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<b>ŞEPA</b>	Environmenta	United States			Ø Provec	Registrati Amendme Other	on		l expires 2-28-9 tifier Number
		Applicatio	n for Pest	icide - Sec	tion	t			
1. Company/Product Numbe 79676-13	)ř			PA Product Ma Miller	neger		. I r—	oposed Clas	<del></del> 1
4. Company/Product (Name) Gro-Pro LLC / Oryzalin			PM		23		🗸	None	Restricted
5. Name and Address of App Gro-Pro LLC c/o Pyxis Regulatory Co 4110 136th St. NW Gio Harbor, WA 98332	plicant (Include ZIP Co	ode)	(b)(i to: EP		veiw.	In accordance			
			Section						
Notification - Explain  Explanation: Use addition  Notification of label change at 40 CFR 152.46, and no	below.  helpage(s) if necesser ges per PR Notice 98 be other changes have	ry. (For section 3-10. This notification made to	ication is cons	Agency let "Me Too" Other - Exp II.) sistent with the or the confiden	tter dat Applica plain be provis	ation.  slow.  ions of PR Notatement of form	ice 98-	JUL  10 and EPA	. I *
understand that it is a viol notification is not consiste state to enforcement ac	lation of 18 U.S.C. So ent with the terms of I ction and penalties ur	PR Notice 98-1	0 and 40 CFF	R 152.46, this p IFRA.	ent to E product	EPA. I further ut may be in viol	inderst ation o	and that if t f FIFRA and	his d I may be
1. Material This Product Will	Be Packaged in:								···
Child-Resistant Packaging Yes No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container	Water Solubi Yes No If "Yes" Package wgt	No. per		P	fetal fastic ilass aper	pecify)	
3. Location of Net Contents		4. Size(s) Reta	il Container		5. Loc	cation of Label (			
6. Manner in Which Label is	ontainer Affixed to Product	Lithogra Paper gi Stencile	iued	Othe	)r	On Labeling acc	ompany.	ng product	
	<u> </u>	3tençale	Section	· IV	¥				<u></u>
1. Contact Point (Complete	items directly below i	or identification			if nece	essary, to proce	ss this	application.)	<del></del> .
Name Michael Kellogg		7	ītie Agent			Tel	ephone	<del></del>	e Area Code)
I certify that the stater I acknowledge that and both under applicable I	y knowlinglly false or		Il attachments		•	•		6. Date App Received (Stai	
2 ture  Military	May	-	. Title Agent						
4. Typed Name		5.	. Date						
Michael Kellogg		1	1/011	/ 					

## Oryzalin G-Pro Herbicide

A preemergence surface-applied herbicide for control of annual grasses and many broadleaf weeds in:

- Landscape Ornamentals
- Container Grown Ornamentals
- Field Grown Ornamentals
- Drainage Areas Under Shadehouse Benches
- Ornamental Bulbs
- Ground Covers/Perennials
- Christmas Tree Plantations

- Non-bearing fruit and nut trees and nonbearing vineyards
- Noncropland and Industrial Sites
- Established Warm Season Turf (including Bahiagrass, Bermudagrass, Buffalograss, Centipedegrass, St. Augustinegrass and Zoysiagrass)
- Tall Fescue (warm season areas)

## **ACTIVE INGREDIENT:**

Oryzalin: 3,5-dinitro-N <sup>4</sup> , N <sup>4</sup> -dipropylsulfanilamide								
						<u>.</u>		
TOTAL:		********			 ************	10	00.0%	٠
								• • •

Contains 4.0 pounds of active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCION

Si usted no entienda 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.)

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- Hill	≀ST	Δ	ID.

If in eyes:

- 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.

## HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

See inside label booklet for additional PRECAUTIONARY STATEMENTS

EPA Reg. No. 79676-13

EPA Est. No.

Manufactured for: Gro-Pro, LLC 2214 Hwy 44 West Inverness, FL 34453 www.gro-pro.com

Oryzalin G-Pro Herbicide contains oryzalin, the active ingredient used in Surflan<sup>®</sup>.

**Net Contents:** 

NOTIFICATION
JUL 1 8 2005



## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes eye irritation. Prolonged or frequently repeated contact may cause allergic reactions in some individuals. Avoid contact with eyes or clothing.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Mixers and loaders must wear a chemical-resistant apron in addition to other PPE.

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.

#### ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (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.

## **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.
- 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 pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

## Shake Well Before Using.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read the "Condition of Sale and Limitation of Warranty and Liability" section of this label. If terms are unacceptable, return at once unopened.

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a 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 regulation.



## AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. **Exception:** If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Workers may enter treated areas without required PPE during the reentry interval following ½ to 1 inch of rainfall or irrigation, if they are performing tasks that do not involve contact with the soil subsurface; otherwise, 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
- Chemical-resistant 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: Keep all persons, children and pets out of treated area until sprays have dried.

## **GENERAL INFORMATION**

Oryzalin G-Pro Herbicide is a preemergence surface-applied product for the control of many annual grasses and broadleaf weeds in ornamental plantings, bulbs, ground covers/perennials, established warmseason turfgrass, Christmas tree plantations, non-bearing trees and vines, and noncropland and industrial sites.

Oryzalin G-Pro Herbicide is orange in color and may cause temporary discoloration of sprayed surfaces. If this discoloration is undesirable, it may be altered by using a commercially available colorant such as Blazon or removed by spraying surface with water or washing with an industrial cleaner immediately after application. Oryzalin G-Pro Herbicide may also be applied with mulch colorants such as Mulch Magic or Nu-Mulch.

## Treatment of Plant Species Not Listed on the Oryzalin G-Pro Herbicide Label

Users who with to use Oryzalin G-Pro Herbicide on plant species not recommended on this label may determine the suitability for use by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30-60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from the use of Oryzalin G-Pro Herbicide on plant species not recommended on this label.

**Aerial Application:** Do aerially apply this product.

**Chemigation:** Do not apply this product through any type of irrigation system.

Do not graze or feed forage from treated areas to livestock.

**Precaution:** Avoid spray drift to non-target areas when applying Oryzalin G-Pro Herbicide. Spray drift may result in reduced emergence of non-target plants adjacent to the treated area. Poor weed control may result if directions are not followed. Over-application may result in crop injury or excessive soil residue.

## APPLICATION

## SOIL PREPARATION

Oryzalin G-Pro Herbicide controls weeds growing from seed. Oryzalin G-Pro Herbicide will not control emerged weeds. Oryzalin G-Pro Herbicide does not control established weeds, weeds growing from stolens, rhizomes, or root pieces. Therefore, areas to be treated should be free of emerged weeds. Weed residues, prunings, and trash should be thoroughly mixed into the soil or removed prior to treatment. In field applications, the soil should be in good tilth and free of clods at the time of application.

Ground Application: Apply Oryzalin G-Pro Herbicide as a directed spray to the soil surface or over the top of plants. Use only a properly calibrated, low-pressure, herbicide sprayer that will apply the spray uniformly. Use screens no finer than 50 mesh in nozzles and in-line strainers. Apply the appropriate rate of Oryzalin G-Pro Herbicide, as outlined in the "Approved Uses" section of this label. In all cases, use sufficient water volume to obtain uniform coverage and deliver the desired rate of Oryzalin G-Pro Herbicide to the treated area. The volume of water used is not critical as long as the desired rate of Oryzalin G-Pro Herbicide is delivered uniformly across the area treated. When calibrating, determine the volume of water delivered by the sprayer to a given area (1,000 sq. ft, 1 acre, etc.). Then mix the desired rate of Oryzalin G-Pro Herbicide in the amount of water required to cover the entire area to be treated. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Maintain continuous agitation from mixing through application. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application.

Hand-Held or Backpack Sprayer Application: The amount of water used to apply Oryzalin G-Pro Herbicide is not critical, but should be sufficient for uniform coverage of the target area. Calibrate by determining the volume of water required to treat 1,000 sq. ft. Use this calibration volume to determine the amount of water and Oryzalin G-Pro Herbicide needed to treat the target area (see the following calibration example). Note: Sprayer calibration (volume of spray needed to treat 1,000 sq. ft.) will vary with each individual operator.

## Steps in Calibration:

- 1. Mark an area of 1,000 sq. ft. (i.e., 20 by 50 feet, or 25 by 40 feet).
- 2. Place the sprayer on a level surface and add water noting the final level of water in the spray tank.
- 3. Spray the marked area with a sufficient volume of water to provide uniform coverage. Refill the sprayer to the same level as before measuring the amount of water added. The measured water added to the sprayer is the volume needed to cover 1,000 sq. ft.
- 4. Determine the application rate (fl. oz./1,000 sq. ft.) for Oryzalin G-Pro Herbicide from the "Approved Uses" section of this label.
- 5. To each volume of water used, as measured in step 3, add the amount of Oryzalin G-Pro Herbicide as determined in step 4.

**Example:** If the sprayer used 2 gallons of water to cover 1,000 sq. ft. and the desired Oryzalin G-Pro Herbicide application rate is 3 fl. oz./1,000 sq. ft., then you would add 3 fl. oz. of Oryzalin G-Pro Herbicide to every 2 gallons of water to be used.

## MIXING DIRECTIONS

## Shake Well Before Using

**Precaution:** Do not allow the spray mixture to siphon back into water source.



## Oryzalin G-Pro Herbicide - Alone

Make sure the spray tank is clean and use only clean water. Fill spray tank ½ - ¾ full. Start agitation and add the required amount of Oryzalin G-Pro Herbicide. Continue agitation and finish filling the spray tank. Maintain continuous agitation until application is completed.

## Oryzalin G-Pro Herbicide - Tank Mix Combinations

Prior to tank mixing, read and carefully follow all label instructions and precautions for each product added to the tank mixture. Vigorous, continuous agitation is required for all tank mixes of Oryzalin G-Pro Herbicide. Sparger pipe agitators generally provide the best agitation in spray tanks.

Mixing Order: Fill the tank ¾ full with clean water. Start agitation and add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: dry flowables (DF); wettable powders (WP); Oryzalin G-Pro Herbicide and other aqueous suspensions (AS); flowables (F); and liquids (L); solutions (S); and emulsifiable concentrates (EC).

Continue agitation and finish filling the spray tank with clean water. Maintain agitation until application is completed. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be completely resuspended before spraying is continued. A sparger agitator is particularly useful for this purpose.

**Premixing:** When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Adding the slurried material to the spray tank through a wetting screen of 20 or 35 mesh will help assure good initial dispersion.

## **Equipment Cleaning**

If a buildup of material occurs on the walls of the spray tank, it should be removed between fillings by washing with soap and water and rinsing thoroughly. Tanks, lines, screens, and nozzles should be cleaned thoroughly after each use.

## **Activation and Cultivation**

Oryzalin G-Pro Herbicide remains stable on the soil surface up to 21 days following application. In the absence of timely rainfall, irrigation can be used to activate Oryzalin G-Pro Herbicide. A minimum of ½ inch of rain or its equivalent in sprinkler irrigation is necessary to activate Oryzalin G-Pro Herbicide. If weeds begin to emerge due to lack of rainfall or irrigation, shallow cultivate 1-2 inches deep to destroy existing weeds, or remove them by hand. Shallow cultivation to a depth of 1-2 inches will enhance herbicidal effectiveness. Erratic weed control may result if Oryzalin G-Pro Herbicide is not activated by rainfall, irrigation, or cultivation within 21 days of application, or existing weeds have not been removed.

## WEEDS CONTROLLED BY ORYZALIN G-PRO HERBICIDE

Annual Grasses: Common Name	Scientific Name	Common Name	Scientific Name
barley, little	Hordeum pusillum	Johnsongrass (seedling only)	Sorghum halepense
barnyardgrass (watergrass)	Echinochloa crus-galli	junglerice	Echinochloa colonum
bluegrass, annual	Poa annua	lovegrass, Mexican	Eragrostis mexicana
crabgrass, large	Digitaria sanguinalis	lovegrass, orcutt	Eragrostis orcuttiana
crabgrass, smooth	Digitaria ischaemum	oat, wild	Avena fatua
crowfootgrass	Dactyloctenium aegyptium	panicum, browntop	Panicum fasciculatum
cupgrass, southwestern	Eriochloa gracilis	panicum, fall (spreading panicgrass)	Panicum dichotomiflorum

Annual Grasses: Common Name foxtail, bristlegrass	Scientific Name Setaria magna	Common Name panicum, Texas (buffalograss) (Coloradograss)	Scientific Name Panicum texanum
foxtail, giant foxtail, green (pigeongrass)	Setaria faberi Setaria viridis	ryegrass, Italian signalgrass (Brachiaria)	Cenchrus incertus Brachiaria spp.
foxtail, robust foxtail, yellow goosegrass (silver crabgrass)	Setaria robusta Setaria glauca Eleusine indica	sprangletop, red witchgrass	Leptochloa filiformis Panicum capillare
Broadleaf Weeds: Common Name bittercress carpetweed chickweed, common fiddleneck, coast filaree, redstem filaree, whitestem	Scientific Name Cardamine oligosperma Mollugo verticillata Stellaria media Amsinckia intermedia Erodium cicutarium Erodium moschatum	Common Name pigweed, redroot pigweed, spring pigweed, tumble puncturevine purslane, common pusley, Florida (Florida purslane) (Mexican clover) (pusley)	Scientific Name Amaranthus retroflexus Amaranthus hybridus Amaranthus albus Tribulus terrestris Portulaca oleracea Richardia scabra
groundsel, common henbit knotweed, prostrate lambsquarters pigweed, prostrate	Senecio vulgaris Lamium amplexicaule Polygonum aviculare Chenopodium album Amaranthus blitoides	rocket, London rockpurslane, desert shepherdspurse spurge, prostrate woodsorrel, yellow	Sisymbrium irio Calandrinia ciliate Capsella bursa-pastoris Euphorbia humistrata Oxalis stricta

## WEEDS SUPPRESSED BY ORYZALIN G-PRO HERBICIDE

Control of the following weeds may be erratic, ranging from poor to excellent, depending upon soil temperature, time of germination, depth of seed in the soil, and amount and timing of soil moisture:

Common Name	Scientific Name	Common Name	Scientific Name
horseweed	Conyza canadensis	nightshade, black	Solanum nigrum
ladysthumb	Polygonum persicaria	ragweed, common	Ambrosia artemisiifolia
lettuce, prickly	Lactuca serriola	smartweed	Polygonum pensylvanicum
mallow, common	Malva neglecta	sowthistle, annual	Sonchus oleraceus
milkweed, climbing	Sarcostemma cynanchoides	spurge, spotted	Euphorbia maculate
morningglory	Ipomoea spp.	teaweed (prickly sida)	Sida spinosa
mustard, black	Brassica nigra	velvetleaf	Abutilon theophrasti
mustard, wild	Brassica kaber	wheat, volunteer	Triticum spp.

## **CROP-SPECIFIC USE DIRECTIONS**

## **ORNAMENTAL PLANTINGS**

Oryzalin G-Pro Herbicide is recommended for use on certain landscape container-and field-grown established ornamental plants including: trees, shrubs, ground covers/perennials, flowers, non-bearing

fruit and nut trees, non-bearing vineyards; and in the production of ornamental bulbs (See "Ornamental Bulbs" section for specific use directions).

**Broadcast Application Rates** 

Labeled Use Site	Length of Control	Oryzalin G	-Pro Herbicide	Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qts./acre)
		(qts./acre)	(fl. oz./1,000 sq. ft.)		
Landscape	2-4 months	2	1.5	2	8 -
Ornamentals	3-6 months	3	2.2	4	12
	4-8 months	4	3	4	12
Field-grown and	2-4 months	2	1.5	3	8
container-grown	3-6 months	3	2.2	3	9
ornamentals	4-8 months	4	3	3	12

## **Tank Mix Combinations**

Tank mix combinations of Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup>, and many other labeled herbicides may be used to control undesirable vegetation in ornamental areas. Oryzalin G-Pro Herbicide may also be tank mixed with Gallery<sup>TM</sup> herbicide and applied preemergence to broaden the spectrum of broadleaf weed control in ornamental areas. Applied as directed, these tank mixes of Oryzalin G-Pro Herbicide will provide control of susceptible weed species listed on the respective labels. Refer to the tank mix product labels for specific use directions, precautions, and limitations before use.

Oryzalin G-Pro Herbicide Plus Roundup<sup>®</sup>: Tank mix combinations of Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup> are recommended to control existing undesirable vegetation. Applied as directed, Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup> will provide postemergence control of susceptible weed species listed on the label for Roundup<sup>®</sup> and residual preemergence control of susceptible weed species listed on the label for Oryzalin G-Pro Herbicide. Refer to the label for Roundup<sup>®</sup> for specific use directions, precautions, and limitation before use.

Precautions: Do not apply sprays containing Roundup® over the top of ornamental plants. Extreme care must be exercised to prevent sprays containing Roundup® from coming in contact with foliage and stems of turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or death may result. If spraying with Roundup® in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage and stems of desirable plants.

## **Special Use Precautions:**

Apply only to established plants that have been transplanted into their 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.

Rooted liners should be removed from their original growing containers and placed in new containers at least two weeks prior to treatment or injury may occur.

To avoid possible injury, do not apply Oryzalin G-Pro Herbicide to:

- Nursery, forest, or Christmas trees: seedling beds, cutting beds, or transplant beds.
- Unrooted liners or cuttings that have been planted in pots for the first time.
- Pots less than 4 inches wide.
- Ground covers until they are established and well rooted.
- Ornamental plantings where there is likelihood of runoff onto lawn areas.
- Areas containing dichondra or cool season turfgrass species.



On container grown ornamentals where weed seed germination continues for extended periods of time, do not make repeat applications of Oryzalin G-Pro Herbicide for at least 90 days or crop injury may occur.

Applications of Oryzalin G-Pro Herbicide over the top of plants with newly forming buds may cause injury. In this situation a directed spray is recommended.

For soils treated with Oryzalin G-Pro Herbicide during the previous season, plant only the ornamental species listed on this label or injury may occur.

Ice Plant: When establishing unrooted ice plant on coarse-textured soils in landscape plantings, do not exceed the 2-quart per acre rate of Oryzalin G-Pro Herbicide or crop injury may occur.

Note: Injury on the following plant species has been observed following applications of Oryzalin G-Pro Herbicide and use is not recommended:

Deutzia gracillis (slender deutzia)
Pseudotsuga menziesii (Douglas fir)
Thuja occidentalis 'Techny' (Techny arborvitae)
Tsuga canadensis (eastern hemlock)
Begonia spp. (begonia)
Coleus hybridus (coleus)

**Trees** 

Oryzalin G-Pro Herbicide May be Used on the Following Established Plant Species: (Note: Limitations on recommended treatment methods).

## TREES

Trees (continued)

1100	Recommended Trea M F = Field C C = Container C	lethod Grown	2.000 (	Recommended Treat M F = Field G C = Container G	ethod rown
Scientific Name	Common Name		Scientific Name	Common Name	
Abies balsamea	Fir, balsam	F	Heteromeles arbutiflora	Toyon	F
Abies concolor	Fir, white	F	Juniperus virginiana	Redcedar, Eastern	F
Abies fraseri	Fir, fraser	F	Koelreuteria paniculata	Goldenrain tree	F
Abies grandis	Fir, grand	F	Liquidambar styraciflua	Sweetgum, American	C,F
Abies veitchi	Fir, Vietch	F	Magnolia spp.	Magnolia	F
Abies lasiocarpa	Fir, alpine	F	Malus spp.	Crabapple	F
Abutilon hybridum	Albus-flowering maple	F	Morus alba	White mulberry	F
,	Luteus-flowering maple	F	Picea abies	Pendula-weeping Norway spruce	F
	Roseus-flowering maple	F		Repens-spreading Norway spruce	F
	Tangerine-flowering maple	F		Spruce, Norway	F
	Vesuvius red-flowering maple	F	Picea englemanni	Spruce, Englemann	F
Acer gimmala	Flame maple	F	Picea glauca	Spruce, white	F
Acer rubrum	Red sunset maple	F	3	Conica-dwarf Alberta spruce	F
Acer saccharinum	Silver maple	F	Picea glauca conica	Dwarf Alberta spruce	F
Acer spp.	Maple	F	Picea mariana	Spruce, black	F
Alsophila australis	Australian tree fern	C,F	Picea pungens	Glauca-Colorado blue	F

Trees

## Trees (continued)

# Recommended Treatment Method F = Field Grown C = Container Grown

Recommended Treatment
Method
F = Field Grown
C = Container Grown

Scientific Name	Common Name		Scientific Name	Common Name	
Areacastrum	Queen palm	F		Hoopsii-Hoop's blue	F
romanzoffianum	` '			spruce	
Betula nigra	Birch, river	F		Koster-Koster blue	F
Betula papyrifera	Paper birch	F		spruce Spruce, Colorado	C,F
Betula pendula	Birch, white	F	Pinus aristata	Bristlecone pine	F
Bucida buceras	Black olive	F	Pinus canariensis	Canary Island pine	F
Carya spp.	Pecan, ornamental	C,F	Pinus contorta	Shore pine, beach pine	F
Cedrus, atlantica	Atlas cedar	C,F	Pinus eldarica	Eldarica pine	F
Cedrus deodara	Deodar cedar	C,F	Pinus halepensis	Aleppo pine	C,F
Ceratonia siliqua	Carob	F	Pinus radiata	Monterey pine	F
Cercidium floridum	Palo Verde, blue	F	Pinus spp.	Pine	C,F
Cercis canadensis	Redbud	C,F	Pinus strobus	Eastern white pine	F
		C,r F			F
Chamaecyparis lawsoniana	Falsecypress, Lawson	Г	Pinus sylvestris	Scotch pine	Г
Chamaecyparis	Filicoides-fernspray	F	Pinus thunbergiana	Japanese black pine	F
obtusa	cypress Gracilis-slender Hinoki cypress	F	Platanus occidentalis	American sycamore	F
Chamaecyparis	Sawara-false cypress	F	Platanus racemosa	California sycamore	F
pisifera		_		• • <b>,</b>	
. ,	Squarrosa-moss cypress	F	Podocarpus spp.	Podocarpus	F
Chamaedorea	Cat Palm	F	Populus deltoides	Cottonwood	F
cataractarum					
Chamaedorea	Palm	F		Cottonwood (grown	F
costaricana		_		for pulp)	
Chamaedorea	Parlor palm	F	Prunus caroliniana	Laurelcherry, Carolina	F
elegans	<b>p</b>	_		,,	
Citrus spp.	Citrus, ornamental	C,F	Prunus glandulosa	Dwarf flowering almond	C,F
Cornus florida	Dogwood, flowering	F	Prunus laurocerasus	Laurelcherry, English	F
Cryptomeria	Cryptomeria, Japanese	C,F	Prunus mahaleb	Cherry, Mahaleb	F
japonica	Cryptonicita, Japanese	C,1	1 runus munusco	Cherry, Manareo	•
Cupaniopsis	Carrot wood	F	Prunus yedoensis	Yoshino flowering	F
anacardioides	Carrot wood	•	1 runus yeuvensis	cherry	•
	Cimraca Aminana	C,F	Pyrus communis	Pear	F
Cupressus arizonica	Cypress, Arizona	C,I	r yrus communis	rear	1
(glabra)	A ====================================	CE	Output naturation	Pin oak	F
Cupressus glabra	Arizona cypress	C,F	Quercus palustris	Willow oak	F
Cupressocyparis	Leyland cypress	C,F	Quercus phellos	willow oak	Г
leylandii	Common Tablian	O.F.	0	Dadada	C.E.
Cupressus	Cypress, Italian	C,F	Quercus rubra	Red oak	C,F
sempervirens	<b></b>	O.F.	0	0.1	O.F.
Dicksonia antarctica	Tasmanian tree fern	C,F	Quercus spp.	Oak	C,F
Elaeagnus	Russian olive	C,F	Salix babylonica	Babylon weeping	F
angustifolia				willow	_
Eucalyptus camaldulensis	Red gum eucalyptus	F		Corkscrew willow	F
Eucalyptus cinerea	Eucalyptus, mealy	F	Schinus molle	California pepper tree	F

Trees	Recommended Trea  M F = Field C C = Container C	lethod Frown	Trees (continued)	Recommended Trea  M F = Field C C = Container C	Iethod Grown
Scientific Name	Common Name	_	Scientific Name	Common Name	_
Eucalyptus nicholii	Silver dollar eucalyptus Eucalyptus, narrow- leaved	F F	Sequoia sempervirens Sequoiadendron giganteum	Redwood, coast Giant sequoia	F F
Eucalyptus sideroxylon	Eucalyptus, red ironbark	F	Swietania mahogani	Mahogany	. F
Ficus benjamina	Ficus	F	Tabebuia caraiba	Yellow tab	F
Fraxinus spp.	Ash	F	Tilia cordata	Linden, little leaf	C,F
Ginkgo biloba	Ginkgo (Maidenhair tree)	C,F	Ulmus parvifolia	Chinese elm	F
Gleditsia	Honey locust	F	Umbellularia	California laurel	F
triacanthos	Troney locust	1	californica	Camoma laurei	•
ii iacaiiii ios			Washingtonia robusta	Mexican fan palm	F
		SHR	UBS		
Shrubs			Shrubs (continued)		
	Recommended Trea	tment		Recommended Trea	
	M	ethod		M	<b>lethod</b>
	F = Field C	Frown		F = Field C	
	C = Container C	Frown	_	C = Container C	Grown
Scientific Name	Common Name		Scientific Name	Common Name	
Abelia grandiflora	Glossy abelia	F	Lonicera periclymenum	Flowering woodbine	F
Acacia redolens	Acacia, prostrate	F	zonica a por rosymonam.	Serotina woodbine	F
Agave americana	Century plant	F	Lonicera sempervirens	Trumpet honeysuckle	F
Agave macroculmis	Agave	F	Lorpetalum chinese	(No common name)	C,F
Anisodontea	Cape mallow	C,F	Mahonia aquifolium	Oregon grape	F
hypomandarum	cape manow	٠,,	manoma aqayonam	Ologon Braho	•
Arctostaphylos stanfordiana	Manzanita, Stanford	F	Myoporum parvifolium	Myoporum, prostrate	F
Astilbe chinensis	Astilbe/false spirea	C,F	Myrtus communis	Myrtle, true	C,F
Baccharis pilularis	Coyotebush	F	Nandina domestica	Compacta-dwarf heavenly bamboo	C,F
Berberis thunbergii	Aurea-golden Japanese barberry	C,F		Harbour dwarf- heavenly bamboo	C,F
	Crimson pygmy barberry	C,F		Heavenly bamboo (Nandina)	C,F
	Atropurea-redleaf	C,F		Nana compacta-	C,F
	Japanese barberry			heavenly bamboo	
	Barberry, Japanese	C,F		Nana purpurea- heavenly bamboo	C,F
Bougainvillea spp.	Barbara Karst	F		Woods dwarf- heavenly bamboo	C,F
	California gold	F	Nerium oleander	Hardy red oleander	C,F
	Scarlet O'Hara	F		Oleander	C,F
	Texas dawn	F		Ruby lace oleander	C,F
Buxus microphylla	Littleleaf boxwood	F	Osmanthus heterophyllus	Osmanthus, holly-leaf	F
Buxus microphylla	Boxwood, Japanese	C,F	Pachysandra terminalis	Japanese spurge	C,F



Shrubs Shrubs (continued) **Recommended Treatment** Recommended Treatment Method Method F = Field Grown F = Field Grown C = Container Grown C = Container Grown Scientific Name Common Name Scientific Name Common Name C,F Buxus sempervirens Boxwood, common C,FPhiladelphus spp. Mockorange Callistemon citrinus Bottlebrush, lemon C.F Phoenix roeloelenii Pigmy date palm F Cassia artemisioides Cassia, feathery Photinia fraseri Fraser's photinia C,F F Ceanothus Jerseytea, redroot C.F Photinia C,F americanus F Ceanothus spp. Wild lilac C.F Pieris japonica Lily-of-the-valley Chaenomeles Flowering quince C.F Snowdrift lily-of-the-F japonica valley Chamaecyparis F Temple bells lily-of-F Kosteri cypress obtusa the-valley F F Nana-dwarf Hinoki Valley rose lily-of-thecypress vallev F C,FTorulosa cypress Andromeda F Chamaecyparis Squarrosa Minima Pittosporum spp. Pittosporum C.F pisifera cypress Chamaecyparis Filifera-thread cypress F F Pittosporum tobira Green pittosporum pisifera spp. Chrysalidocarpus F F Areca palm Japanese pittosporum lutescens C.F F Clevera japonica Cleyera, Japanese Tobira Pink breath of heaven F Wheeler's dwarf Coleonema C,Fpulchrum pittosporum Sibirica-Siberian Cornus alba F Platycladus orientalis Arborvitae, Oriental C,F dogwood Cornus kousa Dogwood, kousa C,F Plumbago ariculata Blue cape plumbago F Cornus stolonifera C.F Flaviramea-yellowtwig Podocarpus Yewpine macrophyllus dogwood F F Potentilla fragiformis Cotoneaster Praecox-early cotoneaster Cinquefoil adpressus Cotoneaster Cotoneaster, cranberry C,F Potentilla fruticosa Cinquefoil C,Fapiculatus F F Cotoneaster Cotoneaster, brightbead Protea neriifolia Protea buxifolius F Pyracantha coccinea Firethorn, scarlet C.FCotoneaster Cotoneaster, Pyrenees congestus C,F C.F Cotoneaster Cotoneaster, bearberry Pyracantha, fortuneana Lolendei Monrovia dammeri pyracantha F Cotoneaster Himalayan cotoneaster Monon pyracantha C,Fhimalayan Cotoneaster Cotoneaster, rock C,F Red elf hybrid C,Fpyracantha horizontalis Cotoneaster lacteus Cotoneaster, parney C,F Rutgers hybrid C,F pyracantha F Cotoneaster Cotoneaster, rockspray Santa Cruz pyracantha C,Fmicrophyllus Willowleaf cotoneaster C,FCotoneaster Victory pyracantha C,Fsalicifolia

F

Pyracantha skoidzumi

Cytisus praecox

Hollandia-warminster

broom

C,F

Firethorn, formosa



Shrubs	Recommended Trea M F = Field G C = Container G	ethod Frown	Shrubs (continued)	Recommended Tre  F = Field  C = Container	Aethod Grown
Scientific Name	Common Name		Scientific Name	Common Name	
Cytisus scoparius Dasylirion wheeleri	Lena-Scotch broom Sotol, desert spoon	F F	Pyracantha, fortuneana Rhaphiolepis indica	Firethorn Enchantress-Moness	C,F F
Deutzia crenata	Nakiana-dwarf deutzia	F		rhaphiolepis Rhaphiolepsis (India hawthorn)	, C,F
Dodonaea viscose	Hopseedbush, clammy	F		Springtime-Monme rhaphiolepis	F
	Hopseed bush	F	Rhaphiolepis ovata	Roundleaf rhaphiolepis	F
Escallonia exoniensis	Escallonia	C,F	Rhipsalidopsis gaertneri	Eastercactus	C,F
Euonymus alata	Euonymus, winged	F	Rhododendron calendulaceum	Flame azalea	F
Euonymus fortunei	Canadale gold euonymus	C,F	Rhododendron campylocarpum	Butterfly rhododendron	F
	Emerald'n gold euonymus	C,F	Rhododendron carolinianum x daurium	PJM rhododendron	F
	Euonymus, stringybark	C,F	Rhododendron - catawbiense	Catawba album rhododendron	C,F
	Wintercreeper	C,F		Catawba rhododendron	C,F
Euonymus japonica	Euonymus, evergreen	C,F		Lord Roberts rhododendron	C,F
Euonymus	Silver king euonymus Spreading euonymus	F F	Rhododendron forrestii	Rocket rhododendron Elizabeth	C,F F
kiatschovica Euonymus vegetus	Bigleaf wintercreeper	C,F	x griersonianum Rhododendron hybrid	rhododendron American	F
Fatshedera lizei	Fatshedera	C,F	spp.	rhododendron English Roseum	F
Fatsia japonica	Japanese aralia	C,F		rhododendron Nova Zembla rhododendron	F
Felicia amelloides	Blue marguerite	C,F		Scintillation rhododendron	F
Forsythia intermedia	Forsythia, border	F	Rhododendron impeditum	Rhododendron	F
Gardenia jasminoides	Gardenia	C,F	Rhododendron indica	Formosa azalea	C,F
Genista pilosa	Woadwaxen	F		Waucabusa azalea	C,F
Hibiscus rosa- sinesis	Ross Estey-hibiscus	F	Rhododendron kerume	Coral bells azalea	C,F
FF17 1	Hibiscus, Chinese	F		Hino crimson azalea	C,F
Hibiscus syriacus	Rose of Sharon, Red Bird	F		Hino pink azalea	C,F
	Rose of Sharon, Red Heart	F		Snow azalea	C,F
	Rose of Sharon, Woodbridge	F	Rhododendron maximum	Rhodie max (rosebay)	C,F
	Rose-of-Sharon	F	Rhododendron	Rhododendron	F



**Shrubs** 

## Shrubs (continued)

# Recommended Treatment Method F = Field Grown C = Container Grown

Recommended Treatment
Method
F = Field Grown
C = Container Grown

Scientific Name	Common Name		Salantifia Nama	Common Name	
Scientific Name	(Shrubalthea)		Scientific Name mucronulatum	Common Name	
Ilex aquifolium	Balkans holly	F	Rhododendron satuski	Gumpo pink azalea	F
• -	Gold coast holly	F		Higasa azalea	F
	Holly, English	F	Rhododendron spp.	Azalea	C,F
Ilex aquipernyi	San Jose holly	C,F	••	Rhododendron	C,F
Ilex cornuta	Dwarf Burford holly	C,F	Rhododendron spp. Hybrids	Carror azalea	C,F
	Holly, Chinese	C,F	119011113	Girard Roberta azalea	F
Ilex crenata	Compacta-dwarf Japanese	C,F		Golden flare exbury	F
nex creman	holly	O,1		azalea	•
	Convexa holly	C,F	Rhus lancea	Sumac, African	C,F
	Helleri-Heller's Japanese	C,F	Rosa rugosa	Ramanas rose	F
	holly		_		
** * * *	Holly, Japanese	C,F	Rosmarinus officinalis	Rosemary	F
Ilex glabra	Nordica-inkberry holly	F	Senecio cineraria	Dusty miller	C,F
Ilex meserveae	Blue boy holly	F	Spiraea vanhouttei	Bridal wreath	F
	Blue girl holly	F	Syringa vulgaris	Lilac, common	C,F
	Ebony magic holly	F	Syzgium paniculata	Brush cherry	C,F
Ilex vomitoria	Nana-dwarf yaupon holly	C,F	Taxus cuspidate	Yew, Japanese	F
	Pendula-weeping yaupon holly	C,F	Taxus media	Yew	F
	Yaupon holly	C,F	Thuja occidentalis	Arborvitae, American	C,F
Juniperus chinensis	Media-old gold juniper	C,F	•	Emerald arborvitae	F
Juniperus conferta	Emerald sea shore juniper	F		Globosa-globe arborvitae	F
Juniperus horizontalis	Huntington blue juniper	C,F		Little giant-dwarf arborvitae	F
7507 1207114113	Wiltonii-blue carpet	C,F		Nigra-dark American	F
	juniper	<b>O,1</b>		arborvitae	•
Juniperus	Nana-dwarf Japanese	C,F		Pyramidalis arborvitae	F
procumbens	garden juniper	C,1		1 yranndans arborvitae	•
Juniperus prostrata	Prostrata juniper	C,F		Rheingold arborvitae	F
Juniperus sabina	Broadmoor juniper	F		Woodwardii arborvitae	F
Jumperus suoma	Foemina-Hicks juniper	F	Thuja orientalis	Aureus nana-dwarf	F
	i ocimna-ineks jumper	•	Truja Oriemans	golden arborvitae	•
	Tamariscifolia-Tam	F		Minima glauca-dwarf	
		1		arborvitae	
Iminamie	juniper Emerald green juniper	F	Thuja plicata	Red Cedar, Western	F
Juniperus	Emeratu green Jumper	1.	тија рисана	Red Cedal, Western	1.
scopulorum	Tunina	C,F	Tuankalannamuum	Star isomina Chinasa	F
Juniperus spp.	Juniper		Trachelospermum jasminoides	Star jasmine, Chinese	
Juniperus squamata	Blue juniper	F	Veitchia merrilli	Christmas palm	F
	Blue star juniper	F	Viburnum carlesii	Koreanspice viburnum	C,F
	Parsonii juniper	F	Viburnum davidii	David viburnum	F
Justicia	Shrimp plant	C,F	Viburnum japonicum	Viburnum	F
brandegeana					
Justicia spicigera	Honeysuckle, Mexican	F	Viburnum judd (V X	Viburnum	C,F
			Judii)		
Kalmia latifolia	Laurel, mountain	F	Viburnum opulus	Common snowball	F



Shrubs	Recommended T F = Fid C = Contain	Method eld Grown	Shrubs (continued)	Recommended Trea M F = Field ( C = Container (	lethod Grown
Scientific Name	Common Name		Scientific Name sterile	Common Name viburnum	
Lagerstroemia indica	Crape myrtle	C,F	Viburnum plicatum tomentosum	Doublefile viburnum	F
Lavandula angustifolia	English lavender	C,F	Viburnum setigerum	Tea viburnum	. F
Leucothoe axillaries	Leucothoe, coast	F	Viburnum suspensum	Virburnum, Sandankwa	F
Leucothoe fontanesiana	Leucothoe, drooping	F	Viburnum tinus	Viburnum, Laurustinus	C,F
Ligustrum amurense	Privet, amur	C,F		Compactum-spring bouquet viburnum	F
Ligustrum japonicum	Privet, Japanese	C,F	Viburnum tinus compactum	Spring bouquet viburnum	F
	Yellow tip ligustrum	C,F	Viburnum trilobum compactum	Dwarf cranberry bush	F
Ligustrum lucidum	Privet, glossy	C,F	Viburnum x pragense	Viburnum	F
Ligustrum ovalifolium	California privet	F	Weigela florida	Bristol ruby weigela	F
Ligustrum texanum	Howardi privet	F		Java red weigela	F
· ·	Wax leaf privet	F		Minuet weigela	F
Ligustrum vicaryi	Privet, golden	C,F		Weigela, oldfashioned	F
2.5	Vicary golden privet	C,F	Xylosma congestum	Xylosma	F
Livistona chinensis	Chinese fountain palm		Yucca elata	Yucca, soaptree	C,F
Lonicera	Winter honeysuckle	F	Yucca recurvifolia	Yucca, pendulous	F.
fragrantissima	w meet noneysuckie	r	racca recurryona	rucca, pendulous	•
	GROUND	COVE	RS/PERENNIAL	S	
Ground Covers/Perennials			Ground Covers/Perennials (continued)		
	Recommended 7	Treatment Method	,	Recommended Trea M	tment lethod
	F = Fie C = Contain	eld Grown er Grown		F = Field C C = Container C	
Scientific Name Agapanthus africanus	Common Name Lily-of-the-Nile	; C,F	Scientific Name Hosta spp.	Common Name Lily, plantain	C,F
Ajuga spp.	Carpet bugle	F	Heuchera micrantha	Coral bells	C,F
Arctotheca calendula	Cape weed	F	Hypericum spp.	St. Johnswort	C,F
Asparagus retrofractus	(No common name)	C,F	Iberis sempervirens	Evergreen candytuft	C,F
Asparagus varieegata	Tree fern	C,F	Lampranthus spectabilis	Trailing iceplant	F
Aster novae-angliae	New England aster	C,F	Leptospermum scaparium	New Zealand teatree/Manuka	C,F
Aster novi-belgii	New York aster	C,F	Limonium perezii	Statice/Sea lavender	C,F



Ground Ground Covers/Perennials Covers/Perennials (continued) Recommended Treatment **Recommended Treatment** Method Method F = Field Grown F = Field Grown C = Container Grown C = Container Grown Scientific Name **Common Name** Scientific Name Common Name F Athyrium Japanese painter fern C,F Liriope gigantean White lily turf nipponimcum C.F Brassica oleracea C,F Liriope muscari Lilac beauty lily turf Wild cabbage Callistepheus China aster C,F Majestic lily turf C,F chinensis Campanula elatines Bellflower C.F Monroe white lily turf C.F Ice plant, largeleaf (see Carpobrotus edulis F Silvery sunproof lily C.F label) Clvtostoma Trumpet vine, violet C,F Variegated liriope lily C.F callistegioides Cortaderia selloana F C.F Pampas grass Big blue lily turf False Mexican heather C.F C.F Cuphea hyssopifolia Lobelia erinus Edging lobelia White iceplant Delosperma alba F Lonicera japonica Honeysuckle, Japanese F F Dietes vegeta Fortnight lily C,F Mesembryanthemum Ice plant (see label) crystallinum Ophiopogon japonicus F Digitalis **Foxglove** C,FMondo grass mertonensis Doronicum Leopard's bane C.F Osteospermum Daisy, trailing African F cordatum fruticosum F Drosanthemum Trailing rosea iceplant F Pachysandra terminalis Japanese spurge floribundum C.F C.F Erianthus ravennae Hardy pampas grass Pennisetum setaceum **Fountaingrass** Blue fescue Polystichum Tassel fern C,F Festuca ovina glauca polyblepharum Gaillardia Blanket flower C,F Sedum brevifolium Stonecrop C.F grandiflora C,F Gazania rigens Gazania, trailing C.F Sedum kamtschaticum Stonecrop leucolaena F C,FGazania Sedum spurium Stonecrop, tworow Gazania spp. Hedera canariensis F Tulbaghia vioilacea C,F Ivy, Algerian Society garlic F Verbena rigida C.F Hedera helix Ivy, English Veined verbena C,F C.F Heliotropium Common heliotrope Veronica spp. Speedwell fragrans C.F F Hemerocallis spp. Davlily Vinca major Periwinkle, bigleaf F Hosta lancifoila Albo-marginata hosta C,F Vinca minor Periwinkle, dwarf Lily, plantain C.F Hosta spp. **FLOWERS** Flowers (continued) **Flowers** Recommended Treatment Recommended Treatment Method Method F = Field Grown F = Field Grown C = Container Grown C = Container Grown Scientific Name Common Name Scientific Name Common Name

Impatiens wallerana

Yarrow

Achillea spp.

F

Impatiens (Busy lizzie)

Flowers	Flowers (continued)
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	2 20 0 5 (00	
Recommended Treatment		Recommended Treatment
Method		Method
F = Field Grown		F = Field Grown
C = Container Grown		C = Container Grown

Scientific Name	Common Name	_	Scientific Name	Common Name	_
Antirrhinum majus	Snapdragon	F	Iris spp.	Iris, bearded	F
Caladium bicolor	Caladium, fancy leafed	F	Liatris spicata	Blazing star	C,F
Chrysanthemum spp.	Chrysanthemum	C,F	Pelargonium hortorum	Geranium	F
Cladium bicolor	Fancy-leaved caladium	F	Petunia spp	Petunia	_ C,F
Coreopsis lanceolata	Coreopsis	F	Portulaca grandiflora	Moss, rose	F
Coreopsis verticulata	Threadleaf coreopsis	C,F	Ranunculus asiaticus	Ranunculus, Persian	F
Dianthus barbatus	Sweet William	F	Rosa spp.	Rose	F
Dianthus gratianopolitanus	Cheddar pink	C,F	Rudbeckia fulgida	Blackeyed susan	C,F
Dicentra spectabilis	Bleeding heart	C,F	Rudbeckia hirta	Daisy, gloriosa (black- eyed Susan)	F
Dimorphotheca spp.	Marigold, cape	F	Salvia spp.	Salvia (Sage)	F
Echinacea purpurea	Coneflower, purple	C,F	Stokesia laevis	Aster, stokes	F
Evolvulus nuttallianus	Blue daze	C,F	Strelitzia reginae	Bird of paradise	F
Geum quellyon	Geum	F	Tagetes spp.	Marigold	F
Gladiolus hortulanus	Gladiolus	F	Viola wittrockiana	Pansy	F
Gypsophila paniculata	Baby's breath	F	Zinnea elegans	Zinnia, common	F

## **NON-BEARING\* TREES AND VINES**

	Recommended Treatment Method		Recommended Treatment Method
	F = Field Grown		F = Field Grown
	C = Container Grown		C = Container Grown
almond	F	kiwi	F
apple	· <b>F</b>	kumquat	C,F
apricot	F	lemon	F
avocado	F	loganberry	F
blackberry	F	macadamia nut	F
blueberry	F	nectarine	F
boysenberry	F	olive	F
cherry, sour	<u>F</u> .	orange	C,F
cherry, sweet	<b>F</b>	peach	F
currant	F	pear	F
dewberry	F	pecan	C,F
elderberry	F	pistachio	F
fig	<b>F</b>	plum	F
filbert	F	pomegranate	F
gooseberry	F	prune	F
grape, American	F	raspberry	F
grape, European	F	walnut, black	F
grapefruit	F	walnut, English	F
	s are defined as those that will not bear fr	· · · · · · · · · · · · · · · · · · ·	after treatment.



## ORNAMENTAL BULBS

Oryzalin G-Pro Herbicide may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth, and tulip. Apply Oryzalin G-Pro Herbicide to the soil surface 2-4 weeks after planting but prior to the emergence of annual weeds. For fall planted bulbs, apply Oryzalin G-Pro Herbicide again in late winter or early spring to weed-free soil surfaces.

**Broadcast Application Rates** 

		Oryzalin G-Pro Herbicide		Minimum	Total Amount
Time of Application	Soil Texture	(qts./acre)	(fl. oz./1,000 sq. ft.)	Time Between Applications (months)	Allowed Per Year (qts./acre)
Fall	Coarse	0.75	0.5	3	1.5
Fall	Medium and Fine	1.5	1.0	3	2.25
Feb March	All Soil Textures	0.75	0.5	3	2.25

## **Special Use Precautions:**

- Do not apply to tulip plants that have emerged to a height greater than ¾ inch.
- Do not apply to gladioli corms prior to emergence or less than one (1) inch in diameter.

## SHADEHOUSE AREAS

Oryzalin G-Pro Herbicide may be applied to drainage areas under benches 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 3 weeks prior to enclosure of greenhouse or poly-type structures.

## CHRISTMAS TREE PLANTATIONS

## Oryzalin G-Pro Herbicide Alone

Apply Oryzalin G-Pro Herbicide as a directed spray to the soil surface or as an overtop spray to established plantings of field grown Christmas tree species including fir (Abies spp.), pine (Pinus spp.), and spruce (Picea spp.). Follow all instructions provided in the "General Information" section of this label.

**Broadcast Application Rate** 

	Oryzalin G-Pro Herbicide M		Minimum	Total Amount
Length of Control	(qts./acre)	(fl. oz./1,000 sq. ft.)	Time Between Applications (months)	Allowed Per Year (qts./acre)
2-4 months	2	1.5	2	8
4-8 months	4	3	2	8

## Tank Mix Combinations

Tank mix combinations of Oryzalin G-Pro Herbicide plus other labeled herbicides may be used as directed for overtop sprays 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.

Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup>: Apply tank mix combinations of Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup> only as directed sprays in Christmas tree plantings. When applied according to use directions, Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup> will provide postemergence control of susceptible weed species listed on the label for Roundup<sup>®</sup> and residual preemergence control of susceptible weed



species listed on the label for Oryzalin G-Pro Herbicide. Refer to the label for Roundup<sup>®</sup> for specific use directions, precautions, and limitations before use.

## **Special Use Precautions:**

Do not apply to Douglas-fir (*Pseudotsuga menziesii*). Do not apply to seedbeds or seedling transplant beds. Apply only to established plants 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.

## NONCROPLAND AREAS AND INDUSTRIAL SITES

## Noncropland Areas - Tank Mix Combinations

Tank mix combinations of Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup> and many other labeled herbicides may be used to control undesirable vegetation in noncropland areas such as roadsides, rights-of-way, etc. When applied according to use directions, these thank 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.

**Broadcast Application Rates** 

	Oryzalin G-	Pro Herbicide	Minimum	Total Amount Allowed Per Year (qts/acre)	
Length of Control	(qts./acre)	(fl. oz./1,000 sq. ft.)	Time Between Applications (months)		
2-4 months	2	1.5	2	6	
4-8 months	4	3	4	12	
8-12 months	6	4.5	8 -	12	

## Industrial Sites – Tank Mix Combinations

Tank mix combinations of Oryzalin G-Pro Herbicide plus Roundup<sup>®</sup>, Spike<sup>™</sup> herbicide, and many other labeled herbicides may be used as overtop sprays to control existing vegetation on industrial sites such as utility substations, highway guard rails, sign posts, and delineators. 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.

## WARM SEASON TURFGRASSES

Oryzalin G-Pro Herbicide may be applied as a preemergence treatment for control of annual grasses and certain broadleaf weeds in established warm season turf including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, zoysiagrass, and established tall fescue growing in warm season areas. Established turf is defined as a dense turf having a well-anchored root system and healthy, vigorous top growth. Use Oryzalin G-Pro Herbicide only as a part of a total turf management program that includes good fertilization practices.

Oryzalin G-Pro Herbicide may be tank mixed with Gallery™ herbicide and applied preemergence to broaden the spectrum of broadleaf weed control in warm season turf. Refer to the label for Gallery™ for specific use directions, precautions, and limitations before use.

Any cultural practices that disturb the soil, such as aerification or verticutting should be done prior to application of Oryzalin G-Pro Herbicide.

Oryzalin G-Pro Herbicide will not control emerged weeds. Successful preemergence control of weeds listed on this label requires that Oryzalin G-Pro Herbicide be applied prior to weed germination and be activated by at least ½ inch of rainfall or irrigation within 21 days of application.



Oryzalin G-Pro Herbicide may injure turf that is not well established or is stressed or weakened due to unfavorable winter climatic conditions, drought, nematodes, or other factors which damage or weaken turf root systems. Apply Oryzalin G-Pro Herbicide only to healthy, well-established turf that has a well-anchored root system.

Do not apply Oryzalin G-Pro Herbicide in the spring or early summer to tall fescue turfgrass reseeded the previous fall. In such cases, apply Balan<sup>TM</sup> 2.5G granular herbicide at 60-80 pounds per acre in early summer (Round 1) and Oryzalin G-Pro Herbicide at 1.5 quarts per acre approximately eight weeks later (Round 2). Do not apply Oryzalin G-Pro Herbicide at the single application rate (2 quarts per acre) to established tall fescue; in such cases, apply 1.5 quarts per acre of Oryzalin G-Pro Herbicide in an initial application, followed by a second application of 1.5 quarts per acre 8-10 weeks later.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of Oryzalin G-Pro Herbicide will thin the overseeded grasses.

## Annual Grasses Controlled by Oryzalin G-Pro Herbicide

## **Summer Annuals:**

Common Name
barnyardgrass (watergrass)
crabgrass, large
crabgrass, smooth
crabgrass
crabgrass
Digitaria ischaemum
Digitaria spp.

crowfootgrass Dactyloctenium segyptium

foxtail, bristlegrass Setaria magna foxtail, giant Setaria faberi foxtail, green (pigeongrass) Setaria viridis foxtail, robust Setaria robusta foxtail, yellow Setaria glauca goosegrass (silver crabgrass) Eleusine indica Johnsongrass (seedling only) Sorghum halepense Lolium multiflorum ryegrass, Italian sandbur, field Cenchrus incertus

## Winter Annuals:

Common Name Scientific Name bluegrass, annual Poa annua

## Annual Broadleaf Weeds Controlled by Oryzalin G-Pro Herbicide

## **Summer Annuals:**

Common NameScientific NamecarpetweedMollugo verticillataknotweed, prostratePolygonum avicularepurslane, commonPortulaca oleracea

## Winter Annuals:

chickweed, common Stellaria media
henbit Lamium amplexicaule

## Broadleaf Weeds Suppressed by Oryzalin G-Pro Herbicide

Common Name Scientific Name groundsel, common Senecio vulgaris



spurge, prostrate woodsorrel, yellow

Euphorbia humistrata Oxalis stricta

## Application Rates, Frequency, and Timing of Application

Oryzalin G-Pro Herbicide can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for annual bluegrass (*Poa annua*) and winter annual broadleaf control.

**Broadcast Application Rates (Warm Season Turfgrasses)** 

	Oryzalin G-	Pro Herbicide	Minimum	Total Amount
Use Area	(qts./acre)	(fl. oz./1,000 sq. ft.)	Time Between Applications (months)	Allowed Per Year (qts./acre)
All (except	1.5	1	3	6
Florida)	2	1.5	3	6
Florida	1.5	1	3	4.5

## 1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 2 quarts per acre of Oryzalin G-Pro Herbicide in late winter or early spring, prior to the onset of conditions favorable for annual weed germination.

Split Application Program: As an alternative to a single application program, Oryzalin G-Pro Herbicide may be applied in a split application. This program is desirable when the initial application is made well in advance of weed germination and where weed control is desired for a longer period of time. Apply 1.5 quarts per acre of Oryzalin G-Pro Herbicide as an initial application, followed by a second application of 1.5 quarts per acre 8-10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial application of Oryzalin G-Pro Herbicide.

## 2. Annual Bluegrass (Poa annua) and Winter Annual Broadleaf Weeds

In areas of heavy annual bluegrass infestation, its elimination will result in temporary thinning of turfgrass cover. Proper fertilization, irrigation, and soil incorporated reseeding should be employed to speed the restoration of desirable turfgrass cover in areas previously occupied by annual bluegrass (see section on reseeding).

Apply Oryzalin G-Pro Herbicide as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply Oryzalin G-Pro Herbicide at 1.5 quarts per acre. If thinning of turfgrass cover is not a potential problem, Oryzalin G-Pro Herbicide may be applied at 2 quarts per acre.

#### Weed Control in Florida

In Florida, apply 1.5 quarts per acre of Oryzalin G-Pro Herbicide three times per year, or every 90-100 days, in the fall, early spring, and early summer. Do not apply more than 1.5 quarts per acre of Oryzalin G-Pro Herbicide in any single application.

## **Application Equipment**

Apply Oryzalin G-Pro Herbicide evenly over the turfgrass area. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application. For best results, use application equipment designed to uniformly broadcast liquid herbicides. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing spray uniformly.

## Reseeding

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Reseeding should be delayed for at least 90-120 days following application of Oryzalin G-Pro Herbicide.



When reseeding, it is essential that proper cultural practices such as soil cultivation and seedbed preparation, irrigation, and fertilization be followed. For satisfactory reseeding results following use of Oryzalin G-Pro Herbicide, the seeding rate should be increased and equipment designed to place seed in full contact with the soil (such as the Rogers Aero Seeder) should be employed.

## Special Use Precautions:

To avoid possible injury, do not apply Oryzalin G-Pro Herbicide to:

- Cool season turfgrass species.
- Golf course putting greens and tees or lawns containing dichondra or cool season turfgrass species.
- Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, or zoysiagrass until these turfgrasses are well established and have well-anchored root systems.
- Newly hydromulched areas of bermudagrass until such areas are well established.
- Bermudagrass variety "Sun Turf" when tank mixed with atrazine.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Gro-Pro LLC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Gro-Pro LLC and Seller harmless for any claims relating to such factors.

Gro-Pro LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Gro-Pro LLC, and Buyer and User assume the risk of any such use. GRO-PRO LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall Gro-Pro LLC or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF GRO-PRO LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL



## BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF GRO-PRO LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

Gro-Pro LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Gro-Pro LLC.

Balan<sup>TM</sup>, Gallery<sup>TM</sup>, and Spike<sup>TM</sup> are trademarks of Dow AgroSciences LLC. Roundup<sup>®</sup> is a registered trademark of the Monsanto Company. Surflan<sup>®</sup> is a registered trademark of United Phosphorus, Inc.

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Oryzalin G-Pro Herbicide is not manufactured or distributed by United Phosphorus, Inc., seller of Surflan<sup>®</sup>.



Gro-Pro LLC 2214 Hwy 44 West Inverness, FL 34453 877-637-6728

March 2, 2004

To Whom It May Concern:

RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agents for Gro-Pro, LLC (EPA Company Number 79676), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Randall V. Canady

Vice President, Marketing and Business Development

cc: Pyxis Regulatory Consulting, Inc.

Bandell V. Conaty

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WAR COUNTY

OF THE CO

NOTARIZED ON THE 3RD DAY
OF MARCH 2004
EXPIRES 10/16/07



4110 136<sup>th</sup> St. NW Gig Harbor, WA 98332

Phone: 253-853-7369 Fax: 253-853-5516 Email: www.PyxisRC.com

June 21, 2005

#### COURIER DELIVERY

Joanne Miller (PM23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1801 South Bell Street
Arlington, VA 22202-4501

RE: Gro-Pro LLC – Oryzalin G-Pro Herbicide (EPA Reg. No. 79676-13) Notification of Minor Label Revisions per PRN 98-10

Dear Ms. Miller,

On behalf of Gro-Pro LLC please find the enclosed notification of minor label revisions for Gro-Pro's Oryzalin G-Pro Herbicide (EPA Reg. No. 79676-13). Gro-Pro has revised the statement "Contains the same active ingredient as Surflan® by United Phosphorus, Inc" on the label front panel in accordance with the OGC letter signed by Robert Perlis (enclosed). Gro-Pro also added the statement "Oryzalin G-Pro Herbicide is not manufactured or distributed by United Phosphorus, Inc., seller of Surflan®" to the Oryzalin G-Pro Herbicide label (last page).

In support of this notification, we submit the following documents:

- 1. Completed Application for Registration (EPA Form 8570-1)
- 2. One (1) copy of the Oryzalin G-Pro Herbicide labeling with tracked changes
- 3. One (1) copy of the Oryzalin G-Pro Herbicide labeling with changes incorporated
- 4. May 5, 2005 Letter from the Office of General Counsel supporting label changes
- 5. Letter of Authorization

Please feel free to call me if you have any questions or need any additional information.

Michael Kellogg

Sincerely

Enclosures