Surflan WDG Specialty Herbicide / Draft Amend for RED / 11-07-05

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(Base Label):

Surflan® WDG Specialty Herbicide

A selective 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 greenhouse benches
- Ornamental bulbs
- Ground covers

- Christmas tree plantations
- Noncropland
- Non-bearing trees and vines
- Industrial sites
- Established warm season turf (including Bahiagrass, Bermudagrass, Buffalograss, Centipedegrass, St. Augustinegrass, Tall Fescue and Zoysiagrass)

Active Ingredient:

CAUTION PRECAUCION

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

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with eyes, skin or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Shoes plus socks

ACCEPTED DEC 28 2006

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

70506-50

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.

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.

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. Call a poison control center or doctor for treatment advice.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for Directions for Use, including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read Conditions of Sale and Limitation of Warranty and Liability inside label booklet.

For emergency medical assistance, call the National Pesticide Information Center 1-800-858-7378. For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300. Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 70506-50

EPA E	St.	



United Phosphorus, Inc.
 423 Riverview Plaza
 Trenton, NJ 08611
 1-800-247-1557 • www.upi-usa.com
 1-800-247-1558

Specialty Herbicide

Net Weight Ib



[Label Booklet]

Surflan® WDG Specialty Herbicide

A selective 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 greenhouse benches
- Ornamental bulbs
- Ground covers

- Christmas tree plantations
- Noncropland
- Non-bearing trees and vines
- Industrial sites
- Established warm season turf (including Bahiagrass, Bermudagrass, Buffalograss, Centipedegrass, St. Augustinegrass, Tall Fescue and Zoysiagrass)

Active Ingredient:

oryzalin: 3,5-dinitro- <i>N</i> ⁴ , <i>N</i> ⁴	-
dipropylsulfanilamide	85.0%
Inert Ingredients	<u>15.0%</u>
Total	
Contains 0.85 pounds of active	e ingredient per pound of product.

Keep Out of Reach of Children

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.)

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to inside of label booklet for Directions for Use including Storage and Disposal.

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EPA Reg. No. 70506-50

EPA Est. No.

(1)	UPI
	<u> </u>

-United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 1-800-247-1557 ● www.upi-usa.com

Specialty Herbicide

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Reseeding Conditions of Sale & Limitation of Warranty and Liability



[Page 2 of label booklet]

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation • Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with eyes, skin or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves
- · Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft 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/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.

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. Call a poison control center or doctor for treatment advice.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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.



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 1/2 to 1 inch of rainfall or irrigation provided that 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.

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 use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.



General Information

Surflan WDG Specialty Herbicide is a preemergence surface-applied herbicide for the control of annual grasses and many broadleaf weeds in ornamental plantings, bulbs, ground covers, established warm-season turfgrass, Christmas tree plantations, non-bearing trees and vines, non-cropland and industrial sites.

General Use Precautions and Restrictions

Surflan WDG will not control emerged weeds. Poor weed control may result if directions are not followed. Over-application may result in crop injury or excessive soil residue.

Surflan WDG 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. Surflan WDG may also be applied with mulch colorants, such as Mulch Magic or Nu-Mulch.

Users who wish to use Surflan WDG 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 for 30 to 60 days 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 Surflan WDG on plant species not recommended on this label.

Activation and Cultivation

Surflan WDG will remain stable on the soil surface up to 21 days following application. In the absence of timely rainfall, irrigation can be used to activate Surflan WDG. A minimum of one-half (1/2) inch of rain or its equivalent in sprinkler irrigation is necessary to activate Surflan WDG.

If weeds begin to emerge due to lack of rainfall or irrigation, shallow cultivate 1 to 2 inches deep to destroy existing weeds or remove them by hand. Shallow cultivation to a depth of 1 to 2 inches will enhance herbicidal effectiveness. If Surflan WDG is not activated by rainfall, irrigation or cultivation within 21 days of application or existing weeds have not been removed, erratic weed control may result.

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

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

Do not aerially apply this product.

Soil Preparation

Surflan WDG will not control emerged weeds. 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.

Mixing Directions

Surflan WDG Alone

Make sure spray tank is clean. Fill spray tank 1/4 full with clean water. Start agitation. Vigorous, continuous agitation throughout the spray tank is required with water dispersible granule (WDG) formulations. Add the correct amount of Surflan WDG to the spray tank in a controlled manner to aid in mixing and dispersion and to prevent clogging of screens and outlet ports. Maintain continuous agitation from mixing through application.

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

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Surflan WDG Tank Mix Combinations

Vigorous continuous agitation is required for all tank mixes of Surflan WDG. Sprayer pipe agitators generally provide the best agitation in spray tanks. To prevent foaming, keep the end of the fill pipe below the surface of the water in the spray tank during filling to prevent air from being stirred or splashed into the mixture.



Mixing Order: Fill the tank 1/4 full with clean water, start agitation and add the correct amount of Surflan WDG as described above. Fill the spray tank to about 90 percent of final spray volume. Add other formulations 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 or water dispersible granule formulations.

Add different formulation types in the following order: dry flowables (DF); wettable powders (VVP); flowables (F), liquids (L) or aqueous suspensions (AS); solutions (S); and emulsifiable concentrates (EC). Maintain continuous agitation during mixing, final filling and throughout application. 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 sprayer agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed.

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Where recommended, follow product label instructions for each material. Adding the slurried material to the spray tank through a 20 or 35 mesh wetting screen will help assure good initial dispersion. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Application Methods

Ground Application

Apply Surflan WDG as a directed spray to the soil surface or over top of plants using a vehicle-mounted, pull-type, or backpack sprayer. Apply the appropriate rate of Surflan WDG as outlined in "Approved Uses" section of this label. In all cases, use sufficient water volume to obtain uniform coverage and deliver the desired rate of Surflan WDG to the treated area. The volume of water used is not critical, as long as the desired rate of Surflan WDG 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, acre, etc.). Then mix the desired rate of Surflan WDG in the amount of water required to cover the entire area to be treated. Use only a properly calibrated, low-pressure herbicide sprayer that will apply the spray uniformly. Use herbicide tips with screens no finer than 50 mesh in nozzles and in-line strainers. 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.



Weeds Controlled by Surflan WDG Specialty Herbicide

Annual Grasses:

Common Name Scientific Name

barley, little Hordeum pusillum barnyardgrass Echinochloa crus-galli

(watergrass)

bluegrass, annual Poa annua

crabgrass, large Digitaria sanguinalis

crabgrass, smooth Digitaria ischaemum crowfootgrass Dactyloctenium aegyptium

cupgrass, southwestern Enochloa gracilis
foxtail, bristlegrass Setaria magna
foxtail, giant Setaria faberi
foxtail, green Setaria viridis

(pigeongrass)

foxtail, robust Setaria robusta foxtail, yellow Setaria glauca goosegrass Eleusine indica

(silver crabgrass)

Johnsongrass Sorghum halepense

(seedling only)

junglericeEchinochloa colonumlovegrass, MexicanEragrostis mexicanalovegrass, orcuttEragrostis orcuttiana

oat, wild Avena fatua

panicum, browntop Panicum fasciculatum panicum, fall Panicum dichotomiflorum

(spreading panicgrass)

panicum, Texas Panicum texanum

(buffalograss) (Coloradograss)

ryegrass, Italian
sandbur, field
signalgrass (Brachiaria)
sprangletop, red
witchgrass

Lolium multiflorum
Cenchrus incertus
Brachiaria spp.
Leptochloa filiformis
Panicum capillare

Broadleaf Weeds:

Common Name Scientific Name

bittercress Cardamine oligosperma carpetweed Mollugo verticillata chickweed, common Stellaria media fiddleneck, coast Amsinckia intermedia filaree, redstem Erodium cicutarium filaree, whitestem Erodium moschatum Senecio vulgaris groundsel, common Lamium amplexicaule henbit knotweed, prostrate Polygonum aviculare lambsquarters Chenopodium album Amaranthus blitoides pigweed, prostrate Amaranthus retroflexus pigweed, redroot pigweed, spring Amaranthus hybridus pigweed, tumble Amaranthus albus Tribulus terrestris puncturevine



pursiane, common pusley, Florida

(Florida purslane) (Mexican clover) (pusley)

rocket, London rockpurslane, desert shepherdspurse

spurge, prostrate

woodsorrel, yellow

Portulaca oleracea Richardia scabra

Sisymbrium irio Calandrinia ciliata

Capsella bursa-pastoris

Euphorbia humistrata

Oxalis stricta



Weeds Suppressed by Surflan WDG Specialty 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:

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

Labeled Use Sites

Ornamental Plantings

Special Use Precautions:

Apply only to established plantings. Established plants are defined as those 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.

To avoid possible injury, do not apply Surflan WDG to:

- Either 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 there is likelihood of runoff onto lawn areas.
- Areas containing dichondra or cool season turfgrass species.

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.

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

For soils treated with Surflan WDG during the previous season, plant only the ornamental species listed on this label or injury may occur.

Ice Plant: When establishing unrooted ice plant (*Mesembryanthemum crystallinum* and *Carpobrutus* edulis) on coarse soils in landscape plantings, use only the 2 quart per acre rate of Surflan WDG or crop injury may occur. After the ice plant is well established, a second application may be made.



Broadcast Application Rates

	Length of	Sur	fian WDG	Minimum Time Between Applications	Total Amount Allowed Per Year
Labeled Use Site	Control	(lb/acre)	(oz/1200 sq ft)	(months)	(lb/acre)
Landscape	2 - 4 months	2.4	1	2	9.4
Ornamentals	3 - 6 months	3.5	1.5	4	14
	4 - 8 months	4.7	2	4	14
Field-grown and	2 - 4 months	2.4	1	3	9.4
container-grown	3 - 6 months	3.5	1.5	3	10.6
ornamentals	4 - 8 months	4.7	2	3	14

Handheld or Backpack Sprayer Application

Apply Surflan WDG at a rate of 1 to 2 ounces per 1200 square feet. The amount of water used to apply Surflan WDG is not critical, but should be sufficient for uniform treatment of the target area. Calibrate by determining the volume of water required to treat 1200 square feet. Use this calibration volume to determine the amount of water and Surflan WDG needed to treat the target area (see following table).

Note: Sprayer calibration (volume of spray needed to treat 1,000 square feet) will vary with each individual operator.

Length of Control	Application Rate (oz/1200 sq ft)	Quantity of Water Needed
2 to 4 months	1	The amount required by your
4 to 8 months	2	sprayer to cover 1200 sq ft of area.

Sample Calculation:

Size of target area ÷ 1200 x Application rate = Amount of Surflan WDG required

Size of target area + 1200 x Calibration volume per 1200 sq ft = Amount of water required

Recommended Species Including Fruit Plant Nursery Liners

Surflan WDG is recommended for use on certain container- and field-grown established ornamental plants, trees and shrubs; established ground covers; field grown fruit tree and shrub nursery liners; and in the production of ornamental bulbs (See "Ornamental Bulbs" for special use directions).

Do not apply Surflan WDG to the following plant species when container grown or field grown or injury may occur:

Deutzia gracilis (slender deutzia)

Pseudotsuga menziesii (Douglas-fir)

Thuja occidentalis 'Techny' (Techny arborvitae)

Tsuga canadensis (eastern hemlock)

Surflan WDG May be Used on the Following Field- and Liner[†]- Grown Plants and Plants in Landscape Plantings:

†Plants transplanted for additional growth before transplanting to final growing location.

Common Name Scientific Name abelia, glossy Abelia grandiflora Acacia redolens acacia, prostrate agave Agave macroculmis Andromeda Pieris japonica apple Malus spp. Thuja occidentalis arborvitae, American arborvitae, Oriental Platycladus orientalis



ash aster, stokes astilbe/false spirea

azalea

baby's breath barberry, Japanese bellflower birch, river birch, white bird of paradise blazing star bleeding heart bottlebrush, lemon boxwood, common boxwood, Japanese brush cherry

caldaium, fancy leafed

California laurel

campanula (bellflower)

cape marigold carpet bugle cassia, feathery cherry, Mahaleb cherry, sweet

chrysanthemum, florists cleyera, Japanese coneflower, purple

coreopsis

cotoneaster, bearberry cotoneaster, brightbead cotoneaster, cranberry cotoneaster, parney cotoneaster. Pyrenees cotoneaster, rock cotoneaster, rockspray

cottonwood

(grown for pulp) coyotebush, dwarf crape Myrtle, common cryptomeria, Japanese cypress, Arizona cypress, Italian daisy, gloriosa

(black-eyed Susan)

daisy, painted daisy, shasta daisy, trailing African

daylily

dogwood, flowering dogwood, kousa eastercactus escalionia

eucalyptus, mealy

eucalyptus, narrow-leaved

eucalyptus, red

Fraxinus spp.
Stokesia laevis
Astilbe chinensis and
A. chinensis hybrids
Rhododendron spp.
Gypsophila paniculata
Berberis thunbergii
Campanula elatines
Betula nigra

Betula nigra
Betula pendula
Strelitzia reginae
Liatris spicata
Dicentra spectabilis
Callistemon citrinus
Buxus sempervirens

Buxus microphylla japonica

Syzygium paniculata Caladium bicolor Umbellularia californica Campanula spp. Dimorphotheca spp.

Ajuga spp.

Cassia artemisioides Prunus mahaleb Prunus avium

Chrysanthemum morifolium

Cleyera japonica
Echinacea purpurea
Coreopsis lanceolata
Cotoneaster dammeri
Cotoneaster buxifolius
Cotoneaster apiculatus
Cotoneaster lacteus
Cotoneaster congestus
Cotoneaster horizontalis
Cotoneaster microphyllus

Populus deltoides

Baccharis pilularis Lagerstroemia indica Cryptomeria japonica Cupressus arizonica (glabra) Cupressus sempervirens Rudbeckia hirta

Chrysanthemum coccineum Chrysanthemum maximum Osteospermum fruticosum

Hemerocallis spp. Comus florida Cornus kousa

Rhipsalidopsis gaertneri Escallonia exoniensis Eucalyptus cinerea Eucalyptus nicholii Eucalyptus sideroxylon

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euonymus, evergreen Euonymus japonica euonymus, stringybark Euonymus fortunei euonymus, winged Euonymus alata

falsecypress, Lawson Chamaecyparis lawsoniana

fatshedera Fatshedera lizei
fir, alpine Abies lasiocarpa
fir, balsam Abies balsamea
fir, fraser Abies fraseri
fir, grand Abies grandis
fir, Vietch Abies concolor

firethorn Pyracantha, fortuneana firethorn, formosa Pyracantha skoidzumi firethorn, scarlet Pyracantha coccinea forsythia, border Forsythia intermedia gardenia Gardenia jasminoides gazania, trailing Gazania rigens leucolaena geranium (Pelargonium) Pelargonium hortorum

geum Geum quellyon
ginkgo Ginkgo biloba
garden gladiolus Gladiolus hortulanus
goldenrain tree Koelreuteria paniculata
heavenly bamboo (Nandina)
hibiscus, Chinese Hibiscus rosa-sinesis

holly, Chinese Ilex comuta
holly, English Ilex aquifolium
holly, Japanese Ilex crenata
honeysuckle, Japanese Lonicera japonica
honeysuckle, Mexican Justicia spicigera
hopseedbush, clammy Dodonaea viscosa

ice plant Mesembryanthemum crystallinum

(See precautions for ornamental plantings)

ice plant, largeleaf Carpobrutus edulis

(See precautions for ornamental plantings)

impatiens (Busy lizzie) Impatiens wallerana

iris, bearded Iris spp.

ivy, Algerian Hedera canariensis ivy, English Hedera helix

Jerseytea, redroot Ceanothus americanus

juniper Juniperus spp.
kumquat Fortunella spp.
laurel, mountain Kalmia latifolia
laurelcherry, Carolina Prunus caroliniana
laurelcherry, English Prunus laurocerasus
leucothoe, coast Leucothoe axillaris
leucothoe, drooping Leucothoe fontanesiana

lilac, commonSyringa vulgarislily, plantainHosta spp.lilytuf, bigblueLiriope muscarilily-of-the-NileAgapanthus africanus

linden, little leaf Tilia cordata

magnolia, Southern Magnolia grandiflora
manzanita, Stanford Arctostaphylos stanfordiana

maple Acer spp.
marigold Tagetes spp.
mockorange Philadelphus spp.



moss, rose

myoporum, prostrate

myrtle, true oak oleander

orange, ornamental Oregon grape

osmanthus, holly-leaf Palo Verde, blue

pansy pear

pecan, ornamental periwinkle, bigleaf periwinkle, dwarf

petunia photinia pine pittosporum privet, amur privet, glossy privet, golden privet, Japanese

protea

ranunculus, Persian

redbud

redcedar, eastern redcedar, western redwood, coast

rhaphiolepsis (India hawthorn)

rhododendron

rose

rose-of-Sharon (Shrubalthea)

Russian olive

sage

shrimp plant snapdragon sotol, desert spoon spruce, black spruce, Colorado spruce, Englemann spruce, Norway spruce, white

star jasmine, Chinese

stonecrop sumac, African sweetgum, American sweet William

tobira

trumpet vine, violet viburnum, Laurustinus virbumum, Sandankwa

weigela, oldfashioned

wintercreeper xylosma, Japanese

yarrow yaupon Portulaca grandiflora Myoporum parvifolium Myrtus communis Quercus spp. Nerium oleander Citrus spp.

Mahonia aquifolium Osmanthus heterophyllus

Cercidium floridum Viola wittrockiana Pyrus communis Carya spp. Vinca major Vinca minor Petunia spp. Photinia fraseri Pinus spp. Pittosporum spp.

Ligustrum amurense Ligustrum lucidum Ligustrum vicaryi Ligustrum japonicum Protea neriifolia

Cercis canadensis Juniperus virginiana

Ranunculus asiaticus

Thuja plicata

Sequoia sempervirens Rhaphiolepsis indica Rhododendron spp.

Rosa spp.

Hibiscus syriacus Elaeagnus angustifolia

Salvia spp.

Justicia brandegeana Antirrhinum majus Dasylirion wheeleri Picea mariana Picea pungens Picea englemanni Picea abies Picea glauca

Trachelospermum jasminoides

Sedum brevifolium Rhus lancea

Liquidambar styraciflua Dianthus barbatus Pittosporum tobira

Clytostoma callistegioides

Vibumum tinus Virbunum suspensum Weigela florida Euonymus fortunei Xylosma congestum

Achillea spp. Ilex vomitoria



vew

yew, Japanese

yewpine

yucca, pendulous yucca, soaptree zinnia, common Taxus media Taxus cuspidata

Podocarpus macrophyllus

Yucca recurvifolia Yucca elata Zinnea elegans

Surflan WDG May be Used on the Following Container-Grown Plants:

Common Name

andromeda arborvitae, American arborvitae, Oriental astilbe/false spirea

barberry, Japanese

bellflower
blazing star
bleeding heart
bottlebrush, lemon
boxwood, common
brush cherry
cleyera, Japanese
cotoneaster, bearberry
cotoneaster, cranberry
cotoneaster, parney
cotoneaster, rock
crape Myrtle, common
cryptomeria, Japanese
cypress, Arizona

cypress, Italian daylily

dogwood, kousa eastercactus escallonia

euonymus, evergreen euonymus, stringybark

fatshedera firethorn

firethorn, formosa firethorn, scarlet

gardenia ginkgo holly, Chinese holly, Japanese Jerseytea, redroot

juniper kumquat lilac, common tilyturf, bigblue lily-of-the-Nile linden, little leaf mockorange myrtle, true oak Quercus spp.

oleander

Scientific Name

Pieris japonica Thuia occidentalis Platycladus orientalis Astilbe chinensis and A. chinensis hybrids Berberis thunbergii Campanula elatines Liatris spicata Dicentra spectabilis Callistemon citrinus Buxus sempervirens Syzygium paniculata Clevera japonica Cotoneaster dammeri Cotoneaster apiculatus Cotoneaster lacteus Cotoneaster horizontalis Lagerstroemia indica Cryptomeria japonica

Cupressus arizonica (glabra) Cupressus sempervirens

Hemerocallis spp. Cornus kousa

Rhipsalidopsis gaertneri Escallonia exoniensis Euonymus japonica Euonymus fortunei Fatshedera lizei

Pyracantha, fortuneana Pyracantha skoidzumi Pyracantha coccinea Gardenia jasminoides

Ginkgo biloba Ilex cornuta Ilex crenata

Ceanothus americanus

Juniperus spp.
Fortunella spp.
Syringa vulgaris
Liriope muscari
Agapanthus africanus

Tilia cordata Philadelphus spp. Myrtus communis

Nerium oleander

orange, ornamental pecan, omamental photinia pine

pittosporum privet, amur privet, glossy privet, golden privet, Japanese redbud

rhaphiolepsis (India hawthorn) rhododendron Russian olive shrimp plant spruce, Colorado

sumac, African sweetgum, American trumpet vine, violet

viburnum, Laurustinus wintercreeper yaupon yucca, soaptree

Citrus spp. Carya spp. Photinia fraseri

Pinus spp. Pittosporum spp. Ligustrum amurense Ligustrum lucidum Ligustrum vicaryi Ligustrum japonicum Cercis canadensis Rhaphiolepsis indica

Rhododendron spp. Elaeagnus angustifolia Justicia brandegeana Picea pungens Rhus lancea

Liquidambar styraciflua Clytostoma callistegioides

Viburnum tinus Euonymus fortunei Ilex vomitoria Yucca elata

Surfian WDG May be Used on the Following Field Grown Fruit Plant Nursery Liners[†]:

almond apple apricot

grapefruit kiwi lemon

pear pecan pistachio

avocado cherry

macadamia nut nectarine

plum pomegranate

fig olive orange

prune

filbert

walnut, English

grape

Small Fruits:

blackberry blueberry boysenberry currant dewberry elderberry gooseberry loganberry raspberry

[†] Plants transplanted for additional growth before transplanting to final growing location.



Tank Mix Combinations

Tank mix combinations of Surflan WDG plus glyphosate, and many other labeled herbicides may be used to control undesirable vegetation in ornamental areas. Surflan WDG may also be tank mixed with Gallery* herbicide and applied preemergence to broaden the spectrum of broadleaf weed control in ornamental areas. Applied as directed, these Surflan WDG tank mixes will provide control of susceptible weed species listed on the respective labels. Refer to tank mix product labels for specific use directions, precautions and limitations before use.

Surflan WDG plus glyphosate: Tank mix combinations of Surflan WDG plus glyphosate are recommended to control existing undesirable vegetation. Applied as directed, Surflan WDG plus glyphosate will provide postemergence control of susceptible weed species listed on the label for glyphosate and residual preemergence control of susceptible weed species listed on the label for Surflan WDG. Refer to the label for glyphosate for specific use directions, precautions and limitations before use.

Precautions:

Do not apply sprays containing glyphosate over the top of ornamental plants.

Extreme care must be exercised to prevent contact of sprays containing glyphosate with foliage and stems of turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or death may result.

Note: If spraying with glyphosate in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage and stems of desirable plants.

Ornamental Bulbs

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

Special Use Precautions:

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch.

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

Broadcast Application Rates

Time of		Suri	flan WDG	Minimum Time Between Applications	Total Amount Allowed Per Year
Application	Soil Texture	(lb/acre)	(oz/1200 sq ft)	(months)	(lb/acre)
Fall	Coarse	0.88	0.4	3	1.75
Fall	Medium and Fine	1.75	0.8	3	2.65
Feb March	All Soil Textures	0.88	0.4	3	2.65

Greenhouse Areas

Surflan WDG may be applied to drainage areas under benches in open greenhouse-type structures. Do not apply in enclosed greenhouses or in enclosed shadehouse-type structures. Do not apply within three weeks prior to enclosure in greenhouse-type structures.

Christmas Tree Plantations

Surflan WDG Alone

Apply Surflan WDG 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.). Do not apply to Douglas-fir (*Pseudotsuga menziesii*). 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. Follow all instructions provided in the "General Information" section of this label.

Broadcast Application Rates

Length of	Surflan WDG		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(lb/acre)	(oz/1200 sq ft)	(months)	(lb/acre)
2 - 4 months	2.4	1	2	9.4
4 - 8 months	4.7	2	2	9.4

Tank Mix Combinations

Tank mix combinations of Surflan WDG plus other labeled herbicides may be used as directed or 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.

Surflan WDG plus glyphosate: Apply tank mix combinations of Surflan WDG plus glyphosate only as directed sprays in Christmas tree plantings. When applied according to use directions, Surflan WDG plus glyphosate will provide postemergence control of susceptible weed species listed on the glyphosate label and residual preemergence control of susceptible weed species listed on the label for Surflan WDG. Refer to the glyphosate label for specific use directions, precautions and limitations before use.

Precautions:

Do not apply sprays containing glyphosate over the top of Christmas tree plantings. Extreme care must be exercised to avoid contact of spray containing glyphosate with foliage and stems of Christmas trees or severe damage or death may result.

Noncropland Areas and Industrial Sites

Noncropland Areas -- Tank Mix Combinations

Tank mix combinations of Surflan WDG plus glyphosate and many other labeled herbicides may be used to control undesirable vegetation in noncropland areas. 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.

Length of	Surflan WDG		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	_(lb/acre)	(oz/1000 sq ft)	(months)	(lb/acre)
2 - 4 months	2.4	1	2	7
4 -8 months	4.7	2	4	14
8 - 12 months	7.1	3	8	14

Industrial Sites -- Tank Mix Combinations

Tank mix combinations of Surflan WDG plus glyphosate, Spike 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 limitation before use.



Warm Season Turfgrasses

Surflan WDG 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. Surflan WDG 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 herbicide for specific use directions, precautions, and limitations before use.

Successful preemergence control of weeds listed on this label requires that Surflan WDG be applied prior to weed germination and be activated by at least one-half (1/2) inch of rainfall or irrigation within 21 days of application.

Special Use Precautions:

To avoid possible injury, do not apply Surfian WDG to:

- · Cool season turfgrass species.
- Golf course putting greens or tees or lawns containing dichondra or cool season turfgrass species.
- Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, or zoysiagrass until these turfs 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.

Surfian WDG will not control emerged weeds.

Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of Surflan WDG.

Surflan WDG 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 Surflan WDG only to healthy, well-established turf that has a well-anchored root system.

Use Surflan WDG only as a part of a total turf management program that includes good fertilization practices.

Do not apply Surflan WDG 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 to 80 pounds per acre in early summer (Round 1) and Surflan WDG at 1.75 pounds per acre twelve weeks later (Round 2). Do not apply Surflan WDG at the single application rate (2.4 pounds per acre) to established tall fescue; in such cases, apply 1.75 pounds per acre of Surflan WDG in an initial application, followed by a second application of 1.75 pounds per acre 12 weeks later.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of Surflan WDG will thin the overseeded grasses.



Annual Grasses Controlled by Surflan WDG Specialty Herbicide

Summer Annuals:

Common Name

Scientific Name

barnyardgrass

Echinochloa crus-galli

(watergrass)

crabgrass, large

Digitaria sanguinalis

crabgrass, smooth

Digitaria ischaemum

crabgrass

Digitaria spp.

crowfootgrass

Dactyloctenium aegyptium

foxtail, bristlegrass foxtail, giant

Setaria magna Setaria faberi

foxtail, green

Setaria viridis

(pigeongrass)

foxtail, robust

Setaria robusta Setaria glauca

foxtail, yellow goosegrass

Eleusine indica

(silver crabgrass)

Johnsongrass

Sorghum halepense

(seedling only)

ryegrass, Italian sandbur, field

Lolium multiflorum

Cenchrus incertus

Winter Annuals:

Common Name

Scientific Name

bluegrass, annual

Poa annua

Annual Broadleaf Weeds Controlled by Surflan WDG Specialty Herbicide

Summer Annuals:

Common Name

Scientific Name

carpetweed

Mollugo verticillata Polygonum aviculare

knotweed, prostrate pursiane, common

Portulaca oleracea

Winter Annuals:

Common Name

Scientific Name

chickweed, common

Stellaria media

henbit

Lamium amplexicaule

Broadleaf Weeds Suppressed by Surflan WDG Specialty Herbicide

Common Name

Scientific Name

groundsel, common spurge, prostrate

Senecio vulgaris Euphorbia humistrata

woodsorrel, yellow

Oxalis stricta

Application Rates, Frequency and Timing of Application

Surflan WDG 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)

	Surflan WDG		Minimum Time Between Applications	Total Amount Allowed Per Year
Use Area	(lb/acre)	(fl oz/1200 sq ft)	(months)	(lb/acre)
All, except	1.75	0.8	3	7
Florida	2.4	1	3	7
Florida	1.75	0.8	3	5.3

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 2.4 pounds per acre of Surflan WDG per acre 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, Surflan WDG 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 1.75 pounds per acre of Surflan WDG in an initial application, followed by a second application of 1.75 pounds per acre 12 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial Surflan WDG application.

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 Surflan WDG 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 Surflan WDG at 1.75 pounds per acre. If thinning of turfgrass cover is not a potential problem, Surflan WDG may be applied at 2.4 pounds per acre.

Weed Control in Florida

In Florida, apply 1.75 pounds per acre of Surflan WDG three times per year, or every 90 to 100 days, in the fall, early spring, and early summer. Do not apply more than 1.75 pounds per acre of Surflan WDG in any single application.

Application Equipment

Apply Surflan WDG 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 Surflan WDG. 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 Surflan WDG 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.



IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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