

Surflan 75W Water Soluble Package / Draft Amend for RED / 11-07-05

page 1



(Container Label)

Surflan® 75W

Water Soluble Package

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
 Non-bearing trees benches
- Ornamental bulbs
- · Ground covers

- Christmas tree plantations
- Noncropland
- 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-N4N4dipropylsulfanilamide......75% Inert Ingredients25% Total100%

Contains 0.75 pounds of active ingredient per pound of product.

Keep Out of Reach of Children

CAUTION

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.)

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. ACCEPTED

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

DEC 28 2005 Under the Federal Incecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

70506-42

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

Engineering Controls Statements

When handlers use closed systems, 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 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.

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 National Pesticide Information Center at 1-800-858-7378.

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

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.

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

EPA Reg. No. 70506-42

EPA Est. No.



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

Specialty Herbicide

6 x 4 x 1.3 lb Water Soluble Packets



[Label Booklet]

Surflan® 75W

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Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE) and User Safety Recommendations, and Directions for Use including Storage and Disposal.

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[Page 2 of Booklet]

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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

Handling Precautions for Water Soluble Packets

Do not remove water soluble packet from foil overpack except for immediate use. Do not allow water soluble packet to come in contact with water prior to use. Do not handle water soluble packet with wet hands. Carefully reseal package containing unopened foil pouches after use and protect package from moisture.

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, 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 the use of this product may be used according to label directions or disposed of at an approved waste disposal facility.

Container Disposal: Dispose of overpack in a sanitary landfill or by incineration, or, if allowed by state or local authorities, by burning. If burned, stay out of smoke.



General Information

Surflan 75W 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 75W 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 75W 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 75W may also be applied with mulch colorants, such as Mulch Magic or Nu-Mulch.

Users who wish to use Surflan 75W 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 selective to the target plant species. The user assumes responsibility for any crop damage or other liability resulting from use of Surflan 75W on plant species not recommended on this label.

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

Do not aerially apply this product.

Soil Preparation

Surflan 75W 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 75W - Alone

Make sure spray tank is clean and use only clean water. Fill spray tank 1/2 to 3/4 full. Start agitation. Add the required number of water soluble packets to the spray tank. Allow time for complete mixing of Surflan 75W after packets have disintegrated. Continue agitation and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Surflan 75W Tank Mix Combinations

Prior to mixing, read and carefully follow all label instructions and precautions for each product added to the tank mixture. Vigorous, continuous agitation is required for all Surflan 75W tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks.

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

Mixing Order: Fill the tank 3/4 full with clean water. Start agitation and add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: dry flowables (DF); Surflan 75W and other wettable powders (WP); aqueous suspensions (AS), flowables (F) and liquids (L); solutions (S); and emulsifiable concentrates (EC).

7/20

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

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Adding the slurried material to the spray tank through a 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 75W as a directed spray to the soil surface or overtop of plants using a vehicle-mounted or pull-type sprayer. Apply the appropriate rate of Surflan 75W 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 75W to the treated area. The volume of water used is not critical, as long as the desired rate of Surflan 75W 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 75W 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.

Activation and Cultivation

Surflan 75W 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 75W. A minimum of one-half (1/2) inch of rain or its equivalent in sprinkler irrigation is necessary to activate Surflan 75W. 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 75W 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.

Weeds Controlled by Surflan 75W

Annual Grasses:

Common Name barley, little barnyardgrass

(watergrass)

bluegrass, annual crabgrass, large

crabgrass, smooth crowfootgrass

cupgrass, southwestern foxtail, bristlegrass foxtail, giant

foxtail, green (pigeongrass)

foxtail, robust foxtail, yellow

goosegrass

(silver crabgrass)

Scientific Name

Hordeum pusillum Echinochloa crus-galli

Poa annua

Digitaria sanguinalis Digitaria ischaemum Dactyloctenium aegyptium

Eriochloa gracilis Setaria magna Setaria faberi Setaria viridis

Setaria robusta Setaria glauca Eleusine indica



johnsongrass

Sorghum halepense

(seedling only)

junglerice lovegrass, Mexican lovegrass, orcutt oat, wild

Echinochloa colonum Eragrostis mexicana Eragrostis orcuttiana Avena fatua

panicum, browntop panicum, fall

Panicum fasciculatum Panicum dichotomiflorum

(spreading panicgrass)

panicum, texas Panicum texanum

(buffalograss) (Coloradograss)

ryegrass, italian sandbur, field signalgrass (brachiana) sprangletop, red witchgrass

Lolium multiflorum Cenchrus incertus Brachiaria spp. Leptochloa filiformis Panicum capillare

Broadleaf Weeds:

Common Name

bittercress carpetweed chickweed, common fiddleneck, coast filaree, redstem filaree, whitestem

groundsel, common henbit knotweed, prostrate lambsquarters pigweed, prostrate pigweed, redroot pigweed, spring pigweed, tumble puncturevine pursiane, common pusley, Florida (Florida purslane) (Mexican clover)

Scientific Name

Mollugo verticillata Stellaria media Amsinckia intermedia Erodium cicutarium Erodium moschatum Senecio vulgaris Lamium amplexicaule Polygonum aviculare Chenopodium album Amaranthus blitoides Amaranthus retroflexus Amaranthus hybridus Amaranthus albus Tribulus terrestris Portulaca oleracea Richardia scabra

Cardamine oligosperma

(pusley) rocket, London rockpurslane, desert shepherdspurse spurge, prostrate woodsorrel, yellow

Sisymbrium irio Calandrinia ciliata Capsella bursa-pastoris Euphorbia humistrata

Oxalis stricta

Weeds Suppressed by Surflan 75W

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

Common Name horseweed ladysthumb lettuce, prickly

Scientific Name Convza canadensis Polygonum persicaria Lactuca serriola

mallow, common milkweed, climbing Malva neglecta

morningglory

Sarcostemma cynanchoides

mustard, black mustard, wild nightshade, black ragweed, common smartweed

Ipomoea spp. Brassica nigra Brassica kaber Solanum nigrum Ambrosia artemisiifolia

sowthistle, annual spurge, spotted

Polygonum pensylvanicum Sonchus oleraceus Euphorbia maculata

teaweed (prickly sida)

Sida spinosa

velvetleaf

Abutilon theophrasti

wheat, volunteer

Triticum spp.

Approved Uses

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 75W 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.

For soils treated with Surflan 75W 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 packet per acre rate of Surflan 75W or crop injury may occur. After the ice plant is well established, a second application may be made.

Broadcast Application Rates

	Length of	Surflan 75W		Minimum Time Between Applications	Total Amount Allowed Per Year
Labeled Use Site	Control	(lb/acre)	(packets/acre)	(months)	(lb/acre)
Landscape	2 - 4 months	2.6	2	. 2	10.7
Ornamentals	3 - 6 months	4	3	4	16
	4 - 8 months	5.2	4	4	16
Field-grown and	2 - 4 months	2.6	2	3	10.7
container-grown	3 - 6 months	4	3	3	16
ornamentals	4 - 8 months	5.2	4	3	16



Recommended Species Including Fruit Plant Nursery Liners

Surflan 75W 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 75W 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 75W 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 abelia, glossy acacia, prostrate agave

andromeda apple

arborvitae, American arborvitae, Oriental ash *Fraxinus* spp. 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

caladium, fancy leafed California laurel

campanula (beliflower) cape marigold

carpet bugle

cassia, feathery cherry, Mahaleb cherry, sweet

chrysanthemum, florists cleyera, Japanese coneflower, purple

coreopsis

cotoneaster, bearberry cotoneaster, brightbead

Scientific Name

Abelia grandiflora Acacia redolens Agave macroculmis Pieris japonica Malus spp. Thuja occidentalis Platycladus orientalis

Stokesia laevis

Astilbe chinensis and A. chinensis hybrids Rhododendron spp. Gypsophila paniculata Berberis thunbergii Campanula elatines

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

li de

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 escallonia

eucalyptus, mealy

eucalyptus, narrow-leaved

eucalyptus, red euonymus, evergreen euonymus, stringybark euonymus, winged falsecypress, Lawson

fatshedera fir, alpine fir, balsam fir, fraser fir, grand fir, Vietch fir, white firethorn

firethorn, formosa firethorn, scarlet forsythia, border

gardenia gazania, trailing

geranium (Pelargonium)

geum ginkgo

garden gladiolus goldenrain tree

heavenly bamboo (Nandina) hibiscus, Chinese holly, Chinese

holly, English holly, Japanese honeysuckle, Japanese honeysuckle, Mexican hopseedbush, clammy

ice plant

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 Comus kousa

Rhipsalidopsis gaertneri Escallonia exoniensis Eucalyptus cinerea Eucalyptus nicholii Eucalyptus sideroxylon Euonymus japonica Euonymus fortunei Euonymus alata

Chamaecyparis lawsoniana

Fatshedera lizei
Abies lasiocarpa
Abies balsamea
Abies fraseri
Abies grandis
Abies veitchi
Abies concolor
Pyracantha, fortuneana

Pyracantha skoidzumi
Pyracantha coccinea
Forsythia intermedia
Gardenia jasminoides
Gazania rigens leucolaena
Pelargonium hortorum
Geum quellyon
Ginkgo biloba
Gladiolus hortulanus
Koelreuteria paniculata
Nandina domestica

Hibiscus rosa-sinesis Ilex cornuta Ilex aquifolium Ilex crenata Lonicera japonica Justicia spicigera Dodonaea viscosa

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

leucothoe, droopingLeucothoe fontanesiallilac, commonSyringa vulgarislily, plantainHosta spp.lilyturf, bigblueLiriope muscarilily-of-the-NileAgapanthus africanuslinden, little leafTilia cordata

magnolia, southern Magnolia grandiflora

manzanita, Stanford Arctostaphylos stanfordiana

maple Acer spp.
marigold Tagetes spp.
mockorange Philadelphus spp.
moss, rose Portulaca grandiflora
myoporum, prostrate Myoporum parvifolium
myrtle, true Myrtus communis

myrtle, true oak Quercus spp.

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-of-Sharon (Shrubalthea)

Russian olive

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 lucidum
Ligustrum vicaryi
Ligustrum japonicum
Protea neriifolia
Ranunculus asiaticus
Cercis canadensis
Juniperus virginiana
Thuja plicata

Ligustrum amurense

Sequoia sempervirens Rhaphiolepsis indica Rhododendron spp.

Rosa spp.

Hibiscus syriacus Elaeagnus angustifolia



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

yewTaxus media yew, Japanese

yewpine

yucca, pendulous yucca, soaptree zinnia, common 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

Viburnum tinus Virbunum suspensum Weigela florida Euonymus fortunei Xylosma congestum

Achillea spp. Ilex vomitoria

Taxus cuspidata

Podocarpus macrophyllus

Yucca recurvifolia Yucca elata Zinnea elegans

Surflan 75W May be Used on the Following Container-Grown Plants:

Common Name

andromeda arborvitae. American arborvitae, Oriental astilbe/false spirea barberry. Japanese

belifiower
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 escalionia Scientific Name Pieris japonica

Thuja occidentalis Platycladus orientalis Astilbe chinensis and Berberis thunbergii Campanula elatines Liatris spicata Dicentra spectabilis Callistemon citrinus Buxus sempervirens Syzygium paniculata Cleyera 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

14/20

euonymus, evergreen euonymus, stringybark

fatshedera firethorn firethorn, formosa firethorn, scarlet gardenia

ginkgo holly, Chinese holly, Japanese

jerseytea, redroot

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

oleander orange, ornamental pecan, ornamental photinia

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

rhaphiolepsis (India hawthorn)

rhododendron russian olive shrimp plant spruce, Colorado sumac, African sweetnum, American

sweetgum, American trumpet vine, violet viburnum, Laurustinus

wintercreeper yaupon yucca, soaptree Euonymus japonica Euonymus fortunei Fatshedera lizei Pyracantha, fortuneana Pyracantha skoidzumi

Pyracantha coccinea Gardenia jasminoides Ginkgo biloba Ilex cornuta

llex crenata

Ceanothus americanus

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

Tilia cordata Philadelphus spp. Myrtus communis

Nerium oleander
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

Surflan 75W May be Used on the Following Field Grown Fruit Plant Nursery Liners[†]:

almond apple apricot avacado grapefruit kiwi lemon

macadamia nut

pear pecan pistachio plum

cherry nectarine fig olive

pomegranate Prune

filbert grape orange wainut, English

Small Fruits:

blackberry

currant

gooseberry



blueberry boysenberry dewberry elderberry loganberry raspberry

Tank Mix Combinations

Tank mix combinations of Surflan 75W plus glyphosate, and many other labeled herbicides may be used to control undesirable vegetation in ornamental areas. Surflan 75W may also be tank mixed with Gallery* herbicide (California registration pending) and applied preemergence to broaden the spectrum of broadleaf weed control in ornamental areas. Applied as directed, these tank mixes of Surflan 75W 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 75W Plus glyphosate: Tank mix combinations of Surflan 75W plus glyphosate are recommended to control existing undesirable vegetation. Applied as directed, Surflan 75W 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 Surflan 75W label. 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 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 75W may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth and tulip. Apply Surflan 75W to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. For fall planted bulbs, apply Surflan 75W 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		Surflan 75W		Minimum Time Between Applications	Total Amount Allowed Per Year
Application	Soil Texture	(lb/acre)	(packets/acre)	(months)	(lb/acre)
Fall	Coarse	1	0.75	3	2
Fall	Medium and Fine	_2	1.5	3	3
Feb Mar.	All Soil Textures	1	0.75	3	3

Greenhouse Areas

Surflan 75W may be applied to drainage areas under benches in open greenhouse-type structures. Do not apply in enclosed greenhouses or in enclosed shade house-type structures. Do not apply within three weeks prior to enclosure in greenhouse-type structures.

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



Christmas Tree Plantations

Surflan 75W Alone

Apply Surflan 75W 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 75W		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(lb/acre)	(packets/acre)	(months)	(lb/acre)
2 - 4 months	2.6	2	2	10.6
4 - 8 months	5.2	4	2	10.6

Tank Mix Combinations

Tank mix combinations of Surflan 75W 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 75W Plus glyphosate: Apply tank mix combinations of Surflan 75W plus glyphosate only as directed sprays in Christmas tree plantings. When applied according to use directions, Surflan 75W 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 Surflan 75W label. 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 75W 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.

Broadcast Application Rates

Length of	Surflan 75W		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(lb/acre)	(packets/acre)	(months)	(lb/acre)
2 - 4 months	2.6	2	2	6
4 -8 months	5.2	4	4	12
8 - 12 months	8	6	4	12



Industrial Sites -- Tank Mix Combinations

Tank mix combinations of Surflan 75W 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 75W 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 75W 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 of Gallery for specific use directions, precautions, and limitations before use.

Successful preemergence control of weeds listed on this label requires that Surflan 75W 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 Surflan 75W 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.

Surflan 75W 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 75W.

Surflan 75W 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. Apply Surflan 75W only to healthy, well-established turf that is well-anchored.

Use Surflan 75W only as a part of a total turf management program that includes good fertilization practices.

Do not apply Surflan 75W 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 75W at a rate of 1 packet per 0.67 acre (2 pounds per acre) approximately eight weeks later (Round 2). Do not apply Surflan 75W at the single application rate of 1 packet per acre (2.6 pounds per acre) to established tall fescue; in such cases, apply 1 packet per 0.67 acre (2 pounds per acre) of Surflan 75W in an initial application, followed by a second application of 1 packet per 0.67 acre 8 to 10 weeks later.

In bermudagrass areas that have been overseeded with winter grasses, a spring application of Surflan 75W will thin the overseeded grasses.



Annual Grasses Controlled by Surflan 75W

Summer Annuals:

Common Name

Scientific Name

barnyardgrass

Echinochloa crus-galli

(Watergrass)

crabgrass, large crabgrass, smooth Digitaria sanguinalis Digitaria ischaemum

crabgrass Digitaria spp.

crowfootgrass foxtail, bristlegrass foxtail, giant

Dactyloctenium aegyptium Setaria magna

Setaria faberi Setaria viridis foxtail, green

(Pigeongrass)

foxtail, robust foxtail, yellow goosegrass

Setaria robusta Setaria glauca 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 Surfian 75W

Summer Annuals:

Common Name

Scientific Name

carpetweed knotweed, prostrate

Mollugo verticillata Polygonum aviculare

pursiane, common

Portulaca oleracea

Winter Annuals:

Common Name

Scientific Name

chickweed, common

Stellaria media

henbit

Lamium amplexicaule

Broadleaf Weeds Suppressed by Surflan 75W

Common Name

Scientific Name 1

groundsel, common spurge, prostrate

Senecio vulgaris Euphorbia humistrata

woodsorrel, yellow

Oxalis stricta

Application Rates, Frequency and Timing of Application

Surflan 75W 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 75W		Minimum Time Between Applications	Total Amount Allowed Per Year	
Use Area	(lb/acre)	(packets/acre)	(months)	(lb)	
All, except	2	1.5	3	8	
Florida	2.6	2	3	8	
Florida	2	1.5	3	6	

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 2 to 3 packets (2.6 to 3.9 pounds) of Surflan 75W per acre in late winter or early spring, prior to the onset of conditions favorable for annual weed germination. Apply at a rate of 3 packets (3.9 pounds)per acre in areas with a longer growing season or where control of weeds is required for a longer period of time

Split Application Program: As an alternative to a single application program, Surflan 75W 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 at a rate of 1 packet (2 pounds per acre) per 0.67 acre in an initial application, followed by a second application of 1 packet per 0.67 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 application of Surflan 75W.

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 75W 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 75W at a rate of 1 packet per 0.67 acre (2 pounds per acre). If thinning of turfgrass cover is not a potential problem, Surflan 75W may be applied at a rate of 2 packets per acre (2.6 pounds per acre)

Weed Control in Florida: In Florida, apply at a rate of 1 packet per 0.67 acre (2 pounds per acre) of Surflan 75W three times per year, or every 90 to 100 days, in the fall, early spring, and early summer. Do not apply more than 1 packet per 0.67 acre (2 pounds) of Surflan 75W in any single application.

Application Equipment

Apply Surflan 75W 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 75W. When reseeding, it is essential that proper cultural practices such as soil cultivation and seedbed preparation, irrigation and fertilization be followed. For satisfactory reseeding results following use of Surflan 75W, 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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