

66222-218

12-13-2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Christie Hitchcock
Regulatory Specialist
Makhteshim-Agan of North America, Inc.
4515 Falls of Neuse Road
Raleigh, NC 27609

DEC 13 2010

Subject: Label Amendments– Ornamental Bulbs Section; Administrative Changes

Product Name: Quali-Pro Isoxaben 75 WG

EPA Registration Number: 66222-218

Decision Number: 440508

Submission Date: September 20, 2010

The label amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided you address the following item(s):

- 1) Per the Label Review Manual, the following statement must be added to the top of the supplemental label as an additional bullet under the DIRECTIONS FOR USE header "Read the label affixed to the container for Quali-Pro Isoxaben 75 WG before applying".
- 2) NOTE: While no additional data is being requested at this time, any marketing claims made on the pesticide label must be substantiated by data maintained in your files. If data supporting marketing claims made on the product label is not available then those claims must be removed.
- 3) NOTE: Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Products shipped after 18 months from the date on this notice or the next printing of the master label whichever occurs first, must bear the new label language. If these conditions are not

SEE NEXT PAGE

Page 2 of 2

Label Amendments— Ornamental Bulbs Section; Administrative Changes

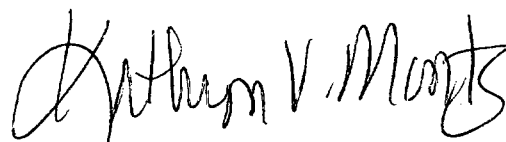
Product Name: Quali-Pro Isozaben 75 WG

EPA Registration Number: 66222-218

Decision Number: 440508

complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of this product constitutes acceptance of these conditions. As required, you must submit one copy of the final printed label before the product is released for shipment. If you have any questions please contact Michael Walsh by phone at (703) 308-2972 or via email at "walsh.michael@epa.gov".

Sincerely,



Kathryn V. Montague
Product Manager (23)
Herbicide Branch
Registration Division (7505P)

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-218	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Quali-Pro® Isoxaben 75 WG	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America Inc. 4515 Falls of Neuse Road, Suite 300 Raleigh, NC 27609 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Administrative Amendment, No Fee, 90-Day Fast Track

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 5 gals or less; greater than 5 gals		5. Location of Label Directions <input type="checkbox"/> On label	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph Paper glued Stenciled				<input type="checkbox"/> Other Self-adhesive	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Christie Hitchcock	Title Regulatory Specialist	Telephone No. (Include Area Code) 919-256-9342
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Christie Hitchcock</i>	3. Title Regulatory Specialist	
4. Typed Name Christie Hitchcock	5. Date 09-20-10	

Quali-Pro[®] Isoxaben 75 WG

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

DEC 13 2010

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

66222-218

A preemergence herbicide for control of certain broadleaf weeds in:

- Established Turfgrass
- Landscape Ornamentals
- Container Grown Ornamentals
- Field Grown Ornamentals
- Groundcovers/Perennials
- Non-Cropland
- Ornamental Bulbs
- Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards
- Christmas Tree/Conifer Plantations

Contains isoxaben, the active ingredient used in Gallery[®] 75 Dry Flowable.
Quali-Pro Isoxaben 75 WG is not manufactured or distributed by Dow AgroSciences LLC.

ACTIVE INGREDIENT:	% BY WT
Isoxaben (N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]-2,6-dimethoxybenzamide and isomers).....	75.0%
OTHER INGREDIENTS:	25.0%
TOTAL:	100.0%

Contains 0.75 lb active ingredient per pound.

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured for:
Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Rd., Suite 300
Raleigh, NC 27609

EPA Reg. No. 66222-218

EPA Est. No. XXXXXXXXXX

NET CONTENTS: ____ LBS

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes eye irritation. Harmful if inhaled. Avoid Ingestion, breathing dust or spray mist, and contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift may result in reduced germination or emergence of non-target plants adjacent to treated area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read all **DIRECTIONS FOR USE** carefully before applying.

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 regulations.

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
- 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.

Entry Restrictions for Non-WPS Uses: When this product is applied to turf and ornamental plantings in landscape settings and non-cropland areas, do not allow entry into treated areas until sprays have dried unless wearing coveralls, waterproof gloves, and shoes plus socks.

PRODUCT INFORMATION

Quali-Pro® Isoxaben 75 WG specialty herbicide is a preemergence product for control of certain broadleaf weeds in established turfgrass, landscape ornamentals, container grown ornamentals, field grown ornamentals, groundcovers/perennials, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, Christmas tree/conifer plantations and non-cropland areas. Apply Quali-Pro Isoxaben 75 WG in late summer to early fall, in early spring, or any time prior to germination of target weeds, or immediately after cultivation.

USE PRECAUTIONS AND RESTRICTIONS

Quali-Pro Isoxaben 75 WG controls weeds germinating from seed. Quali-Pro Isoxaben 75 WG does not control established weeds, or weeds growing from stolons, rhizomes, or root pieces. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings, and trash should be removed or thoroughly mixed into the soil prior to application. Soil in non-turfgrass areas should be in good condition and free of clods at the time of application. Quali-Pro Isoxaben 75 WG is stable on the soil surface for up to 21 days, but

must be incorporated by moisture to be effective. A single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation after application, is necessary to activate Quali-Pro Isoxaben 75 WG. If Quali-Pro Isoxaben 75 WG is not activated by rainfall or irrigation within 21 days after application, erratic weed control may result. In non-turfgrass areas, if weeds emerge due to lack of rainfall or irrigation, shallow cultivation to a depth of 1 to 2 inches will incorporate the herbicide and destroy existing weeds.

Treatment of Turfgrass or Ornamental Species Not Listed on the Label for Quali-Pro Isoxaben 75 WG:

Although this label contains a large number of ornamental species, it is not possible to include all of the ornamental plants that may be encountered in nursery or landscape settings. Users who wish to use Quali-Pro Isoxaben 75 WG on a plant species not listed on this label may determine the suitability for such use by treating a small area or small number of plants at a specified rate. Prior to treatment of larger areas, the treated area/plants should be observed for any sign of herbicidal injury during 30 to 60 days of typical growing conditions. **The user assumes the responsibility for any plant damage or other liability resulting from use of Quali-Pro Isoxaben 75 WG on species not specified on this label.**

Chemigation: Do not apply Quali-Pro Isoxaben 75 WG through any type of irrigation system.

Not for sale, use or distribution in the state of New York.

APPLICATION DIRECTIONS

Apply Quali-Pro Isoxaben 75 WG with a properly calibrated low-pressure herbicide sprayer that provides uniform spray distribution. Nozzle screens should be no finer than 50 mesh (50 mesh is finer than 16 mesh). In-line screens and strainers should be no finer than 16 mesh. Apply Quali-Pro Isoxaben 75 WG in 10 gallons or more of water carrier per acre. As the spray volume decreases, the importance of accurate calibration and uniform application increases. Take precautions to avoid spray drift when applying Quali-Pro Isoxaben 75 WG. Drift may result in reduced germination or emergence of non-target plants adjacent to the treated area. Maintain agitation from mixing through application. Avoid boom overlaps that will increase rates above those specified. Calibrate application equipment prior to use according to manufacturer's directions. Check calibration frequently to be sure equipment is working properly and distributing spray uniformly.

MIXING DIRECTIONS

Quali-Pro Isoxaben 75 WG - Alone

Check to be sure spray equipment is clean and not contaminated with other herbicides. Using clean water, fill the tank to 1/2 of the final volume required and start agitation. Slowly add the required quantity of Quali-Pro Isoxaben 75 WG to the spray tank, continue agitation and complete filling the tank. Maintain agitation during filling and throughout application. Agitation should be sufficient to create a rippling or rolling action on the liquid surface. Sparger pipe agitation generally provides the best agitation. In-line screens and strainers should be no finer than 16 mesh.

If spraying and agitation is stopped, Quali-Pro Isoxaben 75 WG may settle to the bottom of the spray tank. If settling occurs, material must be resuspended before continuing spray application. Clean the spray tank, lines and screens thoroughly after use.

Application Rate Conversion Table for Quali-Pro Isoxaben 75 WG

lb per acre	oz per 1000 sq ft	grams per 1000 sq ft
0.66	0.25	7.0
1.00	0.38	10.5
1.33	0.50	14.0

Repeat applications at 1 lb or more per acre of Quali-Pro Isoxaben 75 WG should not be made sooner than 60 days after a previous application of Quali-Pro Isoxaben 75 WG. Do not apply more than a total of 4 lb of Quali-Pro Isoxaben 75 WG per acre within a 12-month period.

Quali-Pro Isoxaben 75 WG - Tank Mix

Quali-Pro Isoxaben 75 WG may be applied in tank mix combination with labeled rates of other products provided: (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; (2) tank mixing with Quali-Pro Isoxaben 75 WG is not prohibited by the label of the tank mix product; and (3) the tank mix combination is compatible as determined by a "jar test" described in the **Tank Mix Compatibility Testing** section below.

Add Quali-Pro Isoxaben 75 WG to the spray tank as described above and fill the spray tank to 3/4 of the final volume required. Add other formulations in this order: (1) other dry flowables; (2) wettable powders; (3) aqueous suspensions; (4) flowables; (5) liquids; and (6) solutions and emulsifiable or liquid concentrates. Allow two to three minutes between the addition of each product and agitate continuously until the product(s) is completely

dispersed in water. Maintain agitation during filling and through application. If a buildup of materials is observed on the walls of the spray tank, wash the tank with soapy water between fillings, rinse and then continue the spraying operation. Follow label directions for each material added to the tank.

Tank Mix Compatibility Testing: Use a jar test prior to tank mixing to ensure compatibility of Quali-Pro Isoxaben 75 WG and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

WEEDS CONTROLLED OR SUPPRESSED

**Weeds controlled when applied at 0.66 lb per acre
(0.25 oz or 7 grams per 1000 sq ft):**

Common Name	Scientific Name
aster, slender	<i>Symphyotrichum divaricatum</i>
bursage, annual	<i>Ambrosia acanthicarpa</i>
burweed, lawn	<i>Soliva sessilis</i>
celery, wild	<i>Cyclosporum leptophyllum</i>
chickweed, common	<i>Stellaria media</i>
clover, white	<i>Trifolium repens</i>
cudweed, purple	<i>Gnaphalium purpureum</i>
fiddleneck, coast	<i>Amsinckia menziesii var. intermedia</i>
filaree, redstem	<i>Erodium cicutarium</i>
fleabane, blackleaved	<i>Conyza bonariensis</i>
fleabane, dwarf	<i>Conyza ramosissima</i>
groundcherry, lanceleaf	<i>Physalis angulata</i>
henbit	<i>Lamium amplexicaule</i>
horseweed	<i>Conyza canadensis</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
lambsquarters, common	<i>Chenopodium album</i>
mallow, little	<i>Malva parviflora</i>
mustard, Indian	<i>Brassica juncea</i>
mustard, wild	<i>Sinapis arvensis</i>
nightshade, black	<i>Solanum nigrum</i>
pepperweed, Virginia	<i>Lepidium virginicum</i>
pigweed	<i>Amaranthus spp.</i>
pineappleweed	<i>Matricaria discoidea</i>
plantain, slender	<i>Plantago heterophylla</i>
purslane, common	<i>Portulaca oleracea</i>
radish, wild	<i>Raphanus raphanistrum</i>
ragweed, common	<i>Ambrosia artemisiifolia</i>
rocket, London	<i>Sisymbrium irio</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>
sibara	<i>Sibara virginica</i>
smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
sowthistle, annual	<i>Sonchus oleraceus</i>
speedwell, purslane	<i>Veronica peregrina</i>
telegraphplant	<i>Heterotheca grandiflora</i>
thistle, Russian	<i>Salsola tragus</i>

**Weeds controlled when applied at 1 lb per acre
(0.38 oz. or 10.5 grams per 1000 sq ft):**

Common Name	Scientific Name
aster, heath	<i>Symphotrichum ericoides</i>
Bittercress, little	<i>Cardamine oligosperma</i>
bittercress, hairy	<i>Cardamine hirsuta</i>
brassbuttons, southern	<i>Cotula australis</i>
carrot, wild	<i>Daucus carota</i>
chamberbitter	<i>Phyllanthus urinaria</i>
chickweed, mouseear	<i>Cerastium fontanum</i> spp. <i>vulgare</i>
dandelion	<i>Taraxacum officinale</i>
eclipta	<i>Eclipta prostrata</i>
galinsoga, hairy	<i>Galinsoga quadriradiata</i>
geranium, Carolina	<i>Geranium carolinianum</i>
ladysthumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
mallow, common	<i>Malva neglecta</i>
maretail (see horseweed)	
Mayweed, chamomile	<i>Anthemis cotula</i>
morningglory, ivyleaf	<i>Ipomoea hederacea</i>
mustard, black	<i>Brassica nigra</i>
pennywort	<i>Hydrocotyle</i> spp.
plantain, bracted	<i>Plantago aristata</i>
plantain, broadleaf	<i>Plantago major</i>
plantain, buckhorn	<i>Plantago lanceolata</i>
pokeweed, common	<i>Phytolacca americana</i>
rockpurslane, redmaids	<i>Calandrinia ciliata</i>
sida, prickly	<i>Sida spinosa</i>
sorrell, red	<i>Rumex acetosella</i>
speedwell, thymeleaf	<i>Veronica serpyllifolia</i>
spurge, hyssop	<i>Chamaesyce hyssopifolia</i>
spurge, spotted	<i>Chamaesyce maculata</i>
sweetclover, yellow	<i>Melilotus officinalis</i>
tansymustard, green	<i>Descurainia pinnata</i> spp. <i>brachycarpa</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

**Weeds controlled when applied at 1.33 lb per acre
(0.5 oz or 14 grams per 1000 sq ft)**

Common Name	Scientific Name
burclover, California	<i>Medicago polymorpha</i>
dogfennel	<i>Eupatorium capillifolium</i>
eveningprimrose	<i>Oenothera</i> spp.
fescue, rattail	<i>Vulpia myuros</i>
filaree, whitestem	<i>Erodium moschatum</i>
goosefoot, nettleleaf	<i>Chenopodium murale</i>
groundsel, common	<i>Senecio vulgaris</i>
jimsonweed	<i>Datura stramonium</i>
knotweed, silversheath	<i>Polygonum argyrocoleon</i>
kochia	<i>Kochia scoparia</i>
medic, black	<i>Medicago lupulina</i>
mullein, turkey	<i>Croton setigerus</i>
nettle, burning	<i>Urtica urens</i>
oxtongue, bristly	<i>Picris echioides</i>
pimpernel, scarlet	<i>Anagallis arvensis</i>
sowthistle, spiny	<i>Sonchus asper</i>
spurge, petty	<i>Euphorbia peplus</i>
spurge, prostrate	<i>Chamaesyce humistrata</i>
sunflower	<i>Helianthus</i> spp.
swinecress	<i>Coronopus didymus</i>
thistle, musk	<i>Carduus nutans</i>
willoweed, panicle	<i>Epilobium brachycarpum</i>
woodsorrel, creeping	<i>Oxalis corniculata</i>

**Weeds partially controlled or suppressed when applied at 1.33
lb per acre
(0.5 oz or 14 grams per 1000 sq ft):**

Common Name	Scientific Name
bindweed, field	<i>Convolvulus arvensis</i>
carpetweed	<i>Mollugo verticillata</i>
dock, curly	<i>Rumex crispus</i>
mallow, Venice	<i>Hibiscus trionum</i>
milkweed, honeyvine	<i>Cynanchum laeve</i>
morningglory, tall	<i>Ipomoea purpurea</i>
pusley, Florida	<i>Richardia scabra</i>

Established Turfgrass

Use Quali-Pro Isoxaben 75 WG as a preemergence treatment for control of certain broadleaf weeds in established cool season and warm season turfgrass.

Apply Quali-Pro Isoxaben 75 WG any time prior to germination of target weeds.

Note: Refer to the **PRODUCT INFORMATION** section of this label for **Use Precautions and Restrictions** and information on mixing and application, application rates, and weeds controlled prior to using this product.

Specific Use Precautions and Restrictions for Turfgrasses:

Apply Quali-Pro Isoxaben 75 WG to newly seeded turfgrass (including overseeded turfgrass) only after seedlings are established (three leaf stage and tillering) and well rooted. Do not overseed established turfgrass sooner than 60 days following an application of Quali-Pro Isoxaben 75 WG.

- Do not apply Quali-Pro Isoxaben 75 WG to golf course putting greens.
- Do not apply Quali-Pro Isoxaben 75 WG to dichondra.
- Do not apply Quali-Pro Isoxaben 75 WG to turfgrass grown for seed.

Tank Mixing

Quali-Pro Isoxaben 75 WG may be tank mixed with Quali-Pro Dithopyr 40 WSB or Quali-Pro Prodiamine herbicides and applied as a preemergence treatment to broaden the spectrum of annual grass and broadleaf weed control. Quali-Pro Isoxaben 75 WG may also be applied as a separate treatment to supplement the effectiveness of granular pre-emergent grass control herbicides in cool and warm season turfgrass. Quali-Pro Isoxaben 75 WG may be tank mixed with postemergence broadleaf herbicides registered for use on established turfgrass to control existing broadleaf weeds to provide residual preemergence broadleaf weed control. Applied as directed, Quali-Pro Isoxaben 75 WG in tank mix with other products registered for use on turfgrass will provide control of susceptible weed species listed on the respective labels. When using Quali-Pro Isoxaben 75 WG in tank mix combinations with other products, read and follow all applicable use directions, precautions, and limitations on the respective product labels. Refer to instructions for **Quali-Pro Isoxaben 75 WG - Tank Mix** in the **MIXING DIRECTIONS** section.

Use Quali-Pro Isoxaben 75 WG on the following turfgrass species:

Established Cool Season Turfgrass

Common Name	Scientific Name
bentgrass, creeping	<i>Agrostis stolonifera</i>
bentgrass, colonial	<i>Agrostis tenuis</i>
bluegrass, Kentucky	<i>Poa pratensis</i>
fescue, chewing	<i>Festuca rubra var. commutata</i>
fescue, creeping red	<i>Festuca rubra</i>
fescue, sheeps	<i>Festuca ovina</i>
fescue, tall	<i>Festuca arundinaceae</i>
ryegrass, perennial	<i>Lolium perenne</i>

Established Warm Season Turfgrass*

Common Name	Scientific Name
bahiagrass	<i>Paspalum notatum</i>
bermudagrass	<i>Cynodon dactylon</i>
buffalograss	<i>Buchloe dactyloides</i>
centipedegrass	<i>Eremochloa ophiuroides</i>
fescue, tall (growing in warm season areas)	<i>Festuca arundinaceae</i>

St. Augustinegrass	<i>Stenotaphrum secundatum</i>
zoysiagrass	<i>Zoysia japonica</i>
zoysiagrass	<i>Zoysia tenuifolia</i>

***Sprigged Warm Season Turfgrass:** Use Quali-Pro Isoxaben 75 WG post-sprigging as a preemergence treatment for control of certain broadleaf weeds in warm season turfgrass. Apply anytime after sprigging in the following turfgrass species: bermudagrass, bahiagrass, St. Augustinegrass, centipedegrass and buffalograss. Do not apply more than 1 lb per acre of Quali-Pro Isoxaben 75 WG during the establishment phase for newly sprigged warm season turfgrass. Do not apply Quali-Pro Isoxaben 75 WG to varieties of dwarf-type bermudagrass or to any turfgrass species being sprigged on golf course tees or greens.

Ornamental Plantings and Non-Bearing Fruit and Nut Trees and Non-Bearing Vineyards

Use Quali-Pro Isoxaben 75 WG as a preemergence treatment for control of certain broadleaf weeds in landscape ornamentals, container grown ornamentals, field grown ornamentals, groundcovers/perennials, and non-bearing fruit and nut trees and non-bearing vineyards.

Apply Quali-Pro Isoxaben 75 WG any time prior to germination of target weeds, or immediately after cultivation.

Note: Refer to the **PRODUCT INFORMATION** section of this label for **Use Precautions and Restrictions** and information on mixing and application, application rates, and weeds controlled prior to using this product.

Specific Use Precautions and Restrictions for Ornamental Plantings:

To avoid possible plant injury, do not apply Quali-Pro Isoxaben 75 WG to:

- Nursery, forest, or Christmas tree: seedling beds, cutting beds, or transplant beds
- Unrooted liners or cuttings that have been planted in pots for the first time
- Pots less than six inches wide
- Groundcovers until they are established and well rooted
- Bedding plants or areas where bedding plants will be planted or transplanted within one year after application

Do not apply Quali-Pro Isoxaben 75 WG to newly transplanted ornamentals, nursery stock, ground covers, ornamental bulbs, non-bearing fruit and nut trees or non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or plant injury may occur.

Applications of Quali-Pro Isoxaben 75 WG over the top of plants with newly forming buds may cause injury. Possible plant injury may be avoided by application as a directed spray to the soil surface beneath ornamental plants.

When planting into a site treated with Quali-Pro Isoxaben 75 WG in the past 8 months, use untreated soil as fill around roots when replacing plants or injury may occur.

Note: Injury to certain ornamental plants has been observed following application of Quali-Pro Isoxaben 75 WG. To avoid plant injury do not use Quali-Pro Isoxaben 75 WG for weed control in the following ornamental plant species:

Scientific Name	Common Name
<i>Ajuga</i> spp.	Bugleweed or ajuga
<i>Brassica</i> spp.	mustard
<i>Echinacea purpurea</i>	purple coneflower
<i>Euonymus alatus</i> 'Compacta'	dwarf burning bush
<i>Euphorbia</i> spp.	spurge
<i>Hydrangea</i> spp.	hydrangea
<i>Iberis</i> spp.	candytuft
<i>Juniperus horizontalis</i> 'Prince of Wales'	Prince of Wales juniper
<i>Melaleuca quinquenervia</i>	cajeput tree
<i>Rhododendron carolinianum</i>	Carolina rhododendron
<i>Rhododendron catawbiense</i> 'Roseum elegans'	roseum elegans rhododendron
<i>Sedum</i> spp.	stonecrop
<i>Yucca recurvifolia</i>	green yucca

Tank Mixing

Quali-Pro Isoxaben 75 WG may be tank mixed with Quali-Pro Glyphosate T&O or other postemergence herbicides registered for control of existing unwanted vegetation in ornamental plantings and non-bearing fruit and nut trees and non-bearing vineyards and to provide residual preemergence broadleaf weed control. Quali-Pro Isoxaben 75 WG may also be tank mixed with Quali-Pro Dithiopyr 40 WSB and applied preemergence to provide broad spectrum control of annual grasses and broadleaf weeds in ornamental areas and non-bearing fruit and nut trees and non-bearing vineyards. Applied as directed, tank mixes of Quali-Pro Isoxaben 75 WG will provide control of susceptible weed species listed on the respective labels. When using Quali-Pro Isoxaben 75 WG in tank mix combination with other products, read and follow all applicable use directions, precautions, and limitations on the respective product labels. Refer to instructions for **Quali-Pro Isoxaben 75 WG - Tank Mix** in the **MIXING DIRECTIONS** section.

Note: Do not apply sprays containing Quali-Pro Glyphosate T&O over the top of ornamental plants. Extreme care must be exercised to prevent contact of sprays containing Quali-Pro Glyphosate T&O with foliage or stems of turfgrass, trees, shrubs, or other desirable vegetation since severe damage or death may result. If spraying Quali-Pro Glyphosate T&O in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage or stems of desirable plants.

Use Quali-Pro Isoxaben 75 WG in the culture of the following established plant species:
(**Note:** limitations on treatment methods)

Trees

Scientific Name	Common Name	Treatment Method: C = Container Grown; F = Field Grown
<i>Abies balsamea</i>	Fir, balsam	C,F
<i>Abies concolor</i>	Fir, white or concolor	F
<i>Abutilon hybridum</i>	Albus-flowering maple	C,F
	Luteus-flowering maple	C,F
	Roseus-flowering maple	C,F
	Tangerine-flowering maple	C,F
	Vesuvius red-flowering maple	F
<i>Acer ginnala</i>	Flame maple	F
<i>Acer rubrum</i>	Red maple	F
	Red sunset maple	F
<i>Acer saccharinum</i>	Silver maple	C,F
<i>Acoelorrhaphe whrightii</i>	Everglades palm	C, F
<i>Albizia julibrissin</i>	Silk tree	C,F
<i>Alsophila australis</i>	Australian tree fern	C,F
<i>Archontophoenix cunninghamiana</i>	King palm	C,F
<i>Areacastrum romanzoffianum</i>	Queen palm	C,F
<i>Araucaria heterophylla</i>	Norfolk island pine	C,F
<i>Bauhinia galpinii</i>	Red bauhinia	C,F
<i>Betula nigra</i>	River birch	C,F
<i>Betula papyrifera</i>	Paper birch	F
<i>Betula pendula</i>	European white birch	C,F
<i>Brachychiton populneus</i>	Bottle tree	C,F
<i>Bucida buceras</i>	Black olive	F
<i>Ceratonia siliqua</i>	Carob	F
<i>Cercis canadensis</i>	Redbud	C,F
<i>Chamaecyparis obtusa</i>	Filicoides-fernspray cypress	F
	Gracilis-slender Hinoki cypress	F
<i>Chamaecyparis pisifera</i>	Sawara-false cypress	F
	Squarrosa-moss cypress	F
<i>Chamaedorea cataractarum</i>	Cat palm	F
	Palm	C,F
<i>Chamaedorea costaricana</i>	Palm	C,F
<i>Chamaedorea elegans</i>	Parlor palm	C,F
<i>Chamaerops humilis</i>	Mediterranean fan palm	C,F

<i>Cornus florida</i>	Cloud nine dogwood Dogwood, flowering	C,F C,F
<i>Cornus kousa</i>	Kousa dogwood	C,F
<i>Crataegus viridis</i>	Green hawthorn	F
<i>Cryptomeria japonica</i>	Japanese cryptomeria	C,F
<i>Cupaniopsis anacardioides</i>	Carrot wood	F
<i>Cupressocyparis leylandii 'Emerald Isle'</i>	Emerald Isle leyland cypress	C,F
<i>Cupressocyparis leylandii 'Naylor's Blue'</i>	Naylor's Blue leyland cypress	C,F
<i>Cupressus ariz 'Blue Pyramid'</i>	Blue Pyramid Cypress	C,F
<i>Cupressus arizonicus or glabra</i>	Arizona cypress	F
<i>Cupressus sempervirens</i>	Italian cypress	C,F
<i>Cupressus sempervirens 'Glauca'</i>	Glauca Italian cypress	C,F
<i>Cycas revoluta</i>	Sago palm	C,F
<i>Elaeagnus angustifolia</i>	Russian olive	C,F
<i>Elaeagnus x ebbengei 'Gilt edge'</i>	Gilt edge elaeagnus	C,F
<i>Eucalyptus camaldulensis</i>	Red gum eucalyptus	F
<i>Eucalyptus cinerea</i>	Eucalyptus, mealy Silver dollar eucalyptus	F F
<i>Eucalyptus microtheca</i>	Coolibah tree	C, F
<i>Eucalyptus sideroxylon</i>	Eucalyptus, red ironbark	F
<i>Fagus sylvatica</i>	European beech	C,F
<i>Ficus benjamina</i>	Ficus Mini ficus	C,F C,F
<i>Fraxinus udhei</i>	Shamel ash	C,F
<i>Ginkgo biloba</i>	Ginkgo (Maidenhair tree)	F
<i>Gleditsia triacanthos var. inermis</i>	Thornless honey locust Shademaster honey locust	F F
<i>Heteromeles arbutiflora</i>	Toyon	F
<i>Illicium floridanum</i>	Florida anise-tree	C,F
<i>Juniperus virginiana</i>	Eastern redcedar	C,F
<i>Leptospermum scoparium</i>	New Zealand tea tree Ruby glow New Zealand tea tree	C,F F
<i>Liquidambar styraciflua</i>	Sweetgum, American	F
<i>Magnolia grandiflora</i>	Magnolia, southern	C,F
<i>Magnolia soulangeana</i>	Saucer magnolia	C,F
<i>Magnolia stellata</i>	Royal star magnolia	C,F
<i>Malus sargentii</i>	Crabapple non-bearing	C,F
<i>Morus alba</i>	White mulberry	F
<i>Musa aluminata</i>	Banana	C,F
<i>Oxydendrum arboreum</i>	Sourwood	C, F
<i>Picea abies</i>	Pendula-weeping Norway spruce Repens-spreading Norway spruce Norway spruce,	C,F C,F C,F
<i>Picea glauca</i>	White spruce	C,F
<i>Picea glauca 'Conica'</i>	Dwarf alberta spruce	F
<i>Picea pungens</i>	Colorado spruce	C,F
<i>Picea pungens 'Glauca'</i>	Colorado blue spruce	C,F
<i>Picea pungens 'Hoopsia'</i>	Hoopsi blue spruce	C,F
<i>Picea pungens 'Koster'</i>	Koster blue spruce	F
<i>Pinus aristata</i>	Bristlecone pine	F
<i>Pinus canariensis</i>	Canary Island pine	F
<i>Pinus contorta</i>	Shore pine, beach pine	F
<i>Pinus eldarica</i>	Eldarica pine	C,F
<i>Pinus leucodermis</i>	Bosnian pine	C,F
<i>Pinus mugo var. pumilio</i>	Pumilio mugo pine	C,F
<i>Pinus nigra</i>	Austrian black pine	C,F
<i>Pinus radiata</i>	Monterey pine	F
<i>Pinus strobus</i>	Eastern white pine White pine	C,F C, F
<i>Pinus sylvestris</i>	Columnar Scotch pine Scotch pine	C,F C,F

<i>Pinus thunbergii</i>	Japanese black pine	C,F
<i>Platanus occidentalis</i>	American sycamore	F
<i>Platanus racemosa</i>	California sycamore	F
<i>Podocarpus</i> spp.	Podocarpus	F
<i>Populus deltoides</i>	Cottonwood	F
<i>Prosopis chilensis</i>	Chilean mesquite	C,F
<i>Prunus yedoensis</i>	Yoshino flowering cherry	F
<i>Prunus caroliniana</i>	Carolina laurel cherry	C,F
	Bright 'n tight Carolina laurel cherry	C,F
<i>Prunus laurocerasus</i>	English laurel	C,F
<i>Quercus ilicifolia</i>	Bear oak	F
<i>Quercus palustris</i>	Pin oak	F
<i>Quercus phellos</i>	Willow oak	C,F
<i>Quercus rubra</i>	Red oak	C,F
<i>Quercus virginiana</i>	Live oak	C,F
<i>Ravenea rivularis</i>	Majesty palm	C,F
<i>Salix babylonica</i>	Babylon weeping willow	F
<i>Salix matsudana</i> "Torulosa"	Corkscrew willow	F
<i>Sequoiadendron giganteum</i>	Giant sequoia	F
<i>Sequoia sempervirens</i>	Coast redwood	C,F
<i>Swietenia mahogany</i>	Mahogany	F
<i>Syagrus romanzoffianum</i>	Queen palm	C,F
<i>Tabebuia caraiba</i>	Yellow tab	F
<i>Trachycarpus fortunei</i>	Windmill palm	C,F
<i>Tsuga canadensis</i>	Eastern hemlock	C,F
<i>Ulmus parvifolia</i>	Chinese elm	F
<i>Washingtonia robusta</i>	California fan palm	C,F
	Mexican fan palm	F
<i>Zamia furfuracea</i>	Cardboard palm	C,F

Shrubs

Scientific Name	Common Name	Treatment Method: C = Container Grown; F = Field Grown
<i>Abelia x grandiflora</i>	Edward Goucher abelia	C,F
	Glossy abelia	C,F
	Sunrise variegated abelia	C,F
<i>Acacia abyssinica</i>	Abyssinica acacia	C,F
<i>Acacia redolens</i>	Acacia, prostrate	C,F
<i>Acacia stenophylla</i>	Shoestring acacia	C,F
<i>Acalypha wilkesiana</i>	Copper leaf	C,F
<i>Acer ginnala</i>	Amur maple	C,F
<i>Acer palmatum</i>	Coral bark Japanese maple	C,F
	Dwarf Japanese maple	C,F
<i>Agave americana</i>	Century plant	F
<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	C,F
<i>Andromeda polifolia</i>	Bog rosemary	C,F
<i>Anisodonteia hypomandarum</i>	Cape mallow	C,F
<i>Arctostaphylos uva-ursi</i>	Bearberry	C,F
<i>Ardisia japonica</i>	Chirimen marlberry	C,F
<i>Armeria maritime</i> 'Bloodstone'	Bloodstone sea thrift	C,F
<i>Artemisia lactiflora</i>	White mugwort	C,F
<i>Athyrium nipponicum</i>	Japanese painted fern	C,F
<i>Aucuba japonica</i> 'Goldstrike'	Japanese laurel	
<i>Baccharis pilularis</i>	Coyotebush	F
<i>Berberis x gladwynensis</i>	William Penn barberry	C,F
<i>Berberis mentorensis</i>	Mentor barberry	C,F
<i>Berberis thunbergii</i> 'Aurea'	Golden Japanese barberry	F
<i>Berberis thunbergii</i> var. <i>atropurpurea</i> 'Crimson Pygmy'	Crimson pygmy barberry	C,F
<i>Berberis thunbergii</i> var. <i>atropurpurea</i> 'Rose Glow'	Rose glow red barberry	C,F
<i>Berberis thunbergii</i> var. <i>atropurpurea</i>	Redleaf Japanese barberry	F

<i>Berberis thunbergii</i> var. <i>atropurpurea</i> 'Cherry Bomb'	Cherry bomb barberry	C,F
<i>Bougainvillea</i> spp.	Barbara Karst California gold Pink pixie Scarlet O'Hara Temple fire Texas dawn	C,F C,F C,F C,F C,F C,F
<i>Bougainvillea</i> 'Purple Queen'	Purple Queen bougainvillea	C,F
<i>Bougainvillea</i> 'Rosenka'	Rosenka bougainvillea	C,F
<i>Buxus microphylla</i> var. <i>japonica</i> 'Green Beauty'	Green Beauty boxwood	C,F
<i>Buxus microphylla</i> var. <i>japonica</i>	Japanese littleleaf boxwood	F
<i>Buxus microphylla</i> var. <i>Koreana</i>	Korean boxwood	F
<i>Buxus sempervirens</i>	Boxwood, common	C,F
<i>Buxus</i> x 'Green velvet'	Green velvet boxwood	C,F
<i>Callistemon citrinus</i>	Lemon bottlebrush	F
<i>Callistemon citrinus</i> 'Little John'	Little John lemon bottlebrush	C,F
<i>Callistemon viminalis</i>	Weeping bottlebrush	C,F
<i>Calluna vulgaris</i>	Spring torch Scotch heather	C,F
<i>Camellia japonica</i>	Camellia	C,F
<i>Caryopteris clandonensis</i>	Blue mist bluebeard	C,F
<i>Caryopteris</i> x <i>clandonensis</i> 'Blk night'	Dark knight bluebeard	C,F
<i>Cassia artemisioides</i>	Feathery cassia	C,F
<i>Cassia, eremophila</i>	Senna	C,F
<i>Ceanothus</i> spp.	Wild lilac	F
<i>Cephalotaxus harringtonia</i> var. <i>drupacea</i>	Japanese plum yew	C,F
<i>Cerastium tomentosum</i>	Snow-in-summer	C,F
<i>Ceratostigma plumbaginoides</i>	Dwarf plumbago	C,F
<i>Ceratostigma willmottianum</i>	Chinese plumbago	C,F
<i>Chaenomeles japonica</i>	Orange flowering quince	C,F
<i>Chamaecyparis obtusa</i>	Kosteri cypress Nana-dwarf Hinoki cypress Torulosa cypress	C,F C,F C,F
<i>Chamaecyparis pisifera</i>	Baileyi-dogwood Flaviramea-dogwood Sawara-false cypress Squarrosa minima cypress Filifera-thread cypress	F F F C,F C,F
<i>Chrysalidocarpus lutescens</i>	Areca palm	F
<i>Clethra alnifolia</i>	Summersweet	C,F
<i>Cleyera japonica</i>	Japanese cleyera	C,F
<i>Colonema pulchrum</i>	Pink breath of heaven	C,F
<i>Convolvulus cneorum</i>	Bush morning glory	C,F
<i>Convolvulus mauritanicus</i>	Ground morningglory	C,F
<i>Cornus alba</i>	Sibirica-Siberian dogwood	C,F
<i>Cornus sericea</i>	Baileyi-redosier dogwood Flaviramea-yellowtwig dogwood	F F
<i>Corylus Americanus</i> 'Contorta'	Harry Lauder's walking stick	C,F
<i>Cotinus coggygria</i>	Royal purple smoke tree	C,F
<i>Cotinus dammeri</i>	Coral beauty smoke tree Eichholz smoke tree	C,F C,F
<i>Cotoneaster adpressus</i>	Praecox-early cotoneaster	C,F
<i>Cotoneaster apiculatus</i>	Cranberry cotoneaster	C,F
<i>Cotoneaster congestus</i>	Pyrenees cotoneaster	C,F
<i>Cotoneaster dammeri</i>	Bearberry cotoneaster	C,F
<i>Cotoneaster himalayan</i>	Himalayan cotoneaster	C,F
<i>Cotoneaster horizontalis</i>	Rock cotoneaster	C,F
<i>Cycas revoluta</i>	Sago palm	C,F
<i>Cyrtomium fortunei</i>	Holly fern	C,F
<i>Cytisus praecox</i>	Hollandia-warminster broom	C,F
<i>Cytisus scoparius</i>	Lena-Scotch broom	C,F

<i>Cytisus</i> spp.	Holandia-Scotch broom Allgold warminster broom Lilac time broom	F C,F C,F
<i>Dalea greggii</i>	Trailing indigo bush	C,F
<i>Daphne cneorum</i>	Rose daphne	C,F
<i>Daphne odora</i>	Fragrant daphne	C,F
<i>Deutzia crenata</i>	Nakiana-dwarf deutzia	C,F
<i>Deutzia gracilis</i>	Slender gracilis	C,F
<i>Dodonea viscosa</i>	Hopseed bush	F
<i>Enkianthus companulatus</i>	Red-veined enkianthus	C,F
<i>Elaeagnus pungens</i>	Fruitland silver berry	C,F
<i>Erica cinerea</i>	Purple bell heather	C,F
<i>Erica vagans</i>	Cornish heather	C,F
<i>Erica x darleyensa</i>	Mediterranean pink heather	C,F
<i>Escalonia</i> spp.	Escallonia	C, F
<i>Eugenia myrtifolia</i>	Teenie genie brushcherry	C,F
<i>Eugenia myrtifolia</i> 'Globulus'	Dwarf brush cherry	C,F
<i>Euonymus fortunei</i>	Canadale gold euonymus Emerald 'n gold euonymus Sunspot euonymus	C,F F C,F
<i>Euonymus japonica</i>	Silver king euonymus Chollipo euonymus Gold spot euonymus Silver princess euonymus Variegated evergreen euonymus	F C, F C,F C,F C,F
<i>Euonymus kiautschovicus</i>	Spreading euonymus	C,F
<i>Euonymus kiautschovicus</i> 'Manhattan'	Manhattan euonymus	C,F
<i>Euonymus vegetus</i>	Bigleaf wintercreeper	C,F
<i>Fatsia japonica</i>	Japanese aralia	C,F
<i>Felicia amelloides</i>	Blue marguerite	C,F
<i>Forsythia x intermedia</i>	Forsythia, border	C,F
<i>Forsythia x 'Spring glory'</i>	Spring glory forsythia	C,F
<i>Fuchsia x 'Santa Claus'</i>	Santa Claus fuchsia	C,F
<i>Gardenia jasminoides</i>	August beauty gardenia Gardenia Miniature gardenia Radican gardenia	C,F C,F C,F C,F
<i>Gaultheria procumbens</i>	Wintergreen	C,F
<i>Gaultheria shallon</i>	Sala/lemon leaf	C,F
<i>Gelsemium sempervirens</i>	Carolina jessamine	C,F
<i>Genista pilosa</i>	Woadwaxen	C,F
<i>Hamamelis virginiana</i>	Common witch hazel	C,F
<i>Hardenbergia violacea</i>	Lilac vine	C,F
<i>Hebe buxifolia</i>	Boxleaf hebe	C,F
<i>Hibiscus rosa-sinensis</i>	Ross Estey-hibiscus	C,F
<i>Hibiscus syriacus</i>	Rose of Sharon, red bird Rose of Sharon, red heart Rose of Sharon, woodbridge	C,F F C,F
<i>Ilex aquifolium</i>	Balkans English holly Gold coast English holly	F F
<i>Ilex x aquipermyi</i>	San Jose holly	C,F
<i>Ilex x attenuata</i>	Savannah holly	C,F
<i>Ilex cassine</i>	Cassine holly	C,F
<i>Ilex cornuta</i>	Burford holly Dwarf burford holly Needle point holly Chinese holly	C,F C,F C,F C,F
<i>Ilex crenata</i>	Compacta-dwarf Japanese holly Convexa holly Dwarf Chinese holly Green luster holly Helleri-Heller's Japanese holly Hetzii's Japanese holly	C,F C,F C,F C,F C,F C,F

<i>Ilex crenata</i> 'Steeds'	Steeds Japanese holly Stokesii Japanese holly	C,F C,F
<i>Ilex glabra</i>	Compacta-compact inkberry holly Nordica-inkberry holly	C,F C,F
<i>Ilex x meserveae</i>	Blue boy holly Blue girl holly China boy holly China girl holly Ebony magic holly	C,F C,F C,F C,F F
<i>Ilex x 'Nellie Stevens'</i>	Nellie R. Stevens holly	C,F
<i>Ilex opaca</i>	American holly	C,F
<i>Ilex vomitoria</i>	Nana-dwarf yaupon holly Pendula-weeping yaupon holly Yaupon holly	C,F C,F C,F
<i>Illicium annisatum</i>	Mystery gardenia	C,F
<i>Itea virginica</i>	Henry's garnet sweetspire	C,F
<i>Ixora collinea</i>	Ixora	C,F
<i>Juniperus chinensis</i> 'Gold Coast'	Gold Coast juniper	C,F
<i>Juniperus chinensis</i>	Hollywood juniper Media-old gold juniper Pfitzer juniper Pfitzerana glauca-blue juniper Pfitzerana-pfitzer juniper Sea green juniper Torulosa-hollywood juniper	C,F C,F C,F C,F C, F F C,F
<i>Juniperus conferta</i>	Emerald sea shore juniper Shore juniper	C,F C,F
<i>Juniperus davurica</i>	Parsonii juniper	C,F
<i>Juniperus horizontalis</i>	Andorra juniper Bar harbor juniper Blue chip juniper Blue rug juniper Creeping juniper Dwarf andorra juniper Huntington blue juniper Plumosa-andorra juniper Wiltonii-blue carpet juniper	C,F C,F C,F C,F C,F C,F C,F C,F C,F
<i>Juniperus procumbens</i>	Nana-dwarf Japanese Garden juniper	C, F
<i>Juniperus prostrata</i>	Prostrata juniper	C,F
<i>Juniperus sabina</i>	Broadmoor juniper Foemina-hicks juniper Savin juniper Tamariscifolia-tam juniper	C,F C,F C,F C,F
<i>Juniperus scopulorum</i>	Emerald green juniper Wichita blue juniper	F C,F
<i>Juniperus squamata</i>	Blue juniper Blue star juniper Parsonii juniper	C,F C,F C,F
<i>Kalmia latifolia</i>	Mountain laurel	C,F
<i>Lagerstroemia indica</i>	Crape myrtle	C,F
<i>Leucophyllum frutescens</i>	Texas sage	C,F
<i>Leucophyllum laevigatum</i>	Chihuahan sage	C,F
<i>Leucothoe axillaris</i>	Coast leucothoe	C,F
<i>Leucothoe fontanesiana</i>	Drooping leucothoe	C,F
<i>Ligustrum japonicum</i>	Japanese privet Wax privet Yellow tip privet	C,F C,F C,F
<i>Ligustrum lucidum</i>	Glossy privet	C,F
<i>Ligustrum ovalifolium</i>	California privet	F
<i>Ligustrum texanum</i>	Howard privet Wax leaf privet	C,F C,F
<i>Ligustrum x vicaryi</i>	Privet, Vicary golden	F
<i>Ligustrum vulgare</i> 'Lodense'	Lodense common privet	C,F
<i>Livistona chinensis</i>	Chinese fountain palm	F

<i>Lonicera fragrantissima</i>	Winter honeysuckle	C,F
<i>Lonicera periclymenum</i>	Flowering woodbine Serotina woodbine	C,F C, F
<i>Lonicera sempervirens</i>	Trumpet honeysuckle	C,F
<i>Loropetalum chinense</i>	Sizzling pink fringe flower	C,F
<i>Loropetalum chinense</i> var. <i>rubrum</i> 'Razzlebern'	Razzleberri fringe flower	C,F
<i>Mahonia aquifolium</i> 'Compacta'	Dwarf Oregon hollygrape mahonia	C,F
<i>Mahonia bealei</i>	Leather leaf mahonia	C,F
<i>Mahonia repens</i>	Creeping mahonia	C,F
<i>Mandevilla splendens</i> 'Red Riding Hood'	Red Riding Hood mandevilla	F
<i>Michelia figo</i>	Banana shrub	C,F
<i>Myrica cerifera</i>	Southern wax myrtle	C,F
<i>Myrica pensylvanica</i>	Bayberry	C,F
<i>Myoporum parvifolium</i>	Putah creek	C,F
<i>Nandina domestica</i>	Compacta-dwarf heavenly bamboo Harbour dwarf-heavenly bamboo Heavenly bamboo (nandina) Nana compacta-heavenly bamboo Nana purpurea-heavenly bamboo Woods dwarf-heavenly bamboo	C,F C,F C,F C,F C, F C,F
<i>Nerium oleander</i>	Hardy red oleander Oleander Ruby lace oleander	C,F C,F C,F
<i>Osmanthus x fortunei</i>	Fortune's osmanthus	C,F
<i>Osmathus fragrans</i>	Sweet olive osmanthus	C,F
<i>Pennisetum setaceum</i> 'Rubrum'	Purple fountain grass	C,F
<i>Phoenix roebelenii</i>	Pigmy date palm	C,F
<i>Photinia x fraseri</i>	Fraser photinia	C,F
<i>Physocarpus opulifolius</i>	Dwarf ninebark	C,F
<i>Pieris japonica</i>	Lily-of-the-valley Mountain fire lily-of-the-valley Snowdrift lily-of-the-valley Temple bells lily-of-the-valley Valley rose lily-of-the-valley Valley valentine lily-of-the-valley	C,F C,F C,F C,F C,F C,F
<i>Pieris x 'Forest Flame'</i>	Forest flame lily-of-the-valley	C,F
<i>Pinus mugo</i> var. <i>mugo</i>	Mugo pine	C,F
<i>Pittosporum tenuifolia</i> 'Golf Ball'	Golf ball pittosporum	C,F
<i>Pittosporum tobira</i>	Green pittosporum Wheeler's dwarf pittosporum	C,F C,F
<i>Plumbago auriculata</i>	Blue cape plumbago	F
<i>Plumbago capensis</i>	Plumbago	C,F
<i>Podocarpus macrophyllus</i>	Yewpine	C,F
<i>Polygala fruticosa</i>	Sweet pea shrub	C,F
<i>Polystichum polyblepharum</i>	Tassel fern	C,F
<i>Potentilla fragiformis</i>	Cinquefoil	F
<i>Potentilla fruticosa</i>	Cinquefoil Floppy disc cinquefoil Gold drop pontentilla Goldfinger potentilla Red ace potentilla Sunset potentilla Tangerine potentilla	C,F C,F F C,F C,F C,F C,F
<i>Potentilla</i> spp.	Cinquefoil	
<i>Potentilla verna</i>	Spring cinquefoil	C,F
<i>Prunus glandulosa</i>	Dwarf flowering almond	C,F
<i>Prunus laurocerasus</i> 'Otto luykens'	Otto Luykens English laurel	C,F
<i>Psidium cattleianum</i>	Strawberry guava	C,F

<i>Pyracantha fortuneana</i>	Lolndei Monrovia pyracantha Monon pyracantha Red elf hybrid pyracantha Rutgers hybrid pyracantha Santa Cruz pyracantha Victory pyracantha	C,F F F C,F C,F F
<i>Pyracantha coccinea</i> 'Lalandei'	Lalandei firethorn	C,F
<i>Raphiolepis indica</i>	Charisma-monruce raphiolepis Enchantress-monest raphiolepis Raphiolepis (India hawthorn) Springtime-Monme raphiolepis	C,F F C,F F
<i>Raphiolepis indica</i> 'Ballerina'	Ballerina Indian hawthorn	C,F
<i>Raphiolepis ovata</i>	Roundleaf raphiolepis	C,F
<i>Rhododendron calendulaceum</i>	Cannon's double azalea Flame azalea Golden flare azalea Klondike azalea	C,F F C,F C,F
<i>Rhododendron campylocarpum</i>	Butterfly rhododendron	F
<i>Rhododendron carolinianum x daurium</i>	PJM rhododendron	C,F
<i>Rhododendron catawbiense</i>	Catawba album rhododendron Catawba rhododendron Lord Roberts rhododendron Rocket rhododendron	C,F C,F C,F C,F
<i>Rhododendron caucasicum x ponticum</i>	Cunningham White rhododendron	C,F
<i>Rhododendron exbury</i>	Cannon's double azalea Golden flare azalea Klondike azalea	C,F C,F C,F
<i>Rhododendron forrestii repens</i>	Gomer Waterer rhododendron	C,F
<i>Rhododendron forrestii x griersonianum</i>	Elizabeth rhododendron	C,F
<i>Rhododendron griffithianum</i>	Jean Marie rhododendron	C,F
<i>Rhododendron hybrid</i> spp.	America rhododendron English Roseum rhododendron Nova Zembla rhododendron Scintillation rhododendron	C,F F C,F C,F
<i>Rhododendron impeditum</i>	Rhododendron	C,F
<i>Rhododendron indica</i>	Formosa azalea Waucabusa azalea	C,F C,F
<i>Rhododendron kaempferi</i>	Blue danube azalea	C,F
<i>Rhododendron kerume</i>	Coral bells azalea Hino crimson azalea Hino pink azalea Mildred azalea Snow azalea	C,F C,F C,F C,F C,F
<i>Rhododendron maximum</i>	Rhodie max (rosebay)	C,F
<i>Rhododendron mucronulatum</i>	Rhododendron	F
<i>Rhododendron obtusum</i>	Hino-crimson azalea	C,F
<i>Rhododendron ponticum</i>	Chioniodes rhododendron Daphinoides rhododendron	C,F C,F
<i>Rhododendron racemosum</i>	Dwarf scarlet wonder rhododendron Tribly rhododendron Unique rhododendron Vulcan rhododendron	C,F C,F C,F C,F
<i>Rhododendron sassthigiatim x carolinianum</i>	Ramapo rhododendron	C,F
<i>Rhododendron satuski</i>	Gumpo pink azalea Higasa azalea Reijn azalea	C, F F C,F

<i>Rhododendron</i> spp. hybrids	Carror azalea Fashion azalea Gerard Christina azalea Girard Roberta azalea Golden flare exbury azalea Helmut Vogel azalea Hershey red azalea Hot shot azalea Hume azalea Inga azalea Irene Koster azalea President Clay azalea Traditional azalea	C,F C,F F C,F F F F C,F F F C,F C,F C,F
<i>Rhus lancea</i>	African sumac	C,F
<i>Rhus typhina</i>	Staghorn sumac	C,F
<i>Rosa</i> x 'Flower carpet'	Red groundcover rose	C,F
<i>Rosa rugosa</i>	Ramanas rose	C,F
<i>Rosmarinus officinalis</i>	Rosemary	F
<i>Senecio cineraria</i>	Dusty-miller	
<i>Skimmia japonica</i>	Japanese skimmia	C,F
<i>Skimmia revesiana</i>	Reeve's skimmia	C,F
<i>Solanum rantonetii</i> 'Royal purple'	Paraguay nightshade	C,F
<i>Spiraea</i> x bumalda 'Anthony Waterer'	Anthony Waterer spiraea	C,F
<i>Spiraea</i> x cinerea "Grefsheim"	First snow spiraea	C,F
<i>Spiraea japonica</i>	Dolchia spiraea Japanese alpine spiraea Magic carpet spiraea Neon flash spiraea Shirobana spiraea	C,F C,F C,F C,F C,F
<i>Spiraea</i> x vanhouttei	Vanhoutte spirea	C,F
<i>Streptosolen jamesonii</i>	Marmalade bush	C,F
<i>Syringa rothomagensis</i>	Chinese lilac	C,F
<i>Syringa vulgaris</i>	Lilac, common	F
<i>Taxus cuspidata</i>	Japanese yew	F
<i>Tecomaria capensis</i>	Cape honeysuckle	C,F
<i>Ternstroemia gymnanthera</i>	Japanese ternstroemia	C,F
<i>Teucrium fruticans</i>	Bush germander	C,F
<i>Thevetia nerifolia</i>	Yellow oleander	C,F
<i>Thuja occidentalis</i>	Emerald arborvitae Globosa-globe arborvitae Little giant-dwarf arborvitae Nigra-dark American arborvitae Pyramidalis arborvitae Rheingold arborvitae Techny arborvitae Woodwardii arborvitae	C,F C,F C,F C,F C,F C,F F C,F
<i>Thuja orientalis</i>	Aureus nana-dwarf golden arborvitae Minima glauca-dwarf arborvitae	C, F C, F
<i>Tibouchina urvilleana</i>	Princes flower	C, F
<i>Veitchia merrilli</i>	Christmas palm	F
<i>Viburnum bodnantense</i>	Pink dawn viburnum	C, F
<i>Viburnum carlesii</i>	Koreanspice viburnum	C, F
<i>Viburnum davidii</i>	David viburnum	C, F
<i>Viburnum japonicum</i>	Japanese viburnum	F
<i>Viburnum judd</i> (V. x juddii)	Judd viburnum	C, F
<i>Viburnum lantana</i>	Wayfaringtree viburnum	F
<i>Viburnum opulus sterile</i>	Common snowball viburnum	F
<i>Viburnum plicatum</i> var. <i>tomentosum</i>	Doublefile viburnum	C, F
<i>Viburnum setigerum</i>	Tea viburnum	F
<i>Viburnum tinus</i> 'Compactum'	Spring bouquet viburnum	F
<i>Viburnum trilobum</i>	Am. Cranberry bush viburnum	C,F
<i>Viburnum trilobum</i> 'Compactum'	Dwarf Am. cranberry bush viburnum	C, F
<i>Viburnum</i> x <i>pragense</i>	Prague viburnum	C,F

<i>Weigela florida</i>	Bristol ruby weigela Java red weigela Minuet weigela	C,F C,F C,F
<i>Xylosma congestum</i>	Xylosma	F
<i>Xylosma senticosa</i>	Shiny xylosma	F
<i>Yucca filamentosa</i>	Adam's needle yucca	C,F

Groundcovers/Perennials

Scientific Name	Common Name	Treatment Method: C = Container Grown; F = Field Grown
<i>Achillea</i> spp.	Yarrow	C,F
<i>Achillea filipendulina</i>	Moonshine-fern/leaf yarrow	C,F
<i>Achillea millefolium</i>	Common yarrow	C,F
<i>Achillea millefolium</i> 'Paprika'	Paprika yarrow	C,F
<i>Achillea tomentosa</i>	Wooly yarrow	C,F
<i>Agapanthus africanus</i>	Lily of the Nile Queen Anne lily of the Nile	C,F C,F
<i>Agapanthus</i> 'Peter pan'	Lily of the Nile	C,F
<i>Ammophila breviliqulata</i>	Beechgrass	C,F
<i>Aptenia cordifolia</i>	Red apple aptenia	C,F
<i>Aquilegia</i> x 'Dragon fly'	Columbine	C,F
<i>Arctotheca calendula</i>	Cape weed	F
<i>Argyranthemum frutescens</i> "Butterfly"	Butterfly argyranthemum	C,F
<i>Asparagus densiflorus</i> 'Myers'	Pony tail fern	C,F
<i>Asparagus retrofractus</i>	-----	C,F
<i>Asparagus varieegata</i>	Tree fern	C,F
<i>Asparagus</i> var. 'Meegers'	-----	C,F
<i>Aspidistra elatior</i>	Cast iron plant	C,F
<i>Aster novae-angliae</i>	New England aster	C,F
<i>Aster novi-belgii</i>	New York aster	C, F
<i>Aster novi-belgii</i> 'Persian rose'	Persian rose dwarf aster	C,F
<i>Begonia semperlorens</i> 'Amb white'	White ambassador begonia	C,F
<i>Bergenia cordifolia</i>	Heartleaf bergenia	C,F
<i>Bidens ferulifolia</i> 'Peters gold'	Peter's gold bidens	C,F
<i>Brachycome</i> x 'New amethyst'	Swan river daisy new amethyst	C,F
<i>Callistepheus chinensis</i>	China aster	C,F
<i>Carex albula</i>	Frosty curls sedge	C,F
<i>Carex</i> spp.	Variiegated carex	C,F
<i>Carpobrotus edulis</i>	Largeleaf ice plant	F
<i>Catharanthus roseus</i>	Madagascar periwinkle	C,F
<i>Chasmanthium latifolium</i>	Northern sea oats	C,F
<i>Chrysanthemum maximum</i>	Shasta daisy	C,F
<i>Chrysanthemum</i> spp.	Chrysanthemum species	C,F
<i>Clivia miniata</i> 'French hybrid'	Kafir lily	C,F
<i>Cordylone indiyisa</i>	Blue dracaena	C,F
<i>Coreopsis verticillata</i>	Threadleaf coreopsis	C,F
<i>Coreopsis verticillata</i> 'Moonbeam'	Moonbeam coreopsis	C,F
<i>Cortaderia selloana</i>	Pampas grass	C,F
<i>Cuphea hyssopifolia</i>	False or Mexican heather	C,F
<i>Cyperus albobstriatus</i>	Dwarf umbrella grass	C,F
<i>Dahlia hybrid Dwarf</i>	Dwarf dahlia	C,F
<i>Dahlia</i> x 'Royal Dahlietta pink'	Dwarf dahlia Wendy pink	C,F
<i>Delosperma alba</i>	White iceplant	F
<i>Delosperma cooperi</i>	Ice plant	C,F
<i>Delosperma nubigenum</i>	Hardy ice plant	C,F
<i>Descampsia caespitosa</i>	Descampsia	C,F
<i>Dianthus gratianopolitanus</i> 'Firewitch'	Firewitch cheddar pink	C,F
<i>Dianthus gratianopolitanus</i> 'Treasure'	Crimson treasure cheddar pink	C,F
<i>Dianthus plumaris</i>	Cottage pink	C,F
<i>Dietes vegeta</i>	Fortnight lily	C,F

<i>Drosantheum floribundum</i>	Trailing rosea iceplant	F
<i>Drosantheum hispidum</i>	Iceplant	C,F
<i>Dryopteris erythrosora</i>	Autumn Fern	C,F
<i>Dryopteris marginalis</i>	Marginal wood fern	C,F
<i>Dryopteris x australis</i>	Dixie wood fern	C,F
<i>Dymondia margaritae</i>	Diamond marguerite	C,F
<i>Ensete ventricosum</i>	Absynnian banana	C,F
<i>Equisetum scirpoides</i>	Dwarf horsetail	C,F
<i>Erianthus ravennae</i>	Hardy pampasgrass	C,F
<i>Erigeron speciosum 'Darkest of all'</i>	Darkest of all fleabane	C,F
<i>Euryops pectinatus 'Munchkin'</i>	Dwarf euryops	C,F
<i>Eustoma grandiflorum 'Pink'</i>	Pink lisianthus	C,F
<i>Evolvulus nuttallianus</i>	Blue daze	C,F
<i>Fatsyhedra japonica</i>	Japanese aralia	C,F
<i>Festuca ovina glauca</i>	Blue fescue	C,F
<i>Gaillardia x grandiflora</i>	Blanket flower	C,F
<i>Gaillardia x grandiflora 'Goblin'</i>	Goblin blanket flower	F
<i>Gazania spp.</i>	Gazania	C,F
<i>Geranium cinerium 'Ballerina'</i>	Ballerina cranesbill	C,F
<i>Geranium sanguineum 'Bloody cran'</i>	Bloody cranesbill	C,F
<i>Geranium subcaulescens</i>	Black eyed magenta cranesbill	C,F
<i>Geum spp.</i>	Avens	C,F
<i>Geum quellyon</i>	Geum	C,F
<i>Gypsophila paniculata</i>	Baby's breath	C,F
<i>Hakonechloa macroaureola</i>	Golden hakonechloa	C,F
<i>Hedera canariensis</i>	Algerian ivy	F
<i>Hedera helix</i>	English ivy	C,F
<i>Helichrysum petiolare 'White licorice'</i>	white licorice helichrysum	C,F
<i>Heliotropium fragrans</i>	common heliotrope	C,F
<i>Hemerocallis spp.</i>	daylily	C,F
<i>Hesperaloe parvifolia</i>	red yucca	C,F
<i>Heuchera x 'Bressingham'</i>	bressingham coral bells	C,F
<i>Heuchera micrantha</i>	coral bells	C,F
<i>Hosta 'Francee'</i>	Francee plantain lily	C,F
<i>Hosta fortunei</i>	Plantain lily	C,F
<i>Hosta lancifolia</i>	Albo-marginata hosta Narrow leafed plantain lily	C,F C
<i>Hosta x 'Patriot'</i>	Patriot plantain lily	C,F
<i>Houttuynia cordata 'Chameleon'</i>	Chameleon Houttuynia	C,F
<i>Hymenoxys acaulis</i>	Angelita daisy	C,F
<i>Hypericum spp.</i>	St. Johnswort	C,F
<i>Impatiens walleryana 'Lipstick'</i>	Lipstick impatiens	C,F
<i>Imperata cylindrical 'rubra'</i>	Japanese blood grass	C,F
<i>Ipomea acuminata 'Blue dawn'</i>	Blue dawn morning glory	C,F
<i>Iris pumila 'Yellow'</i>	Yellow dwarf bearded iris	C,F
<i>Iris siberica</i>	Iris	C,F
<i>Jasminum nitidum</i>	Angelwing jasmine	C,F
<i>Jasminum polyanthum</i>	Pink jasmine	C,F
<i>Kniphofia uvaria 'Flamenco'</i>	Flamenco red hot poker	C,F
<i>Lampranthus spectabilis</i>	Trailing iceplant	F
<i>Leptospermum scoparium</i>	Broom teatree/manuka	C,F
<i>Liatris spicata 'Floristan Violet'</i>	Floristan violet gay feather	C,F
<i>Limonium perezii</i>	Statice	C,F
<i>Liriope gigantea</i>	White lily turf Giant lily turf	C,F C,F
<i>Liriope muscari</i>	Lilac beauty lily turf Majestic lily turf Monroe white lily turf Silvery sunproof lily turf Variegated liriope lily turf Big blue lily turf	C,F C,F C,F C,F C,F C,F
<i>Liriope spicata</i>	Green/creeping lily turf Silver dragon lily turf	C,F C,F

<i>Lonicera japonica</i>	Honeysuckle, Japanese	F
<i>Lysimachia mummularia</i>	Moneywort	C,F
<i>Lysimachia punctata</i>	Dotted loosestrife	C,F
<i>Matteuccia struthiopteris</i>	Ostrich fern	C,F
<i>Matthiola incana</i> 'Harmony'	Stock	C,F
<i>Miscanthus sinensis</i>	Eulalia grass	C,F
<i>Miscanthus sinensis</i> 'Gracillimus'	Maiden grass	C,F
<i>Moraea iridioides</i>	African iris	C, F
<i>Oenothera missouriensis</i>	Ozark sundrops	C,F
<i>Oenothera speciosa</i> 'Siskiyou pink'	Siskiyou evening primrose	C,F
<i>Onoclea sensibilis</i>	Sensitive fern	C,F
<i>Ophiopogon japonicus</i>	Dwarf mondo grass Mondo grass	C,F C,F
<i>Origanum libanoticum</i>	Oregano	C,F
<i>Osmunda cinnamomea</i>	Cinnamon fern	C,F
<i>Osmunda regalis</i>	Royal fern	C,F
<i>Osteospermum fruticosum</i>	Trailing African daisy	F
<i>Pachysandra terminalis</i>	Japanese spurge	C,F
<i>Pachysandra terminalis</i> 'Green sheen'	Green sheen Japanese spurge	C,F
<i>Parthenocissus quinquefolia</i>	Virginia creeper	C,F
<i>Pelargonium x hortorum</i>	Zonal geranium	C,F
<i>Pelargonium peltatum</i>	Ivy geranium	C,F
<i>Pennisetum alopecuroides</i>	Fountain grass	C,F
<i>Pennisetum setaceum</i>	Crimson fountaingrass	C,F
<i>Penstemon x 'Apple blossom'</i>	Apple blossom penstemon	C,F
<i>Pentas lanceolata</i>	Star clusters	C,F
<i>Perovskia atriplicifolia</i>	Russian sage	C,F
<i>Petunia-hybrids</i>	Garden petunias	C,F
<i>Phalaris arundinacea picta</i>	Ribbon grass	C,F
<i>Phlox subulata</i>	Moss pink	C,F
<i>Phormium tenax</i> 'Jack Spratt'	Jack Spratt New Zeland flax	C,F
<i>Polystichum acrostichoides</i>	Christmas fern	C,F
<i>Polystichum polyblepharum</i>	Tassel fern	C,F
<i>Ratbida columnifera</i>	Mexican hat	C,F
<i>Rudbeckia fulgida</i>	Blackeyed susan	C,F
<i>Ruscus hypophyllum</i>	Butcher's broom (Israeli ruscus)	C,F
<i>Salvia daghestanica</i>	Platinum sage	C,F
<i>Salvia grahamii</i>	Graham's sage	C,F
<i>Sasa pygmaea</i>	Dwarf bamboo	C,F
<i>Scutellaria resinosa</i>	Skull cap	C,F
<i>Sedum x 'Autumn joy'</i>	Autumn joy stonecrop	C,F
<i>Sedum x 'Vera Jameson'</i>	Vera Jameson stonecrop	C,F
<i>Tagetes patula</i> 'Little Hero'	Little hero marigold	C,F
<i>Trachelospermum asiaticum</i>	Asian jasmine	C,F
<i>Tulbaghia violacea</i>	Society garlic	C,F
<i>Verbena rigida</i>	Veined verbena	C,F
<i>Vinca major</i>	Periwinkle, bigleaf	C,F
<i>Vinca minor</i>	Periwinkle, dwarf	F
<i>Vinca spp.</i>	Periwinkle	F

Non-Bearing Trees and Vines

Non-Bearing Trees and Vines*	Treatment Method: C = Container Grown; F = Field Grown
almond	F
apple	F
apricot	F
avocado	F
blackberry	F
blueberry	F
boysenberry	F
cherry, sour	F
cherry, sweet	F
currant	F
dewberry	F
elderberry	F
fig	F
filbert	F
gooseberry	F
grape, American	F
grape, European	F
grapefruit	F
kiwi	F
lemon	F
loganberry	F
macadamia nut	F
nectarine	F
olive	F
orange	F
peach	F
pear	F
pecan	F
pistachio	F
pomegranate	F
prune	F
raspberry	F
walnut, black	F
walnut, English	F

*Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants that will not bear fruit for at least one year after treatment.

Ornamental Bulbs

Ornamental Bulbs grown in Landscape Settings

Apply Quali-Pro Isoxaben 75 WG for control of susceptible annual weeds in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), gladiolus, hyacinth, lilies, and tulip. Apply Quali-Pro Isoxaben 75 WG to weed-free soil surface 2 to 4 weeks after planting but prior to the emergence of annual weeds. Quali-Pro Isoxaben 75 WG may also be applied following bulb emergence but prior to the emergence of annual weeds. Quali-Pro Isoxaben 75 WG can also be applied following bulb emergence but prior to flowering and after flowering in landscape settings. For fall planted bulbs, apply Quali-Pro Isoxaben 75 WG to weed-free soil surfaces in late winter or early spring. For bulbs, make a single application within 30 days following planting and prior to bulb emergence of up to 0.66 lb per acre. Do not exceed the 0.66 lb of Quali-Pro Isoxaben 75 WG per acre rate.

Use Precautions for Ornamental Bulbs in Landscape Settings:

Quali-Pro Isoxaben 75 DF is **NOT** suggested for application to:

- Tulip plants that have emerged to a height greater than 3/4 inch.
- Gladiolus prior to emergence or if corms are less than one inch in diameter.
- Bulbs while they are flowering.

Ornamental Bulbs Grown for Commercial Production

Apply Quali-Pro Isoxaben 75 WG for control of susceptible annual weeds in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), gladiolus, hyacinth, lilies, and tulip. Apply Quali-Pro Isoxaben 75 WG to weed-free soil surface 2 to 4 weeks after planting but prior to the emergence of ornamental bulbs and prior to the emergence of

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annual weeds. For fall planted bulbs, apply Quali-Pro Isoxaben 75 WG to weed-free soil surfaces in late winter or early spring. Make a single application of up to 0.66 lb per acre. Do not exceed the 0.66 lb of Quali-Pro Isoxaben 75 WG per acre rate.

Use Precautions for Ornamental Bulbs Grown for Commercial Production:

Do not apply Quali-Pro Isoxaben 75 WG after the emergence of ornamental bulbs

Shadehouse Areas

Quali-Pro Isoxaben 75 WG may be applied in open shadehouse-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within three weeks prior to enclosing greenhouses or poly-type structures.

Christmas Tree and Conifer Plantations

Quali-Pro Isoxaben 75 WG - Alone

Apply Quali-Pro Isoxaben 75 WG as a directed spray to the soil surface or as an over the top spray to established plantings of field grown Christmas tree and conifer species listed in this label. Follow all instructions provided in the **PRODUCT INFORMATION** section of this label.

Specific Use Precautions and Restrictions for Christmas Tree and Conifer Plantations:

Do not apply Quali-Pro Isoxaben 75 WG to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Tank Mix Combinations

Tank mix combinations of Quali-Pro Isoxaben 75 WG plus other labeled herbicides may be used in established Christmas tree plantings. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions and limitations before use. Refer to instructions for **Quali-Pro Isoxaben 75 WG - Tank Mix** in the **MIXING DIRECTIONS** section.

Quali-Pro Isoxaben 75 WG/ Quali-Pro Glyphosate T&O: Apply tank mix combinations of Quali-Pro Isoxaben 75 WG plus Quali-Pro Glyphosate T&O herbicide only as directed sprays in Christmas tree plantings. When applied as directed, Quali-Pro Isoxaben 75 WG plus Quali-Pro Glyphosate T&O will provide postemergence control of susceptible weed species listed on the label for Quali-Pro Glyphosate T&O and residual preemergence control of susceptible weed species listed on the label for Quali-Pro Isoxaben 75 WG. Refer to the Quali-Pro Glyphosate T&O label for specific use directions, precautions and limitations before use. Refer to instructions for **Quali-Pro Isoxaben 75 WG - Tank Mix** in the **MIXING DIRECTIONS** section.

Use Precautions

- Do not apply sprays containing Quali-Pro Glyphosate T&O over the top of Christmas tree plantings.
- Extreme care must be exercised to prevent contact of sprays containing Quali-Pro Glyphosate T&O with foliage or stems of Christmas trees or other desirable plants or severe plant damage or death may result.

NON-CROPLAND AREAS

Use Quali-Pro Isoxaben 75 WG as a preemergence herbicide for control of listed broadleaf weeds in non-cropland areas including industrial sites, utility substations, parking lots, driveways, walking paths, highway guardrails, sign posts and delineators where maintenance of bare ground is desired.

Apply Quali-Pro Isoxaben 75 WG any time prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with post emergence herbicides.

Refer to the **PRODUCT INFORMATION** section prior to using this product on non-cropland areas.

Quali-Pro Isoxaben 75 WG is compatible and can be tank mixed with other herbicides registered for use on non-cropland areas. Applied as directed, tank mixes containing Quali-Pro Isoxaben 75 WG will provide control of susceptible weed species listed on the respective labels. All directions, precautions and limitations on the respective product labels apply to the tank mix use. Refer to instructions for **Quali-Pro Isoxaben 75 WG - Tank Mix** in the **MIXING DIRECTIONS** section.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: Store in original container only. Do not store in direct sunlight. Do not store at temperatures above 120°F. In case of leak or spill, contain material and dispose of as waste.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable Container (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable Container (rigid - fifty lbs or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable Container (rigid - greater than fifty lbs): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable Container: Refillable container. Refill this container with isoxaben only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and IMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

Quali-Pro is a registered trademark of Makhteshim Agan of North America, Inc.

Quali-Pro Isoxaben 75 WG (66222-218)(approved 08-17-10) (to EPA 09-20-10)
066222-00218.20100920b.QPIsoxaben75BulbAmend.pdf



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Supplemental Labeling **ACCEPTED**
with COMMENTS
In EPA Letter Dated:
DEC 13

QUALI-PRO[®] ISOXABEN 75 WG

EPA Reg. No. 66222-218

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

66222-218

SUPPLEMENTAL DIRECTIONS FOR USE ON ORNAMENTAL BULBS

DIRECTIONS FOR USE

- It is a violation of Federal law to use this product inconsistent with its labeling.
- This supplemental labeling must be in the possession of the user at the time of pesticide application.
- Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA registered label.
- This new use can be found on the EPA stamped label for Quali-Pro[®] Isoxaben 75 WG dated xx-xx-xx.

Ornamental Bulbs

Ornamental Bulbs grown in Landscape Settings

Apply Quali-Pro Isoxaben 75 WG for control of susceptible annual weeds in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), gladiolus, hyacinth, lilies, and tulip. Apply Quali-Pro Isoxaben 75 WG to weed-free soil surface 2 to 4 weeks after planting but prior to the emergence of annual weeds. Quali-Pro Isoxaben 75 WG may also be applied following bulb emergence but prior to the emergence of annual weeds. Quali-Pro Isoxaben 75 WG can also be applied following bulb emergence but prior to flowering and after flowering in landscape settings. For fall planted bulbs, apply Quali-Pro Isoxaben 75 WG to weed-free soil surfaces in late winter or early spring. For bulbs, make a single application within 30 days following planting and prior to bulb emergence of up to 0.66 lb per acre. Do not exceed the 0.66 lb of Quali-Pro Isoxaben 75 WG per acre rate.

Use Precautions for Ornamental Bulbs in Landscape Settings:

Quali-Pro Isoxaben 75 DF is **NOT** suggested for application to:

- Tulip plants that have emerged to a height greater than 3/4 inch.
- Gladiolus prior to emergence or if corms are less than one inch in diameter.
- Bulbs while they are flowering.

Ornamental Bulbs Grown for Commercial Production

Apply Quali-Pro Isoxaben 75 WG for control of susceptible annual weeds in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), gladiolus, hyacinth, lilies, and tulip. Apply Quali-Pro Isoxaben 75 WG to weed-free soil surface 2 to 4 weeks after planting but prior to the emergence of ornamental bulbs and prior to the emergence of annual weeds. For fall planted bulbs, apply Quali-Pro Isoxaben 75 WG to weed-free soil surfaces in late winter or early spring. Make a single application of up to 0.66 lb per acre. Do not exceed the 0.66 lb of Quali-Pro Isoxaben 75 WG per acre rate.

Use Precautions for Ornamental Bulbs Grown for Commercial Production:

Do not apply Quali-Pro Isoxaben 75 WG after the emergence of ornamental bulbs

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QP Isoxaben 75 WG (66222-218) Supplemental (to EPA 09-20-10)

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