by registered supplemental labeling.**

#### 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.

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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*	<i>Agrostis palustris</i>
Bluegrass, Kentucky	<i>Poa pratensis</i>
Fescue, Fine**	<i>Festuca rubra</i>
Fescue, Tall	<i>Festuca arundinacea</i>
Ryegrass, Perennial	<i>Lolium perenne</i>

#### Warm-Season Grasses

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

\* 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', 'Koker', 'Majenta', 'Mary', 'Pennlawn', 'Tamara', 'Tatjana', 'Waldorf', and 'Waldina'. Not all varieties of fine fescue have been tested.

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

\*\*\*\* 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.

#### Reseeding, Overseeding, or Sprigging

Reseeding, overseeding, or sprigging of treated areas within 3 months after a single application of this product, or 4 months after a split application program totaling more than 1.5 fl oz/1000 sq ft (2 qts/a), 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.

#### 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 four weeks or less before the transition period from overseeded turfgrass back to established turfgrass.

Avoid application of this product to golf course putting greens that are under stress. High temperatures may cause stress to greens increasing the risk of turfgrass injury.

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

DO NOT apply this product to Colonial bentgrass greens. Use of this product on 'Tifgreen' (328) hybrid bermudagrass greens may result in undesirable turfgrass injury.

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 below) spaced 6-8 weeks apart.

DO NOT tank-mix this product with other products (other than marking dyes or foams) for application to greens. Use of this product in combination programs with turf plant growth regulator compounds may result in undesirable turfgrass injury.

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).

#### Other Use Precautions

Early postemergence applications of this product alone 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.

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

## APPLICATION DIRECTIONS

### Control of Crabgrass

#### Preemergence and Early Postemergence Control

This product provides "preemergence" control of crabgrass (including the large, smooth, and southern species) when applied prior to the emergence of crabgrass from the ground in established lawns and ornamental turfs.

It can also provide "early postemergence" control of crabgrass 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 post-emergence crabgrass control will be obtained only when this product is applied prior to the tillering of crabgrass, which generally corresponds to the time when you can 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 2-8 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 1.5 fl oz/1000 sq ft (2 qts/a) per application, and no more than 4.5 fl oz/1000 sq ft (6 qts/a) 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 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 3-5 months of preemergence crabgrass control. This program will also provide early postemergence control of crabgrass up to the 3-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 4-6 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., homeowner 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 4-6 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 5-10 weeks apart. Such applications may provide improved weed control.

**Table 1:** Recommended Single Application Use Rates\*  
(fl oz/1000 sq ft.; qts/a)

USES	PROGRAM 1 Preemergence (high cut turf) & Early Postemergence up to 3-leaf (high cut turf)	PROGRAM 2 Preemergence (low cut turf) & Early Postemergence up to 1 tiller (high cut turf)	PROGRAM 3 Preemergence (low cut turf) & Early Postemergence up to 1 tiller (low cut turf)
REGION			
North	0.750 1.0	1.125 1.5	1.500 2.0
Transition	1.125 1.5	1.500 2.0	1.875** 2.5**
South	1.500 2.0	1.875** 2.5**	2.250** 3.0**
Coastal South	1.875** 2.5**	2.250** 3.0**	2.625** 3.5**
West	0.750-1.125 1.0-1.5	1.125-1.500 1.5-2.0	1.125-1.875** 1.5-2.5**

\*DO NOT apply more than 1.5 fl oz/1000 sq ft (2 qts/a) per application, and no more than 4.5 fl oz/1000 sq ft (6 qts/a) per year. The addition of a nonionic surfactant at 0.5 percent by volume or 2 qts per 100 gals of spray solution may improve early postemergence control. Always read and follow the surfactant manufacturer's label recommendations. 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, GA, LA, MS, NC, NM, OK, SC, TN, & TX.
Coastal South:	HI, FL, & southern coastal areas of AL, GA, LA, MS, NC, SC, & TX.
West:	AZ, CA, & NV. In this climatically diverse region, use the higher rates in local areas with longer crabgrass seasons.

\*\*Preemergence applications must be applied as a split application when the rate is greater than 1.5 fl oz/1000 sq ft (2 qts/a). Early postemergence applications are limited to 1.5 fl oz/1000.

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sq ft (2 qts/a) per application.

#### 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 should be followed by an appropriate spring application to provide season-long 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	smutgrass
bluegrass (annual)	lespedeza (common)
crowfootgrass	oxalis (buttercup, creeping &
foxtail (yellow & green)*	yellow woodsorrel)
goosegrass	purslane (common)
kikuyugrass	speedwell (corn)
ryegrass (annual & perennial)	spurge (prostrate & spotted)

\*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)	geranium (Carolina)
bittercrass	parsley-piert
chickweed	pineappleweed
henbit	shepherdspurse

Always consult local use guides for proper application timing, as seasonal definitions will differ somewhat by region.

#### 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 other pesticides. When applied according to label directions, a tank mixture of this product and an EPA-registered pesticide will provide control of susceptible pests listed on the respective labels for the two products. A compatibility test (see the "Compatibility Test" section below) is suggested before tank-mixing this product with fluid fertilizers and/or other pesticides.

#### Tank Mixtures for Postemergence Control of Crabgrass

Application of this product alone will only provide early postemergence control of crabgrass when treated prior to reaching the tillering stage of growth. For postemergence control of tillered crabgrass up to 3 tillers, this product should be applied in combination with either MSMA or Acclaim™. Refer to Table 2 for postemergence use rates with these tank mixtures.

**Table 2:** Recommended Use Rates in Tank Mixtures for Postemergence Control of Crabgrass\*

REGION	MIXTURE	DIMENSION + MSMA fl oz/ 1000 sq ft, qts/a	DIMENSION + ACCLAIM fl oz/ 1000 sq ft, fl oz/ 1000 sq ft
		lbs ai/a	
North		0.750-1.125 + 0.5-1.0 1.0 -1.5	0.750-1.125 + 0.15-0.35 1.0 -1.5
Transition		0.750-1.125 + 1.0-1.5 1.0 -1.5	0.750-1.125 + 0.15-0.35 1.0 -1.5
South		1.125-1.500 + 1.0-2.0 1.5 -2.0	1.125-1.500 + 0.28-0.35 1.5 -2.0
Coastal South		1.125-1.500 + 1.5-2.0 1.5 -2.0	1.125-1.500 + 0.28-0.35 1.5 -2.0
West		0.750-1.500 + 1.0-2.0 1.0 -2.0	0.750-1.500 + 0.28-0.35 1.0 -2.0

\*Region definitions are the same as those listed in Table 1.

™Acclaim is a registered trademark of AgriEvo USA Company.

Observe all limitations, precautionary statements, and use restrictions on labels for MSMA or Acclaim before using these tank mixtures. Refer to specific turfgrass species for safety information for these products. The addition of a nonionic surfactant at 0.5 percent by volume or 2 qts per 100 gals of spray solution may improve control. Always read and follow the surfactant manufacturer's label recommendations.

#### Compatibility Test

Before mixing this product with fluid fertilizers and/or other pesticides, it is advisable to test compatibility by mixing all the components in a small jar in proportionate quantities.

**Table 3:** Compatibility Test Mixing Instructions



IF		Amount of Pesticide added to Spray Carrier (assuming volume is 25 GPA) ADD:	
Pesticide Formulation	Rate per Acre	Level Teaspoons per Pint Jar	of Carrier Solution
Dry	1 lb	1-1/2	
Liquid	1 qt	1	

This compatibility test is designed for 25 gallons of spray solution per acre. The table above gives general guidelines for use rate ratios of pesticides to be tank-mixed with this product. Determine the amount of pesticide to tank-mix by referring to the pesticide label(s). Then, calculate the amount of pesticide to add to jar based on use rate ratios in table. For a use rate of 1 pound per acre of dry pesticide add 1-1/2 teaspoons to the jar, and for a use rate of 1 quart per acre of liquid pesticide, add

1 teaspoon to the jar. This product should be added based on use rate ratios for liquid pesticides (for use rate of 1 quart per acre add 1 teaspoon to the jar). For changes in spray volume or herbicide rate, make appropriate changes in the ingredients for the test. Shake well after mixing.

If pesticide(s) does not form crystals, flakes, sludge, gels, oily films or layers, then the tested components are compatible. Incompatibility in any of the above described forms will usually occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Repeat the above compatibility test with a suitable compatibility agent (one-half teaspoon per pint jar is equivalent to 2 pints per 100 gallons of spray solution).

## MIXING INSTRUCTIONS

### Dimension Along with Water as the Carrier:

Fill the spray tank to about three-fourths of the desired volume with water. Add the recommended amount of this product to the tank. 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 Along 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. See the "Compatibility Test" section of this label. Then follow the mixing procedure listed below for tank mixtures.

### Tank Mixtures:

First, determine the compatibility of this product and the desired tank mixture partner product(s) in the appropriate carrier (water or fluid fertilizer) by mixing small proportional quantities in advance. See the "Compatibility Test" section of this label. Then adhere to the following mixing procedure:

1. Place a 20 to 35 mesh screen or wetting basket over the filling port.
2. Fill the 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.
5. If a flowable pesticide formulation is used, premix with one part water, and add SLOWLY to tank.
4. If wettable powder or dry flowable pesticide formulation is used, make a slurry with the water, and add it SLOWLY to the tank.
6. Add this product or emulsifiable concentrate pesticide formulations to the tank.
7. Add water soluble liquid pesticide formulations followed by surfactants, marker dyes or foams, or drift control additives while continuing the filling process.
8. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source.
9. 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.

## APPLICATION EQUIPMENT AND INSTRUCTIONS

Apply this product through conventional liquid application equipment in a sufficient amount of water or fluid fertilizer solution to provide a uniform spray distribution. DO NOT apply this product through liquid application equipment that uses cluster spray nozzles due to variability in application use rates and spray patterns. Calibrate application equipment prior to usage. Avoid streaking, skips, or overlaps during application. The use of marker dyes or foams aid more accurate applications. DO NOT apply this product through any type of irrigation system.

Dimension Turf Herbicide contains a naphtha solvent. Under unusual circumstances, this solvent may weaken rubber or plastic components of mixing/spraying equipment (e.g., hoses). To reduce the potential for such damage (1) review and heed the equipment manufacturer's instructions for compatibility with naphtha solvents, (2) use typical dilutions (e.g., 1 gal of Dimension in at least 50 gal of total spray solution), and (3) store spray solution in equipment for no more than three days if at all possible.

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## USE DIRECTIONS FOR LANDSCAPE ORNAMENTALS

Dimension Turf Herbicide provides preemergence control of listed annual grass and broadleaf weeds in landscape ornamentals. 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 herbicide. It is impossible, however, to evaluate tolerance to this product on all ornamental plant species or varieties or under all possible growing conditions. Until familiar with the performance of this product under user growing conditions, a limited number of plants should be treated for tolerance evaluations, prior to initiating large-scale applications. The user should always exercise reasonable judgment and caution with this product.

**NOTE:** This product is not recommended for use as an over-the-top broadcast spray in landscape ornamentals. Foliage that receive 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 Turf Herbicide with a calibrated sprayer which will assure accurate, even, spray distribution. In general, Dimension herbicide should be thoroughly mixed with clean water at 1.0 to 1.5 fluid ounces of product per 1000 square feet per application and applied at 20 to 40 psi in a minimum of one gallon of water per 1000 square feet.

This product may be applied as a single application or as a split application prior to weed seed germination.

Refer to the following table for product recommendations when treating a small area.

**DO NOT** apply more than 1.5 fl. oz. of product/1000 sq. ft.(2 qts./A) per application and no more than 4.5 fl. oz. of product/1000 sq. ft(6 qts./A) per year.

Quarts Product/Acre	Fluid Ounces DIMENSION/1000 Sq. Ft.	Fluid Ounces DIMENSION /100 Sq. Ft.	Milliliters Product/100 Sq. Ft.
2	1.5	0.15	4.4

## APPLICATION TIMING AND RECOMMENDATIONS

Apply Dimension Turf 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 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, 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.

In addition to the weeds controlled by Dimension Turf Herbicide alone, tank mixes with other preemergence and postemergence herbicides registered for this use, will provide broader spectrum weed control.

### 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 to 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 to 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 injury foliage of non-target plants.
- Do not apply this product on grasses grown for seed.
- Do not graze livestock or feed forage cut from areas treated with this product.
- Always read and follow all individual manufacturer's labels when tank mixing.

### TOLERANT ORNAMENTALS

When applied as directed under the conditions described, this product has shown acceptable tolerance on the following ornamental species. However, this product has not been tested on all cultivars of each species or under all possible growing conditions. Until familiar with the performance of this product under user growing conditions, a limited number of plants should be treated for tolerance evaluations, prior to initiating large-scale applications. The user should always exercise reasonable judgment and caution when using this product.

Common Name	Botanical Name	Tolerant Cultivars
Abelia, Dwarf	<i>Abelia X grandiflora</i>	Nana
Ajuga	<i>Ajuga reptans</i> <i>Ajunga 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 spp.</i>	Brilliant Buccaneer

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		Carror Chimes (Belgian) Exbury Fashion Hardijzer Beauty Hershey Red Higasa Hinocrimson Holland (Hybrid) Marion Lee Northern Lights Orange Cup Orchid Lights Snow Southern Charm
Azalea, Flame	<i>Rhododendron calendulaceum</i>	
Azalea, Kirishima		
Bamboo, Heavenly		
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 spp.</i>	Bluecrop Blue Jay Jersey North Blue Northland
Bottlebrush	<i>Callistemon citrinus</i>	
Boxwood, Japanese		Japonica
Boxwood, Weller	<i>Buxus sempervirens</i>	
Broom	<i>Cytisus spp.</i>	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 spp.</i>	King Alfred
Daylily	<i>Hemerocallis spp.</i>	Aztec Gold Bright Yellow (Hybrid) Single Gold (Evergreen) Wilson's Yellow
Dogwood	<i>Cornus florida</i>	
Dogwood, American	<i>Cornus sericea</i>	Flavimarina
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>	
Fescue	<i>Festuca glauca</i>	

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Fetterbush	<i>Leucothoe fontiana</i>	Rainbow
Ficus	<i>Ficus reusa</i>	Nitidia
Forsythia	<i>Forsythia X intermedia</i>	Arnold Dwarf Bronxensis Dwarf Lynwood Gold Meadowlark Weeping
	<i>Spring Glory</i>	
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 Burfodii China Girl Compacta Forsteri Hellenic Japanese Northern Beauty Needlepoint Nellie R. Stevens Savannah
	<i>Ilex X attenuata</i>	
Holly, Chinese	<i>Ilex cornuta</i>	
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>	Albo 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 Thornedale
Jasmine, Asian	<i>Trachelopermum 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 Fruitlandi Green Gold Tip Hetzi Hughes Manhattan Blue Parsoni Pfitzeriana Plumosa Prince of Wales Procumbens Dwarf San Jose Sargent Blue Sargent Green Scandia Scopulorum Moonglow

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		Scopulorum Skyrocket Spartan
	<i>Juniperus chinensis</i>	Tamariscifolia
	<i>Juniperus sabina</i>	Weberi Youngstown Yukon Belle
King Palm	<i>Archontophoenix cunninghamiana</i>	
Laurel, Australian	<i>Pittosporum tobira</i>	
Laurel, Mountain	<i>Kalmia latifolia</i>	
Leucothoe	<i>Leucothoe fontanesiana</i>	
Lily, Africian	<i>Agapanthus africanus</i>	Albus Peter Pan
Lily, Africian Blue		
Lily of the Valley	<i>Pieris japonica</i>	Mt. 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
Mopndo Grass	<i>Ophiopogon japonicus</i>	
Moss Rose	<i>Portulaca grandiflora</i>	Sunnyside
Myrtle, Crape	<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>	
Oteospermum	<i>Osteospermum fruticosum</i>	Wirligig
Palm, Bangalow		
Pampas Grass	<i>Cortadaria selloana</i>	
Paper Flower	<i>Bougainvillea glabra</i>	Barbara Karst
Pachysandra	<i>Pachysandra terminalis</i>	
Peach*	<i>Prunus persica</i>	
Periwinkle, Dwarf	<i>Vinca minor</i>	
Petunia	<i>Penunia X hybrida</i>	Picoti
Photinia, Red Tip	<i>Photinia X fraseri</i>	
Pieris	<i>Pieris japonica</i>	
Pine, Australian	<i>Pinus nigra</i>	
Pine, Japanese Black	<i>Pinus thumbergiana</i>	
Pine, Loblolly	<i>Pinus teada</i>	
Pine, Longleaf	<i>Pinus palustris</i>	
Pine, Mugho	<i>Pinus mugho</i>	
Pine, Scotch	<i>Pinus sylvestris</i>	
Pine, Slash	<i>Pinus elliotii</i>	
Pine, Swiss Mt.	<i>Pinus mugo</i>	
Pine, Virginia	<i>Pinus virginiana</i>	
Pine, White	<i>Pinus strobus</i>	
Pineapple, Guava	<i>Feijoa fellowaiana</i>	
Pittosporum, Japan		
Potentilla	<i>Potentill fruticosa</i>	Abbotswood
Privet	<i>Ligustrum japonicum</i>	Golden Vicary Regal

		Texanum Yellow Tipped Wax
Privet, Glossy	<i>Ligustrum lucidum</i>	
Pyracantha	<i>Pyracantha koidzumii</i>	Gnome Lalandei Victory
Queen Palm	<i>Arecastrum 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>Rosmarinus officinalis</i>	
Rosemary, Bog	<i>Andromeda polifolia</i>	Nana
Salvia	<i>Salvia farinacea</i>	Rhea
Sedum	<i>Sedum spurium</i>	Dragon Blood Red Red Carpet Yellow
Spiraea	<i>Astilbe X arendsii</i>	Fanall
Spiraea	<i>Spiraea spp.</i>	Anthony Waterer Red Dolchica Froebeli Pink Goldenflame Red Snowmound White Van Houtte White
Spiraea, Garland	<i>Spiraea spp.</i>	
Spruce, Black Hills	<i>Picea glauca</i>	
Spruce, Colorado Blue	<i>Picea pungens</i>	
Spruce, Norway	<i>Picea abies</i>	
Spruce, White	<i>Picea glauca</i>	Conica
Sourwood	<i>Oxydendrum arboreum</i>	
Sweetflag, Grassyy-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
Verbana, 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

Used as directed, Dimension Turf 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  
    *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 verdi*  
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 saviulare*  
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  
    *Alchemilla arvensis*  
purslane, common  
    *Portulaca oleracea*  
rocket, London  
    *Sisymbrium irio*  
shepherdspurse  
    *Capsella bursa-pastoris*  
speedwell, corn  
    *Veronica arvensis*  
spurge, garden  
    *Euphorbia hirta*  
spurge, prostrate  
    *Euphorbia humistrata*  
spurge, spotted  
    *Euphorbia maculata*  
woodsorrel, creeping  
    *Oxalis corniculata*  
woodsorrel, yellow  
    *Oxalis stricta*

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