

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Rebecca A. Clemmer Regulatory Manager United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 AUG 17 2009

Subject: Notification(s) for Label Revisions under PRN 98-10, PRN 2007-4 and

PRN 2001-5

Dear Ms. Clemmer:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10, 2007-4 and 2001-5 dated, July 15, 2009 for:

EPA Registration 70506-45

XL₂G

The Registration Division (RD) has conducted a review of the request(s) for applicability under PRN 98-10, 2007-4 and 2001-5 and finds that the label changes requested fall within the scope of PRN-98-10, 2007-4 and PRN-2001-5. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-8893.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

Form Approved, OMB No. 2070-0060, Approval expires 5-31-98 Please read instructions on reverse before completing form **OPP Identifier Number** Registration **United States** Amendment **Environmental Protection Agency** Other Washington, DC 20460 Application for Pesticide – Section 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classification J. Miller 70506-45 4. Company/Product (Name) PM# Restricted None 23 United Phosphorus, Inc/XL 2G 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) United Phosphorus, Inc. (b)(i), my product is similar or identical in composition and labeling 630 Freedom Business Center, Suite 402 NOTIFICATION King of Prussia, PA 19406 EPA Reg No. AUG 17 2009 **Product Name** Check if this is a new address Section - II Amendment - Explain below Final printed labels in response to Agency letter dated Resubmission in response to Agency letter dated "Me Too" Application Notification - Explain below Other - Explain below X Explanation: Use additional page(s) if necessary. (For Section I and Section II.) Notification of label change per PR Notice 2007-4 and 2001-5. This notification is consistent with the guidance in PRN 2007-4 and 2001-5 and the requirements of EPA's regulations at 40CFR§§156.10, 156.140, 156.144, 156.146, 156.156. No other changes have been made to the labeling or the CSF for this product. I understand that it is a violation of 18 USC Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the sections above, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Section III 1. Material This Product Will be Packaged in: Water Soluble Packaging Child-Resistant Packaging Unit Packaging Type of Container Yes Yes Metal Yes Plastic х No No X х No х Glass If "Yes" *Certification must No. per If "Yes No. per Paper Unit Packaging wgt. container Package wgt container Other (Specify) be submitted 4. Size(s) Retail Container 3. Location of Net Contents Information 5. Location of label directions Container 50 lbs On Label X On Label accompanying product 6. Manner in Which Label is Affixed to Product Lithograph Other Paper glued Stenciled Section IV 1. Contact Person (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Telephone No. (Include Area Code) Name Title Rebecca A. Clemmer Regulatory Manager 610-491-2828 6. Date Application Certification Received 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 000 both under applicable law (Stamped) 2. Signature 3. Title 0000 Regulatory Manager 5. Date 4. Typed Name 7/15/09 Rebecca A. Clemmer

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

.**

White - EPA File Copy (Original) Yellow - Applicant Copy

0000



Page 1

AUG 17 2009

GROUP	6 5 115	3	HERB	CIDE

XL 2G

Contains oryzalin, the active ingredient in Surflan herbicides. A selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container grown ornamentals
- Landscape ornamentals
- Nursery stock
- Ground covers
- Established flowers
- Ornamental bulbs
- Non-bearing fruit and nut trees and nonbearing vineyards
- Non-bearing berries
- Christmas tree plantations
- Non-cropland
- · Established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass)

Active Ingredients:

benefin: N-butyl-N-ethyl- α , α , α -trifluoro-2,6-dinitro- p -toluidine	
oryzalin: 3,5-dinitro-N ⁴ ,N ⁴ -dipropylsulfanilamide	1.0%
Other Ingredients	
Total	
Contains 1 pound active ingredient per 50 pound bag	

Keep Out of Reach of Children CAUTION **PRECAUCION**

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

First Aid

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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call the Rocky Mountain Poison Control Center at 1-866-767-5089673-6671.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

Notice: Read the entire label. Use only according to label directions. Before using this product, read the Conditions of Sale and Limitation of Warranty and Liability at end of label bookiet. If terms are unacceptable, return at once unopened. 0 0 G Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing. Manufactured for: 00000 (Logo) United Phosphorus, inc. EPA Reg. No. 70506-45 United Phosphorus, Inc. EPA Est. No. Net Weight: ___ 630 Freedom Business Center, Suite 402

King of Prussia, PA 19406 1-800-438-6071 • www.upi-usa.com

Precautionary Statements

Hazards to Humans and Domestic Animals CAUTION

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

Personal Protective Equipment (PPE)

Applicators, loaders 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/PPE 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 and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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 or pets, 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 specification 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.

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:

- Coveralis
- Chemical-resistant gloves made of any waterproof material
- 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: Do not enter or allow other people or pets to enter the treated area until dusts have settled. If watering-in is required after the application, except for those people involved in the watering-in, do not enter or allow other people or pets to enter the treated areas until the watering-in is complete and the surface is dry.

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, contain material 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: Nonrefillabel container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

XL 2G herbicide is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container and landscape ornamentals, nursery stock, ground covers, established tall fescue and warm season turf, established flowers, ornamental bulbs, non-bearing fruit and nut trees and nonbearing vineyards, non-bearing berries, Christmas tree plantations, non-cropland and established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass). Apply XL 2G prior to germination of target weeds or immediately after cultivation. Length of weed control will vary with rate of XL 2G applied, weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed.

General Use Precautions and Restrictions

Do not aerially apply this product.

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

Landscape and field grown ornamentals: maximum number of applications per year is 2. Ornamental bulbs: for fall application to coarse soils - maximum number of applications per year is 2. Ornamental bulbs: applications February through March, all soils – maximum number of applications 0 0 0 0 0 0 0 0 0 0 0 0 per year is 3.

Christmas tree plantations: maximum number of applications per year is 2. Noncrop areas: maximum number of applications per year is 2.

XL 2G does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly

6/28

mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. When applied to turf, this product must be watered in as soon as possible after application to dissolve the granules. A single rainfall or irrigation of ½ inch or more is required after product application.

For other applications, a single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation is required to activate XL 2G. If rainfall or irrigation has not occurred within 21 days of application and tillage is possible, XL 2G may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate XL 2G may result in erratic weed control. Do not apply when wind conditions favor drift of XL 2G granules from the target area.

Users who wish to use XL 2G on plant species not recommended on this label may determine the suitability for such uses 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 to 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 use of XL 2G on plant species not recommended on this label.

Application Directions

Apply XL 2G using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

Application Techniques for Applying XL 2G

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type
 rotary applicator such as a whirlybird or cyclone unit is recommended. For hand held units, walk and
 turn the crank at a constant rate of speed.
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, difficult to treat areas. Carefully measure the amount of product needed to avoid over-application.

Approved Uses

Established[†] Container Grown Ornamentals, Established Tall Fescue and Warm Season Turfgrasses, Landscape Ornamentals, Nursery Stock, Ground Covers, Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards, Non-bearing Berrieg, Christmas Tree Plantations, and Non-cropland

XL 2G is recommended as a preemergence treatment for control of certain annual grasses and container grown ornamentals, landscape ornamentals, nursery stock, ground, covers, established tall fescue, warm season turfgrasses, established flowers, ornamental buibs, non-bearing fruit and nut trees and non-bearing vineyards, non-bearing berries, Christmas tree plantations, and non-cropland. Apply XL 2G prior to germination of target weeds, or immediately after cultivation.

Broadcast Application Rates:

	XI	_ 2G	Minimum Time Between Applications	Total Amount Allowed Per Year
Labeled Use Site	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
Landscape Ornamentals	200	4.6	2	400
Field-grown and container-grown ornamentals	300	6.9	4	600

Note: Refer to the "General Information" section of this label for general use precautions and information on application.

Special Use Precautions

To avoid possible plant injury, do not apply XL 2G to:

- plants or areas in greenhouses or other enclosed structures.
- plants that will bear fruits, berries or nuts within 12 months of application.
- nursery seedbeds or forest or Christmas tree seedling transplant beds.
- · unrooted liners or cuttings that have been planted in pots for the first time.
- · pots less than four inches wide.
- ground covers until they are established and well rooted.
- ornamental plantings where the likelihood of runoff onto lawn areas containing dichondra or cool season turfgrass species exists.
- · Do not apply XL 2G to the following plant species or injury may occur:

Begonia spp. (begonia)

Coleus hybridus (coleus)

Deutzia gracilis (slender deutzia)

Pseudotsuga menziesii (Douglas-fir)

Thuja occidentalis 'Techny' (Techny arborvitae)

Tsuga canadensis (eastern hemlock)

Ice Plant: When establishing unrooted ice plant (*Mesembryanthemum crystallinum* and *Carpobrutus edulis*) on coarse soils, do not exceed the 200 lb/acre rate of XL 2G or crop injury may occur. After the ice plant is well established, a second application may be made.

†Definition of established plantings: 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. Do not apply to seedbeds or seedling transplant beds.

unlisted plant species: Users who wish to use XL 2G on plant species not recommended on this label may determine the suitability for such uses 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 to 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 use of XL 2G on plant species not recommended on this label.

Weeds Controlled or Suppressed by XL 2G

Weeds controlled when XL 2G is applied at a rate of 200 to 300 pounds per acre (4.6 to 6.9 ; ; pounds per 1000 sq ft).

Annual Grasses



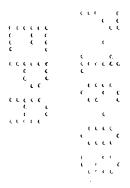
Common Name	Scientific Name	Common Name	Scientific Name
barley, little	Hordeum pusillum	lovegrass, Mexican	Eragrostis mexicana
barnyardgrass	Echinochloa crus-galli	lovegrass, orcutt	Eragrostis orcuttiana
bluegrass, annual	Poa annua	oat, wild	Avena fatua
crabgrass	<i>Digitaria</i> spp	panicum, browntop	Panicum fasciculatum
crowfootgrass	Dactyloctenium	panicum, fall	Panicum
	aegyptium		dichotomiflorum
cupgrass, southwestern	Eriochloa gracilis	panicum, Texas	Panicum texanum
foxtail	Setaria spp.	ryegrass, Italian	Lolium multiflorum
goosegrass	Eleusine indica	sandbur, field	Cenchrus incertus
johnsongrass (seedling	Sorghum halepense	signalgrass	Brachiaria spp.
only)		sprangletop, red	Leptochloa filiformis
junglerice	Echinochloa colonum	witchgrass	Panicum capillare

Broadleaf Weeds

Common Name	Scientific Name	Common Name	Scientific Name
bittercress	Cardamine oligosperma	pigweed	Amaranthus spp.
carpetweed	Mollugo verticillata	puncturevine	Tribulus terrestris
chickweed, common	Stellaria media	purslane, common	Portulaca oleracea
fiddleneck, coast	Amsinckia intermedia	pusley, Florida	Richardia scabra
filaree, redstem	Erodium cicutarium	rocket, London	Sisymbrium irio
filaree, whitestem	Erodium moschatum	rockpurslane, desert	Calandrinia ciliata
groundsel, common	Senecio vulgaris	shepherdspurse	Capsella bursa-pastoris
henbit	Lamium amplexicaule	spurge, prostrate	Euphorbia humistrata
knotweed, prostrate	Polygonum aviculare	woodsorrel, yellow	Oxalis stricta
lambsquarters,	Chenopodium album		
common			

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 200 to 300 pounds per acre (4.6 to 6.9 pounds per 1000 sq ft).

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
mallow, common	Malva neglecta		pensylvanicum
milkweed, climbing	Sarcostemma	sowthistle, annual	Sonchus oleraceus
	cynanchoides	spurge, spotted	Euphorbia maculata
morningglory	Ipomoea spp.	teaweed (prickly sida)	Sida spinosa
mustard, black	Brassica nigra	velvetleaf	Abutilon theophrasti
mustard, wild	Brassica kaber	wheat, volunteer	Triticum spp.



XL 2G May Be Used On The Following Established Plant Species: (Note limitations on recommended treatment methods.)

Trees

Scientific Name/Common Name F = Field Grown	11663	Recommended Treatment Method: C = Container Grown		
Abies balsamer Balsam fir Abies concolor White fir Abies grandis Fraser fir Fraser fir Abies sprandis Grand fir Abies lasiocarpa Alpine fir Abies veitchi Veltch fir Abies veitchi Veltch fir Abius flowering maple Luteus flowering maple Frangerine flowering maple Franderine flowering maple Fr	Scientific Name/Common Name			
Balsam fir Abies concolor White fir F Abies fraseri Fraser fir F Abies grandis Grand fir F Abies socicarpa Alpine fir F Abies veitchi Veitch fir F Abies laisocarpa Alpine fir F Abies veitchi Veitch fir F Abies sociang F Albies veitchi Veitch fir F Abies veitchi Veitch fir F Abution hybridium Albus flowering maple F Luteus flowering maple F Acseus flowering maple F Acseus flowering maple F Acer sp. maple F Arecastrum romanzoffianum Queen palm F Betula papyrifera Paper birch F Betula papyrifera Paper birch F Betula papuri flowering maple White birch F Betula papuri flowering flower		1 1014 010111		
Abies concolor White fir White fir Fasser i Fraser fir Abies grandis Grand fir Abies lasiocarpa Alpine fir Abies veitchi Veitch fir Abution hybridum Albus flowering maple Fasseus flowering flowering Fasseus flowering		F		
White fir Abies fraser i Fraser fir Abies grandis Grand fir Abies lasiocarpa Alpine fir Abies veitchi Veitch fir Abus veitchi Veitch fir Abus flowering maple Luteus flowering maple Fraser flowering maple Luteus flowering maple Fraser flowering maple Fracer spp. Fraser flowering maple Fraser flower flowering maple Fraser flower		•		
Abies fraser ir Fraser fir Fraser fir Fraser fir Fraser fir Fraser fir Grand fir Fraser fir Fraser fir Fraser fir Grand fir Fraser f		F		
Fraser fir Abies grandis Grand fir Abies lasiocarpa Alpine fir Abies veitchi Veitch fir Abutilon hybridum Albus flowering maple Luteus flowering maple Fraser flowering maple Fraser flowering maple Fraser flowering maple Frangerine flowering flowering Frangerine flowering Frangerine flowering flowering flowering Frangerine flowering flower		•		
Abies grandis Grand fir FAbies lasiocarpa Alpine fir Abies veitchi Veitch fir Abutilon hybridum Albus flowering maple Luteus flowering maple FRoseus flowering flowering maple FROSEUS flowering flo		F		
Grand fir Abies lasiocarpa Alpine fir Abies veitchi Veitch fir Abution hybridum Albus flowering maple Luteus flowering maple FROSEUS flowering flowering maple FROSEUS flowering flowe		•		
Abies lasiocarpa Alpine fir Abies veitchi Veitch fir Abution hybridum Albus flowering maple Luteus flowering maple Euteus flowering maple Roseus flowering maple Fasseus flowering maple Fevesurius red flowering maple Fevesurius flowering maple Fevesurius red flowering maple Fevesurius flowering maple Fevesurius flowering maple Fevesurius red flowering maple Fevesurius flowerius floweriu		F		
Alpine fir Abies veitchi Veitch fir Abutilon hybridum Albus flowering maple Luteus flowering maple Foresus flowering maple Foresus flowering maple Tangerine flowering maple Foresus flowering flo		•		
Abies veitchi Veitch fir Abutilon hybridum Albus flowering maple Luteus flowering maple Foseus flowering flowering Foseus flowering		F		
Veitch fir Abutition hybridum Albus flowering maple Luteus flowering maple Roseus flowering maple Fasseus flowering flowering flowering Fasseus flowering flowering flowering Fasseus flowering		•		
Abutilon hybridum Albus flowering maple Luteus flowering maple Roseus flowering maple Fangerine flowering maple Vesuvius red flowering maple Facer spp. maple Farecastrum romanzoffianum Queen palm Fatula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Caratonia siliqua Carob Cercidium floridum Blue palo verde Feduna Canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Graciliis-slender Hinoki cypress Fhamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress Fchamaecoyaario sisifera Sawara-false cypress Squarrosa-moss cypress Fchamaecdorea cataractarum Cat palm Filicoides-feractarum Cat palm		F		
Albus flowering maple Luteus flowering maple Roseus flowering maple Tangerine flowering maple Vesuvius red flowering maple Acer spp. maple Arecastrum romanzoffianum Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula nigra River birch Bucida buceras Black olive Ceratonia siliqua Carob Fecracidum floridum Blue palo verde Cercis canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Graciliis-slender Hinoki cypress Filicoides-fernspray cypress Squarrosa-moss cypress Schamaedorea cataractarum Cat palm Fe		·		
Luteus flowering maple Roseus flowering maple Fasseus flowering maple Vesuvius red flowering maple Facer spp. maple Acer spp. maple Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob Facer cidium floridum Blue palo verde Faceboard Redbud Chamaecyparis lawsoniana Lawson falsecypress Faceboard Facer cidium floridus spp. Filicoides-fernspray cypress Facer chamaecyparis pisifera Sawara-false cypress Squarrossa-moss cypress Fachamaedoraa cataractarum Cat palm Facer cidium ferion contact co		F		
Roseus flowering maple Tangerine flowering maple Vesuvius red flowering maple Acer spp. maple F Arecastrum romanzoffianum Queen palm Gueen palm Paper birch Betula papyrifera Paper birch Betula pendula White birch Betula pendula White birch Bucida buceras Black olive Caratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C, F Chamaecyparis lawsoniana Lawson falsecypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm				
Tangerine flowering maple Vesuvius red flowering maple Acer spp. maple Arecastrum romanzoffianum Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob Fecroidium floridum Blue palo verde Fecrois canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress Squarrosa-moss cypress Fechamaedorea cataractarum Cat palm Fe				
Vesuvius red flowering maple Acer spp. maple Arecastrum romanzoffianum Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Betula pendula White birch Bucida buceras Black olive Caratonia siliqua Carob FCercidium floridum Blue palo verde FCercis canadensis Redbud C, F, Chamaecyparis lawsoniana Lawson falsecypress FChamaecyparis pisifera Sawara-false cypress FChamaedorea cataractarum Cat palm FR Chamaedorea cataractarum Cat palm FR				
maple F Arecastrum romanzoffianum Queen palm F Betula papyrifera Paper birch F Betula nigra River birch F Betula pendula White birch F Bucida buceras Black olive F Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Gracilis-slender Hinoki cypress F Gracelis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Chamaedorea cataractarum Cat palm				
maple Arecastrum romanzoffianum Queen palm Betula papyrifera Paper birch Patula nigra River birch Betula pendula White birch Betula pendula White birch Black olive F Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracillis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Chamaedorea cataractarum Cat palm				
Arecastrum romanzoffianum Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob FCercidium floridum Blue palo verde FCercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress FChamaecyparis pisifera Sawara-false cypress FChamaedorea cataractarum Cat palm F	·	F		
Queen palm Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F F F F F F F F Chamaedorea cataractarum F Cat palm F F F F F F F F F F F F F F F F F F F				
Betula papyrifera Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob Cercidium floridum Blue palo verde Cercis canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F F		F		
Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Chamaedorea cataractarum Cat palm F F	•			
River birch F Betula pendula White birch F Bucida buceras Black olive F Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob Cercidium floridum Blue palo verde Blue palo verde Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Betula pendula White birch Bucida buceras Black olive F Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F F		F		
White birch Bucida buceras Black olive Ceratonia siliqua Carob F Cercidium floridum Blue palo verde Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Chamaedorea cataractarum Cat palm F F				
Black olive F Ceratonia siliqua Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
Black olive Ceratonia siliqua Carob Cercidium floridum Blue palo verde Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Chamaedorea cataractarum Cat palm F				
Carob F Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
Carob Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Cercidium floridum Blue palo verde F Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
Blue palo verde Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Cercis canadensis Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
Redbud C,F Chamaecyparis lawsoniana Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Chamaecyparis lawsoniana Lawson falsecypress Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		C,F		
Lawson falsecypress F Chamaecyparis obtusa spp. Filicoides-fernspray cypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		,		
Chamaecyparis obtusa spp. Filicoides-fernspray cypress F Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F		
Filicoides-fernspray cypress Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Gracilis-slender Hinoki cypress F Chamaecyparis pisifera Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F	(((((((((
Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F		F	iii	-
Sawara-false cypress F Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F				
Squarrosa-moss cypress F Chamaedorea cataractarum Cat palm F Cat palm		F	((
Chamaedorea cataractarum Cat palm F Signatura				(((
Cat palm F Significant F				(((
		F		

Palm	F		
Chamaedorea elegans Parlor palm	F		
Cornus florida			
Flowering dogwood	F		
Crupaniopsis anacardioides	_		
Carrot wood	F		
Cryptomeria japonica	0.5		
Japanese cryptomeria	C,F		
Cupressus glabra	0.5		
Arizona cypress	C,F		
Cupressus sempervirens	C,F		
Italian cypress	O,F		
Elaeagnus angustifolia Russian olive	C,F		
Eucalyptus cinerea	O ,1		
Mealy eucalyptus	F ·		
Silver dollar eucalyptus	F		
Eucalyptus camaldulensis	•		
Red gum eucalyptus	F		
Eucalyptus nicholii	·		
Narrow-leaved eucalyptus	F		
Eucalyptus sideroxylon			
Red ironbark eucalyptus	F		
Ficus benjamina			
Ficus	F		
Fraxinus spp.			
Ash	F		
Ginkgo biloba			
Maidenhair tree	C,F		
Gleditsia triacanthos	_		
Honey locust	F		
Heteromeles arbutiflora	_		
Toyon	F		
Juniperus virginiana	F		
Eastern redcedar` Kalmia latifolia	F		
Mountain laurel	F		
Koelreuteria paniculata	•		
goldenrain tree	F		
Liquidambar styraciflua	·		
American sweet gum	C,F		
Magnolia grandiflora	-,-		
Southern magnolia	F		
Malus spp.			cere
Crabapple	F	****	((<u>(</u>
Morus alba		((((((((((((((((((((
White mulberry	F		
Olea euripaea		((
Olive	F	((((((
Picea abies		(((((
Norway spruce	F.	((
Picea engelmanni	_		
Engelmann spruce	F		
Picea glauca	F		((. t. (
Conica-dwarf Alberta spruce	F		

White spruce	F		
Picea mariana	_		
Black spruce	F		
Picea pungens spp.	_		
Glauca-Colorado blue spruce	F		
Hoopsii-Hoop's blue spruce	F		
Koster-Koster blue spruce	F		
Pinus spp.			
Pine	C,F		
Platanus occidentalis			
American sycamore	F		
Platanus racemosa			
California sycamore	F		
Podocarpus spp.			
Podocarpus	F		
Populus deltoides			
Cottonwood	F		
Prunus caroliniana			
Carolina laurelcherry	F		
Prunus laurocerasus	•		
English laurelcherry	F		
Prunus mahaleb	•		
Mahaleb cherry	F		
Prunus yedoensis	•		
Yoshino flowering cherry	F		
Quercus spp.	•		
Oak	C,F		
Salix babylonica	C,i		
Babylon weeping willow	F		
Corkscrew willow	F		
	Г		
Schinus molle	F		
California pepper tree	F		
Sequoiadendron giganteum	F		
Giant sequoia	F		
Sequoia sempervirens	-		
Coast redwood	F		
Swietenia mahogani	_		
Mahogany	F		
Tabebuia caraiba	_		
Yellow tab	F		
Tilia cordata			
Littleleaf linden	C,F		
Thuja plicata			
Western redcedar	F		
Ulmus parvifolia			
Chinese Elm	F		((
Umbellularia californica		((((
California laurel	F		((
Washingtonia robusta			
Mexican fan palm	F	(, (((((
·			`((
		((((•
			, (()
			((((

Ornamental Shrubs

Ornamental Siliups			•
	Recommended Treatment Method: C = Container Grown		
Scientific Name/Common Name	F = Field Grown		
Abelia grandiflora			
Glossy abelia	F		
Acacia redolens			
Prostrate acacia	F		
Agave americana			
Century plant	F		
Agave macroculmis			
Agave	F		
Arctostaphylos stanfordiana			
Stanford manzanita	F		
Astilbe chinensis			
False spirea	C,F		
Baccharis pilularis			
Coyotebush	F		
Berberis thunbergii			
Atropurea-Redleaf Japanese barberry	C,F		
Aurea golden Japanese barberry	C,F		
Crimson pygmy barberry	C,F		
Bougainvillea spp.			
Barbara Karst	F		
California Gold	F		
Scarlet O'Hara	F		
Texas Dawn	F		
Buxus microphylla			
Japonica-Japanese boxwood	C,F		
Littleleaf boxwood	F [^]		
Buxus sempervirens			
Common boxwood	C,F		
Callistemon citrinus	- 7		
Lemon bottlebrush	C,F		
Ceanothus spp.	-,-		
Wild lilac	C,F		
Chamaecyparis obtusa spp.	C ,.		
Kosteri cypress	F		
Nana-dwarf Hinoki cypress	F		
Torulosa cypress	F		
Chamaecyparis pisifera	•		
Filifera-thread cypress	F		
Squarrosa minima-dwarf moss cypress	F		
Chrysalidocarpus lutescens	•		:: C C
Areca palm	F	165111	
Cleyera japonica	1	1 1	
	C,F	i i	
Japanese cleyera	C,F	(· · · · · · · · · · · · · · · · · · ·
Cotoneaster adpressus	F	; · · ·	
Praecox-early cotoneaster	Г		
Cotoneaster apiculatus	CE	' '	(
Cranberry cotoneaster	C,F	CC + C +	
Cotoneaster buxifolius	F		· · · · · · · · · · · · · · · · · · ·
Brightbead cotoneaster	F		(((
Cotoneaster congestus	_		((, (
Pyrenees cotoneaster	F		

Cotoneaster dammeri			
Bearberry cotoneaster	C, F		
Cotoneaster himalayan	_		
Himalayan cotoneaster	F		
Cotoneaster horizontalis	0.5		
Rock cotoneaster	C,F		
Cotoneaster lacteus	0.5		
Parney cotoneaster	C,F		
Cotoneaster microphyllus	F		
Rockspray cotoneaster	F		
Cornus alba	r		
Sibirica-Siberian dogwood Cornus florida	F		
	F		
Flowering dogwood Cornus kousa	r		
Kousa dogwood	C,F		
Cornus stolonifera	0,1		
Flaviramea-yellowtwig dogwood	F		
Cryptomeria japonica	1		
Japanese cryptomeria	C,F		
Cytisus praecox	0,1		
Holandia-warminster broom	F		
Cytisus scoparius	•		
Lena-Scotch broom	F		
Dasylirion wheeleri	•		
Desert spoon sotol	F		
Deutzia crenata	·		
Nakiana dwarf deutzia	F		
Dodonea viscosa			
Hopseed bush	F		
Escallonia exoniensis			
Escallonia	C,F		
Euonymus alata	·		
Winged euonymus	F		
Euonymus fortunei			
Canadale gold euonymus	C,F		
Emerald'n gold euonymus	C,F		
Stringybark euonymus	C,F		
Wintercreeper	C,F		
Euonymus japonica			
Evergreen euonymus	C,F		
Silver king euonymus	F		
Euonymus kiautschovica			
Spreading euonymus	F		
Fatshedera lizei			; ; (
Fatshedera	C,F	(1116	((
Forsythia intermedia	_	(; (ε
Forsythia	F	i i	(6
Gardenia jasminoides		() () () () () () () () () ()	(((((((
Gardenia	C,F	((r c c c
Genista pilosa	_	41466	(1 (
Woadwaxen	F	((() () () () () () () () ()	ť
Hibiscus rosa-sinensis	_		ξ (1. <u>(</u>
Chinese hibiscus	Ę		
Ross Estey hibiscus	F		
Hibiscus syriacus			5.6.5.5

Rose of Sharon, Red Bird	F		
Rose of Sharon, Red Heart	F		
Rose of Sharon, Woodbridge	F		
Hypericum spp.			
St. Johnswort	F		
llex aquifolium			
Balkans holly	F		
English holly	F		
Gold coast holly	F ·		
Ilex aquipernyi	•		
San Jose holly	C,F		
Ilex cornuta	C,.		
Chinese holly	C,F		
Dwarf burford holly	C,F		
llex crenata	O,1		
Convexa holly	C,F		
Compacta-dwarf Japanese holly	C,F		
Helleri-Heller's Japanese holly			
· · · · · · · · · · · · · · · · · · ·	C,F		
Japanese holly	C,F		
llex glabra	_		
Nordica-inkberry holly	F		
Ilex meserveae	_		
Blue girl holly	F_		
Blue boy holly	<u>F</u>		
Ebony magic holly	F		
Ilex vomitoria			
Nana-dwarf yaupon holly	C,F		
Pendula-weeping yaupon holly	C,F		
Yaupon holly	C,F		
Juniperus spp.			
Juniper	C,F		
Justicia brandegeana			
Shrimp plant	C,F		
Justicia spicigera			
Mexican honeysuckle	F		
Lagerstroemia indica			
Crape myrtle	C,F		
Leucothoe axillaris	•		
Coast leucothoe	F		
Leucothoe fontanesiana			
Drooping leucothoe	F		
Ligustrum amurense	•		
Amur privet	C,F		
Ligustrum japonicum	C ,.		
Japanese privet	C,F		
Yellow tip ligustrum	C,F		(((
Ligustrum texanum	O ,1	((
Wax leaf privet	F	6 (t
Howardi privet	F	cercer	- Çerric
	Г		
Ligustrum lucidum	C F	((
Glossy privet	C,F	4111	((
Ligustrum ovalifolium	_	ecice"	
California privet	F		
Ligustrum vicaryi	0.5		
Vicary golden privet	C,F		((((((
Livistona chinensis			• •

Chinese fountain palm	F		
Lonicera fragrantissima			
Winter honeysuckle	F		
Lonicera periclymenum	_		
Flowering woodbine	<u>F</u>		
Serotina woodbine	F		
Lonicera sempervirens	_		
Trumpet honeysuckle	F		
Mahonia aquifolium	- -		
Oregon grape	F		
Myoporum parvifolium	_		
Prostrate myoporum	F		
Myrtus communis	CE		
True myrtle Nandina domestica	C,F		
Compacta-dwarf heavenly bamboo	C,F		
Harbour-dwarf heavenly bamboo	C,F C,F		
Heavenly bamboo	C,F		
Nana compacta- heavenly bamboo	C,F C,F		
Nana purpurea-heavenly bamboo	C,F		
Woods-dwarf heavenly bamboo	C,F		
Nerium oleander	0,1		
Hardy red oleander	C,F		
Oleander	C,F		
Ruby lace oleander	C,F		
Osmanthus heterophyllus	O ,1		
Holly-leaf osmanthus	F		
Pachysandra terminalis	·		
Japanese spurge	F		
Philadelphus spp.	•		
Mockorange	C,F		
Phoenix roebelenii	- •-		
Pygmy date palm	F		
Photinia fraseri			
Fraser's photinia	C,F		
Picea abies	·		
Repens-spreading Norway spruce	F		
Pendula-weeping Norway spruce	F		
Pieris japonica			
Andromeda	C,F		
Lily-of-the-valley	F		
Snowdrift	F		
Temple bells lily-of-the-valley	F		
Valley rose lily-of-the-valley	F		
Pittosporum spp.			
Pittosporum	C,F		ςς, _ι
Platycladus orientalis		• • • • • • • • • • • • • • • • • • •	
Oriental arborvitae	C,F		¢
Plumbago ariculata	_	بوردوو	
Blue cape plumbago	F	(((((((((((((((((((
Podocarpus macrophyllus		(6 (1 ((((
Yewpine	C,F	ί <u>ι</u>	, ,
Potentilla fragiformis	-	CC(((Cici
Cinquefoil	F		((((
Potentilla fruticosa	0.5		•
Cinquefoil	C,F		

Protea neriifolia			
Protea	F		
Pyracantha coccinea			
Scarlet forethorn	C,F		
Pyracantha fortuneana			
Lalendel Monrovia pyracantha	C,F		
Monon pyracantha	C,F		
Red elf hybrid pyracantha	C,F		
Rutgers hybrid pyracantha	C,F		
Santa Cruz pyracantha	C,F		
Victory pyracantha	C,F		
Pyracantha skoidzumi			
Formosa firethorn	C,F		
Rhaphiolepis indica			
Enchantress-Moness rhaphiolepis	F		
India hawthorn	C,F		
Springtime-Monme rhaphiolepis	F		
Rhaphiolepis ovata			
Round-leaf rhaphiolepis	F		
Rhipsalidopsis gaetneri			
Easter cactus	C,F		
Rhododendron spp.	,		
Azalea	C,F		
Rhododendron	C,F		
Rhus lancea	,		
African sumac	C,F		
Rosa rugosa	- ,		
Ramanas rose	F		
Rosmarinus officinalis			
Rosemary	F		
Spiraea vanhouttei			
, Bridal wreath	F		
Syringa vulgaris			
Common lilac	F		
Syzygium paniculata			
Brush cherry	C,F		
Taxus cuspidata	• •		
Japanese yew	· F		
Taxus media	-		
Yew	F		
Thuja occidentalis			
American arborvitae	F		
Emerald arborvitae	F		
Globosa-globe arborvitae	F		
Little Giant-dwarf arborvitae	F		
Nigra-dark American arborvitae	F		
Pyramidalis arborvitae	F	conce	((; ; (;
Rheingold arborvitae	F	(((((((((((((((((((Ç
Woodwardii arborvitae	F		ι , ((() , ()
Thuja orientalis	•	ι (((((((((((((((((((((
Aurea nana-dwarf golden arborvitae	F	((((((
Minima glauca-dwarf arborvitae	F		
Trachelospermum jasminoides	•	(((((((((((((((((((ť
Chinese star jasmine	F		((((
Veitchia merilli	•		
Christmas palm	F		((((((
оппошта раш	•		

Viburnum davidii	
David viburnum	F
Viburnum japonicum	
Viburnum	F
Viburnum opulus sterile	
Eastern snowball viburnum	F
Viburnum plicatum tomentosum	
Doublefile viburnum	F
Viburnum x pragense	
Virburnum	F
Viburnum setigerum	
Tea viburnum	F
Viburnum suspensum	
Sandankwa viburnum	F
Viburnum tinus	
Compactum-spring bouquet viburnum	F
Laurastinus viburnum	C,F
Viburnum trilobum	_
Compactum-dwarf cranberry bush	F
Weigela florida	_
Java red weigela	F
Bristol ruby weigela	F
Minuet weigela	F
Xylosma congestum	_
Xylosma	F
Yucca elata	
Soaptree yucca	
	C,F
Yucca recurvifolia	·
	C,F F

Ground Covers

	Recommended		
	Treatment Method: C = Container Grown		
Scientific Name/Common Name	F = Field Grown		
Agapanthus africanus			
Lily-of-the-Nile	C,F		
Ajuga spp.			
Carpet bugle	F		
Arctotheca calendula			
Cape weed	F		
Campanula elatines			
Bellflower	C,F		
Carpobrotus edulis			
Largeleaf iceplant	F		£ ((()
Clytostoma callistegioides			ι .
Violet trumpet vine	C,F	•	
Cortaderia selloana		(((((
Pampas grass	F	· (444
Delosperma alba			(((
White iceplant	F	ι (ι (ι ((((ι
Drosanthemum floribundum			
Trailing rosea iceplant	F		
Festuca ovina			
Blue fescue	F		

Gazania spp.	
Gazania	F
Hedera canariensis	
Algerian ivy	F
Hedera helix	
English ivy	F
Hemerocallis spp.	
Day lily	C,F
Hosta spp.	
Plantain lily	C,F
Hypericum spp.	
St. Johnswort	F
Lampranthus spectabilis	
Red trailing iceplant	F
Liriope gigantea	_
White lily turf	F
Liriope muscari	
Big blue lily turf	C,F
Lilac beauty lily turf	C,F
Majestic lily turf	C,F
Monroe white lily turf	C,F
Silvery sunproof lily turf	C,F
Variegated liriope lily turf	C,F
Lonicera japonica	-
Japanese honeysuckle	F
Mesembryanthemum crystallinum	F
Ice plant	Г
Ophiopogon japonicus Mondo grass	F
Osteospermum fruticosum	Г
Trailing African daisy	F
Sedum brevifolium	'
Stonecrop	F
Trachelospermum jasminoides	•
Chinese star jasmine	F
Vinca major	•
Bigleaf periwinkle	F
Vinca minor	,
Dwarf periwinkle	F
•	

Established Flowers

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

Scientific Name/Common Name	C = Container Grown <u>F = Field Grown</u>		((((
Achillea spp.		((f
Yarrow	F	ć (,	ć
Antirrhinum majus			((((((((((((((((((((
Snapdragon	F	((•
Caladium bicolor			6 (f
Fancy-leaved caladium	F	ί (,
Chrysanthemum coccineum		((((
Painted daisy	F		((((
Chrysanthemum maximum			(((((((((((((((((((
Shasta daisy	F		,,,,

Chrysanthemum morifolium	
Chrysanthemum	F
Coreopsis lanceolata	
Coreopsis	F
Dianthus barbatus	
Sweet william	F
Dicentra spectabilis	
Bleeding heart	C,F
Dimorphotheca spp.	
Cape marigold	F
Echinacea purpurea	
Purple coneflower	F
Geum quellyon	
Geum	F
Gladiolus hortulanus	
Gladiolus	F
Gypsophila paniculata	
Baby's breath	F
Impatiens wallerana	_
Impatiens	F
Iris spp.	_
Bearded iris	F
Liatris spicata	<u> </u>
Blazing star	C,F
Pelargonium hortorum	F
Geranium Potunio ann	Γ
Petunia spp. Petunia	F
Portulaca grandiflora	r
Rose moss	F
Ranunculus asiaticus	•
Persian ranunculus	F
Rosa spp.	•
Rose	F
Rudbeckia hirta	•
Gloriosa daisy/black-eyed susan	F
Salvia spp.	-
Sage	F
Stokesia laevis	
Stokes aster	F
Strelitzia reginae	
Bird of paradise	F
Tagetes spp.	
Marigold	F
Viola wittrockiana	
Pansy	F
Zinnia elegans	_
Common zinnia	F





Non-bearing Fruit and Nut Trees and Non-bearing Vineyards †

	Recommended
	Treatment Method:
	C = Container Grown
Common Name	F = Field Grown
Almond	F
Apple	F
Apricot	F
Avocado	F
Cherry, sour	F
Cherry, sweet	F
Fig	F
Filbert	F
Grape, American	F
Grape, European	F
Grapefruit	F
Kiwi	F
Kumquat	C,F
Lemon	F
Macadamia nut	F
Nectarine	F
Olive	F
Orange	C,F
Peach	F
Pear	F
Pecan	C,F
Pistachio	F
Plum	F
Pomegranate	F
Prune	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. Do not apply to plants that will bear fruits, berries or nuts within 12 months of application

Non-bearing Berries †

	Recommended Treatment Method: C = Container Grown		ι(; ζ
Common Name	F = Field Grown	(((((((
Blackberry	F	, , ,	€.
Blueberry	F		
Boysenberry	F	((
Currant	F	((6666
Dewberry	F	((((` ((' (
Elderberry	F		ι
Gooseberry	F		((((
Loganberry	F		((((
Raspberry	F		(((((((((((((((((((

† Non-bearing berries are defined as plants that will not bear berries for at least one year after treatment. Do not apply to plants that will bear fruits, berries or nuts within 12 months of application

Ornamental Bulbs

Special Use Precautions

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch. Deep till prior to planting any crop after this use.

Do not apply to gladioli prior to emergence or to plants less than one inch in diameter.

Application Rates, Frequency, and Timing of Applications

XL 2G may be applied for annual weed control in ornamental bulbs such as bulbous iris, daffodil (narcissus), hyacinth, and tulip. Apply XL 2G to the soil surface two (2) to four (4) weeks after planting and final hilling but prior to the emergence of annual weeds. XL 2G may also be applied following bulb emergence. For fall-planted bulbs, apply XL 2G again in late winter or early spring to weed-free soil surfaces.

Broadcast Application Rates

Time of		XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
Application	Soil Texture	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
Fall	Coarse	75	1.7	3	150
Fall	Medium and Fine	150	3.4	3	225
Feb March	All Soil Textures	75	1.7	3	225

Christmas Tree Plantations

Apply XL 2G to established plantings of labeled field grown Christmas tree species prior to germination of target weeds. Do not apply to Douglas fir (*Pseudotsuga menziesii*) or Eastern hemlock (*Tsuga canadensis*). Do not apply 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.

Broadcast Application Rates

Length of	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
2 - 4 months	200	4.6	2	400

Note: Refer to the "General Information" section of this label for general use precautions and price information on application. Refer to "Approved Uses" section of this label for special use precautions and information weeds controlled.

Noncropland Areas: Industrial Sites, Utility Substations, Highway Guardrails, Sign Posts, and Delineators

XL 2G is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guardrails, sign posts, and delineators. Apply XL 2G prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Broadcast Application Rates

Length of	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
2 - 4 months	200	4.6	2	400

Note: Refer to the "General Information" section of this label for general use precautions and information on application. Refer to "Approved Uses" section of this label for special use precautions and information weeds controlled.

Warm Season Turfgrasses

XL 2G 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 and zoysiagrass or 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.

Successful preemergence control of weeds listed on this label requires that XL 2G be applied prior to weed germination and be activated by at least one-half (1/2) inch of rainfall or irrigation as soon as possible after application.

Special Use Precautions:

To avoid possible injury, do not apply XL 2G to:

- Cool season turfgrass species other than tall fescue.
- · Lawns containing dichondra or cool season turfgrass species.
- · Golf course putting greens or tees.
- Turfgrass in the spring that was planted the previous fall.
- Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, zoysiagrass or tall fescue until these turfs are well established and have well anchored root systems.
- · Newly hydromulched areas of bermudagrass until such areas are well established.
- This product must be watered in as soon as possible after application to dissolve the granules. A single rainfall or irrigation of ½ inch or more is required after product application. Watering-in must be performed by the commercial applicator or the commercial applicator must provide the following information to the resident or owner in writing:
 - "This product must be watered in as soon as possible."
 - "Do not enter or allow others (including children or pets) to enter the treated areas (except those involved in the watering) until the watering-in is complete and the surface is dry.

XL 2G will not control emerged weeds.

XL 2G 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 XL 2G only to healthy, well-established turf that has a well-anchored root system.

Do not apply XL 2G in the spring or early summer to tall fescue turfgrass reseeded the previous fall. In such cases, apply Balan* 2.5G granular herbicide at 60 pounds per acre in early summer (Round 1) and XL 2G at 100 pounds per acre approximately eight weeks later (Round 2).

XL 2G may thin established annual bluegrass (Poa annua) at rates above 100 pounds per acre.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of XL 2G will thin the overseeded grasses.

Weeds Controlled or Suppressed by XL 2G

Weeds controlled by XL 2G when applied at 100 to 150 lb/acre (2.3 to 3.4 lb/1000 sq ft)

Annual Grasses

Summer Annuals:		Winter Annuals:	
Common Name Barnyardgrass Crabgrass Crowfootgrass foxtail Goosegrass Johnsongrass (seedling only) ryegrass, Italian sandbur, field	Scientific Name Echinochloa crus-galli Digitaria spp. Dactyloctenium aegyptium Setaria spp. Eleusine indica Sorghum halepense Lolium multiflorum Cenchrus incertus	Common Name bluegrass, annual	Scientific Name Poa annua

Broadleaf Weeds

Summer Annuals:		Winter Annuals:	
Common Name Carpetweed knotweed, prostrate purslane, common	Scientific Name Mollugo verticillata Polygonum aviculare Portulaca oleracea	Common Name chickweed, common henbit	Scientific Name Stellaria media Lamium amplexicaule

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 100 to 150 lb/acre (2.3 to 3.4 lb/1000 sq ft).

Common Name	Scientific Name
carrot, wild	Daucus carota
fleabane, dwarf	Conyza ramosissima
groundsel, common	Senecio vulgaris
mustard, Indian	Brassica juncea
spurge, prostrate	Euphorbia humistrata
woodsorrel, yellow	Oxalis stricta



24/28

Application Rates, Frequency and Timing of Applications

XL 2G 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 weed control.

Broadcast Application Rates (Warm Season Turfgrasses)

XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year	
Use Area	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
All regions	100	2.3	2	200
_	150	3.4	3	300

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 150 pounds per acre of XL 2G in late winter or early spring, prior to the onset of conditions favorable for summer annual weed germination.

Split Application Program: As an alternative to a single application program, XL 2G 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 100 pounds per acre of XL 2G in an initial application, followed by a second application of 100 pounds per acre 8 to 10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial XL 2G application.

2. Annual Bluegrass and Winter Annual Broadleaf Weeds

Apply XL 2G as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. Do not apply XL 2G to areas where fall overseeding will occur. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply XL 2G at 100 pounds per acre. If thinning of turfgrass cover is not a potential problem, XL 2G may be applied at 150 pounds per acre.

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).

Application Directions

Apply XL 2G 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 granular herbicides. More uniform application may be achieved by spreading helf the required amount of product over the area and then applying the remaining half in swaths at right angles to the first application. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing granules uniformly.

Reseeding

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Reseeding should be delayed for at least 6 weeks following application of XL 2G at the 100 pound per

acre rate. When using XL 2G at the 150 pound per acre rate, reseeding should be delayed 12 to 16 weeks after application. 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 XL 2G use, the seeding rate should be increased and equipment designed to place seed in full contact with soil (such as the Rogers Aero Seeder) should be employed.

Spreader Settings

(A guide for calibrating spreaders to apply XL 2G in one pass over turf.)

Note: These settings are provided as *suggested* starting points in calibrating each individual spreader. Since no two spreaders are alike, these settings are intended only as a guide in beginning the calibration process.

Estimated Spreader Sett Necessary to Apply th Specified Rate of XL 2G Acre		of XL 2G Per
		Pass
Spreader Type	100 lb/acre	150 lb/acre
Cyclone:		
Models B1, 33, 96, BSSB at 200 ft/min.	3 1/4	3 1/2
Model 100 at 200 ft/min.	3 1/4	3 1/2
Model 93 (based on tractor speed of 4 mph)	5	6 1/4
Model 99 (based on tractor speed of 4 mph)	4 3/4	5 3/4-6
Model BPI (based on tractor speed of 4 mph)	4 1/2	5 1/4-5 1/2
Gandy:		
Model 10A series, 6, 8, 10, 11, 12, 20 and 30 ft		
(based on tractor speed of 5 mph)	31	37
Model 10T series, 6, 8, 10, 11, 12, 20 and 30 ft		
(based on tractor speed of 5 mph)	33	40
Turf Tender, 24, 30, 42 inch (based on tractor		
speed of 3 mph)	25	28
600 Series, 2, 4 and 5 ft (based on tractor speed		
of 3 mph)	18	22
Lely:		
Model W and H (based on tractor speed of 4.5	3	4
mph)		
Lesco:		
Lesco Spreader (Note: set 3rd adjustable hole 1	D 1/2	F
notch from "open")		
Scott:		
Rotary Model R-8	H 1/2	l 1/4
Drop Spreader	3 7/8	4 5/8
Spyker:	_	
Spyker	3.2	3.6
Vicon:		,
Model 402 (with seed ring) swath width 20 ft, 5	24	28
mph speed		
Warren:		4 68 1
Model T-7II (based on ground speed of 3.0 mph)	3 1/4	4 '' '



IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS 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. The Directions for Use of this product reflect the opinion of experts based on field use and tests and must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

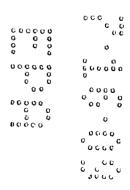
TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNITED PHOSPHORUS, INC. AND SELLER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL.

To the extent allowed by consistent with applicable law, United Phosphorus, Inc. or Seller shall not 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 UNITED PHOSPHORUS, INC. 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 UNITED PHOSPHORUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

Balan is a registered trademark of Dow AgroSciences, LLC. Surflan is a registered trademark of United Phosphorus, Inc.

EPA- approved 9/26/07



NOTIFICATION AUG 1 7 2009



United Phosphorus, Inc.

630 Freedom Business Center Suite 402 King of Prussia, PA 19406 (610) 491-2828 (phone) (610) 491-2810 (fax) Rebecca A. Clemmer Regulatory Manager

July 15, 2009

Joanne Miller (PM 23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

Re: Oryzalin Products - Notifications

Dear Ms. Miller:

United Phosphorus, Inc. is submitting revised labels to accomplish the following changes, all of which qualify as Notifications: add herbicide resistance category per PRN 2001-5; update container disposal wording per PRN 2007-4. In addition, some changes have been made as listed in the chart below.

Product Name	EPA Reg. No.	Notification Changes	
Surflan AS herbicide	70506-43 /	Update company and emergency contact; update warranty	
Surflan AS Specialty	70506-44 //	Update company and emergency contact; update warranty	
XL 2G	70506-45 /	Update emergency telephone; small change to warranty	
Surflan Dry Flowable	70506-46/	Update company and emergency contact; update warranty	
Surflan WDG Specialty	70506-50	Update company and emergency contact; update warranty	
UP-Shot DF	70506-53	Update company and emergency contact; update warranty	
XL 2GR	70506-56	Update emergency telephone. Note that no resistance category is being added to this homeowner product.	

In support, for each label enclosed please find:

- EPA form 8570-1
- Label copy marked to show changes
- Label integrity form
- A CD containing clean pdf copies of each label

Please contact me if you have any questions.

Very truly yours,

Rebecca A. Clemmer

 $\underline{rebecca.clemmer@uniphos.com}$

R.a. Clemmer