

70506-42

11-24-2010

1/22



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

United Phosphorus, Inc.
Rebecca A. Clemmer
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

NOV 24 2010

Subject: Label Notification for Pesticide Registration Notice 2007-4
Surflan 75W
EPA Reg. No. 70506-42
Application Dated: August 18, 2010

Dear Ms. Clemmer,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 for Surflan 75W (EPA Reg. No. 70506-42) dated August 18, 2010. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action requested falls within the scope of PRN 2007-4.

We have also reviewed the updates to company and emergency contact information and updated warranty and find that these actions fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at (703) 305-1243.

Sincerely,

A handwritten signature in cursive script that reads "Kathryn V. Montague".

Kathryn V. Montague, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

<p>United States Environmental Protection Agency Washington, DC 20460</p>	<input type="checkbox"/>	Registration	OPP Identifier Number
	<input type="checkbox"/>	Amendment	
	<input checked="" type="checkbox"/>	Other	

Application for Pesticide - Section I

1. Company/Product Number 70506-42		2. EPA Product Manager Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted	
4. Company/Product (Name) United Phosphorus, Inc/Surflan 75W		PM # 23		
5. Name and Address of Applicant (Include ZIP Code) United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg No. _____ Product Name _____		

Section - II

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

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

Notification of label changes per PR Notice 2007-4 and PR 98-10. This notification is consistent with the guidance in PRN 2007-4 and PRN 98-10 and the requirements of EPA's regulations at 40CFR§152.46, 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:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
*Certification must be submitted		If "Yes" Unit Packaging wgt. _____ No. per container _____	If "Yes" Package wgt. _____ No. per container _____

3. Location of Net Contents Information: Label Container

4. Size(s) Retail Container: 6 x 4 x 1.3 lb water soluble packets

5. Location of label directions: On Label On Label accompanying product

6. Manner in Which Label is Affixed to Product: Lithograph Paper glued Stenciled Other _____

Section IV

1. Contact Person (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Rebecca A. Clemmer	Title Regulatory Manager	Telephone No. (Include Area Code) 610-491-2828
----------------------------	-----------------------------	---

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law

2. Signature 	3. Title Regulatory Manager
4. Typed Name Rebecca A. Clemmer	5. Date August 18, 2010

6. Date Application Received (Stamped)



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

August 19, 2010

Kathryn Montague (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: Notification of Container Disposal Changes per PRN 2007-4

Dear Ms. Montague:

United Phosphorus, Inc. is providing Notification of the following changes in the labels for products listed below: container disposal wording per PRN 2007-4; updates to company and emergency contact information and updated warranty per PRN 98-10.

Products:

Surflan 75WSP – EPA Reg. No. 70506-40
Surflan 75W – EPA Reg. No. 70506-42
Surflan 0.25 A.S. – EPA Reg. No. 70506-47
Surflan 75W Manufacturing Use Product – EPA Reg. No. 70506-54

In support, for each product you will find:

- copy of the label marked to show changes
- EPA form 8570-1

Please contact me if you have any questions.

Very truly yours,

A handwritten signature in cursive script that reads "R. A. Clemmer".

Rebecca A. Clemmer
rebecca.clemmer@uniphos.com



4
22

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 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)

**NOTIFICATION
NOV 24 2010**

Active Ingredient:

oryzalin: 3,5-dinitro-*N*⁴*N*⁴-dipropylsulfanilamide..... 75%

Inert/Other Ingredients..... 25%

Total..... 100%

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.)

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 Rocky Mountain Poison Control Center at 1-800-858-7378/866-673-6671.

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. 70506-42

EPA Est. No.



United Phosphorus, Inc.
423 Riverview Plaza, 630 Freedom Business Center
Trenton, NJ 08611 King of Prussia, PA 19406
1-800-247-4557/438-6071 • www.upi-usa.com

Specialty Herbicide

Net Contents 6x4x1.3 lb water soluble packets



5
22

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 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/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. 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

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: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of everpack the empty outer pouch in the trash as long as WSP is unbroken in a sanitary landfill or by incineration, or, if allowed by state or local authorities, by burning. If burned, stay out of smoke.

Formatted: Font: Not Bold



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).



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 otop 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	Scientific Name
barley, little	<i>Hordeum pusillum</i>
barnyardgrass (watergrass)	<i>Echinochloa crus-galli</i>
bluegrass, annual	<i>Poa annua</i>
crabgrass, large	<i>Digitaria sanguinalis</i>
crabgrass, smooth	<i>Digitaria ischaemum</i>
crowfootgrass	<i>Dactyloctenium aegyptium</i>
cupgrass, southwestern	<i>Eriochloa gracilis</i>
foxtail, bristlegrass	<i>Setaria magna</i>
foxtail, giant	<i>Setaria faberi</i>
foxtail, green (pigeongrass)	<i>Setaria viridis</i>
foxtail, robust	<i>Setaria robusta</i>
foxtail, yellow	<i>Setaria glauca</i>
goosegrass (silver crabgrass)	<i>Eleusine indica</i>
johnsongrass	<i>Sorghum halepense</i>



(seedling only)	
junglerice	<i>Echinochloa colonum</i>
lovegrass, Mexican	<i>Eragrostis mexicana</i>
lovegrass, orcutt	<i>Eragrostis orcuttiana</i>
oat, wild	<i>Avena fatua</i>
panicum, browntop	<i>Panicum fasciculatum</i>
panicum, fall	<i>Panicum dichotomiflorum</i>
(spreading panicgrass)	
panicum, texas	<i>Panicum texanum</i>
(buffalograss)	
(Coloradograss)	
ryegrass, italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>
signalgrass (brachiana)	<i>Brachiaria</i> spp.
sprangletop, red	<i>Leptochloa filiformis</i>
witchgrass	<i>Panicum capillare</i>

Broadleaf Weeds:

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

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	Scientific Name
horseweed	<i>Conyza canadensis</i>
ladysthumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
mallow, common	<i>Malva neglecta</i>



milkweed, climbing	<i>Sarcostemma cynanchoides</i>
morningglory	<i>Ipomoea</i> spp.
mustard, black	<i>Brassica nigra</i>
mustard, wild	<i>Brassica kaber</i>
nightshade, black	<i>Solanum nigrum</i>
ragweed, common	<i>Ambrosia artemisiifolia</i>
smartweed	<i>Polygonum pensylvanicum</i>
sowthistle, annual	<i>Sonchus oleraceus</i>
spurge, spotted	<i>Euphorbia maculata</i>
teaweed (prickly sida)	<i>Sida spinosa</i>
velvetleaf	<i>Abutilon theophrasti</i>
wheat, volunteer	<i>Triticum</i> 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 *Carpobrotus 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

Labeled Use Site	Length of Control	Surflan 75W		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
		(lb/acre)	(packets/acre)		
Landscape Ornamentals	2 - 4 months	2.6	2	2	10.7
	3 - 6 months	4	3	4	16
	4 - 8 months	5.2	4	4	16
Field-grown and container-grown ornamentals	2 - 4 months	2.6	2	3	10.7
	3 - 6 months	4	3	3	16
	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	Scientific Name
abelia, glossy	<i>Abelia grandiflora</i>
acacia, prostrate	<i>Acacia redolens</i>
agave	<i>Agave macroculmis</i>
andromeda	<i>Pieris japonica</i>
apple	<i>Malus</i> spp.
arborvitae, American	<i>Thuja occidentalis</i>
arborvitae, Oriental	<i>Platyclusus orientalis</i>
ash <i>Fraxinus</i> spp.	
aster, stokes	<i>Stokesia laevis</i>
astilbe/false spirea	<i>Astilbe chinensis</i> and <i>A. chinensis hybrids</i>
azalea	<i>Rhododendron</i> spp.
baby's breath	<i>Gypsophila paniculata</i>
barberry, Japanese	<i>Berberis thunbergii</i>
bellflower	<i>Campanula elatines</i>
birch, river	<i>Betula nigra</i>
birch, white	<i>Betula pendula</i>
bird of paradise	<i>Strelitzia reginae</i>
blazing star	<i>Liatris spicata</i>
bleeding heart	<i>Dicentra spectabilis</i>
bottlebrush, lemon	<i>Callistemon citrinus</i>
boxwood, common	<i>Buxus sempervirens</i>
boxwood, Japanese	<i>Buxus microphylla japonica</i>
brush cherry	<i>Syzygium paniculata</i>
caladium, fancy leafed	<i>Caladium bicolor</i>
California laurel	<i>Umbellularia californica</i>
campanula (bellflower)	<i>Campanula</i> spp.
cape marigold	<i>Dimorphotheca</i> spp.
carpet bugle	<i>Ajuga</i> spp.
cassia, feathery	<i>Cassia artemisioides</i>
cherry, Mahaleb	<i>Prunus mahaleb</i>
cherry, sweet	<i>Prunus avium</i>
chrysanthemum, florists	<i>Chrysanthemum morifolium</i>
cleyera, Japanese	<i>Cleyera japonica</i>
coneflower, purple	<i>Echinacea purpurea</i>
coreopsis	<i>Coreopsis lanceolata</i>
cotoneaster, bearberry	<i>Cotoneaster dammeri</i>
cotoneaster, brightbead	<i>Cotoneaster buxifolius</i>
cotoneaster, cranberry	<i>Cotoneaster apiculatus</i>

- | | |
|--|--------------------------------------|
| cotoneaster, parney | <i>Cotoneaster lacteus</i> |
| cotoneaster, Pyrenees | <i>Cotoneaster congestus</i> |
| cotoneaster, rock | <i>Cotoneaster horizontalis</i> |
| cotoneaster, rockspray | <i>Cotoneaster microphyllus</i> |
| cottonwood | <i>Populus deltoides</i> |
| (grown for pulp) | |
| coyotebush, dwarf | <i>Baccharis pilularis</i> |
| crape myrtle, common | <i>Lagerstroemia indica</i> |
| cryptomeria, Japanese | <i>Cryptomeria japonica</i> |
| cypress, Arizona | <i>Cupressus arizonica (glabra)</i> |
| cypress, Italian | <i>Cupressus sempervirens</i> |
| daisy, gloriosa | <i>Rudbeckia hirta</i> |
| (black-eyed Susan) | |
| daisy, painted | <i>Chrysanthemum coccineum</i> |
| daisy, shasta | <i>Chrysanthemum maximum</i> |
| daisy, trailing African | <i>Osteospermum fruticosum</i> |
| daylily | <i>Hemerocallis spp.</i> |
| dogwood, flowering | <i>Cornus florida</i> |
| dogwood, kousa | <i>Cornus kousa</i> |
| eastercactus | <i>Rhipsalidopsis gaertneri</i> |
| escallonia | <i>Escallonia exoniensis</i> |
| eucalyptus, mealy | <i>Eucalyptus cinerea</i> |
| eucalyptus, narrow-leaved | <i>Eucalyptus nicholii</i> |
| eucalyptus, red | <i>Eucalyptus sideroxylon</i> |
| euonymus, evergreen | <i>Euonymus japonica</i> |
| euonymus, stringybark | <i>Euonymus fortunei</i> |
| euonymus, winged | <i>Euonymus alata</i> |
| falsecypress, Lawson | <i>Chamaecyparis lawsoniana</i> |
| fatshedera | <i>Fatshedera lizei</i> |
| fir, alpine | <i>Abies lasiocarpa</i> |
| fir, balsam | <i>Abies balsamea</i> |
| fir, fraser | <i>Abies fraseri</i> |
| fir, grand | <i>Abies grandis</i> |
| fir, Vietch | <i>Abies veitchi</i> |
| fir, white | <i>Abies concolor</i> |
| firethorn | <i>Pyracantha, fortuneana</i> |
| firethorn, formosa | <i>Pyracantha skoidzumi</i> |
| firethorn, scarlet | <i>Pyracantha coccinea</i> |
| forsythia, border | <i>Forsythia intermedia</i> |
| gardenia | <i>Gardenia jasminoides</i> |
| gazania, trailing | <i>Gazania rigens leucolaena</i> |
| geranium (Pelargonium) | <i>Pelargonium hortorum</i> |
| geum | <i>Geum quellyon</i> |
| ginkgo | <i>Ginkgo biloba</i> |
| garden gladiolus | <i>Gladiolus hortulanus</i> |
| goldenrain tree | <i>Koelreuteria paniculata</i> |
| heavenly bamboo (Nandina) | <i>Nandina domestica</i> |
| hibiscus, Chinese | <i>Hibiscus rosa-sinesis</i> |
| holly, Chinese | <i>Ilex cornuta</i> |
| holly, English | <i>Ilex aquifolium</i> |
| holly, Japanese | <i>Ilex crenata</i> |
| honeysuckle, Japanese | <i>Lonicera japonica</i> |
| honeysuckle, Mexican | <i>Justicia spicigera</i> |
| hopseedbush, clammy | <i>Dodonaea viscosa</i> |
| ice plant | <i>Mesembryanthemum crystallinum</i> |
| (See precautions for ornamental plantings) | |
| ice plant, largeleaf | <i>Carpobrotus edulis</i> |
| (See precautions for ornamental plantings) | |



12
12

impatiens (busy lizzie)
iris, bearded
ivy, Algerian
ivy, English
jerseytea, redroot
juniper
kumquat
laurel, mountain
laurelcherry, Carolina
laurelcherry, English
leucothoe, coast
leucothoe, drooping
lilac, common
lily, plantain
lilyturf, bigblue
lily-of-the-Nile
linden, little leaf
magnolia, southern
manzanita, Stanford
maple
marigold
mockorange
moss, rose
myoporum, prostrate
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
rhapsiolepis (India hawthorn)
rhododendron
rose
rose-of-Sharon (*Shrubalthea*)
Russian olive
sage
shrimp plant
snapdragon

Impatiens wallerana
Iris spp.
Hedera canariensis
Hedera helix
Ceanothus americanus
Juniperus spp.
Fortunella spp.
Kalmia latifolia
Prunus caroliniana
Prunus laurocerasus
Leucothoe axillaris
Leucothoe fontanesiana
Syringa vulgaris
Hosta spp.
Liriope muscari
Agapanthus africanus
Tilia cordata
Magnolia grandiflora
Arctostaphylos stanfordiana
Acer spp.
Tagetes spp.
Philadelphus spp.
Portulaca grandiflora
Myoporum parvifolium
Myrtus communis

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
Ranunculus asiaticus
Cercis canadensis
Juniperus virginiana
Thuja plicata
Sequoia sempervirens
Rhaphiolepis indica
Rhododendron spp.
Rosa spp.
Hibiscus syriacus
Elaeagnus angustifolia
Salvia spp.
Justicia brandegeana
Antirrhinum majus



14
22

sotol, desert spoon	<i>Dasyllirion wheeleri</i>
spruce, black	<i>Picea mariana</i>
spruce, Colorado	<i>Picea pungens</i>
spruce, Englemann	<i>Picea englemanni</i>
spruce, Norway	<i>Picea abies</i>
spruce, white	<i>Picea glauca</i>
star jasmine, Chinese	<i>Trachelospermum jasminoides</i>
stonecrop	<i>Sedum brevifolium</i>
sumac, African	<i>Rhus lancea</i>
sweetgum, American	<i>Liquidambar styraciflua</i>
sweet William	<i>Dianthus barbatus</i>
tobira	<i>Pittosporum tobira</i>
trumpet vine, violet	<i>Clytostoma callistegioides</i>
viburnum, Laurustinus	<i>Viburnum tinus</i>
virburnum, Sandankwa	<i>Virburnum suspensum</i>
weigela, oldfashioned	<i>Weigela florida</i>
wintercreeper	<i>Euonymus fortunei</i>
xylosma, Japanese	<i>Xylosma congestum</i>
yarrow	<i>Achillea</i> spp.
yaupon	<i>Ilex vomitoria</i>
yew <i>Taxus media</i>	
yew, Japanese	<i>Taxus cuspidata</i>
yewpine	<i>Podocarpus macrophyllus</i>
yucca, pendulous	<i>Yucca recurvifolia</i>
yucca, soaptree	<i>Yucca elata</i>
zinnia, common	<i>Zinnea elegans</i>

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

Common Name	Scientific Name
andromeda	<i>Pieris japonica</i>
arborvitae, American	<i>Thuja occidentalis</i>
arborvitae, Oriental	<i>Platycladus orientalis</i>
astilbe/false spirea	<i>Astilbe chinensis</i> and
barberry, Japanese	<i>Berberis thunbergii</i>
bellflower	<i>Campanula elatines</i>
blazing star	<i>Liatris spicata</i>
bleeding heart	<i>Dicentra spectabilis</i>
bottlebrush, lemon	<i>Callistemon citrinus</i>
boxwood, common	<i>Buxus sempervirens</i>
brush cherry	<i>Syzygium paniculata</i>
cleysera, Japanese	<i>Cleyera japonica</i>
cotoneaster, bearberry	<i>Cotoneaster dammeri</i>
cotoneaster, cranberry	<i>Cotoneaster apiculatus</i>
cotoneaster, parney	<i>Cotoneaster lacteus</i>
cotoneaster, rock	<i>Cotoneaster horizontalis</i>
crape Myrtle, common	<i>Lagerstroemia indica</i>
cryptomeria, Japanese	<i>Cryptomeria japonica</i>
cypress, Arizona	<i>Cupressus arizonica (glabra)</i>
cypress, Italian	<i>Cupressus sempervirens</i>
daylily	<i>Hemerocallis</i> spp.
dogwood, kousa	<i>Cornus kousa</i>
eastercactus	<i>Rhipsalidopsis gaertneri</i>
escallonia	<i>Escallonia exoniensis</i>
euonymus, evergreen	<i>Euonymus japonica</i>
euonymus, stringybark	<i>Euonymus fortunei</i>
fatshedera	<i>Fatshedera lizei</i>
firethorn	<i>Pyracantha, fortuneana</i>



15
22

firethorn, formosa	<i>Pyracantha skoidzumi</i>
firethorn, scarlet	<i>Pyracantha coccinea</i>
gardenia	<i>Gardenia jasminoides</i>
ginkgo	<i>Ginkgo biloba</i>
holly, Chinese	<i>Ilex cornuta</i>
holly, Japanese	<i>Ilex crenata</i>
jerseytea, redroot	<i>Ceanothus americanus</i>
juniper	<i>Juniperus</i> spp.
kumquat	<i>Fortunella</i> spp.
lilac, common	<i>Syringa vulgaris</i>
lilyturf, bigblue	<i>Liriope muscari</i>
lily-of-the-Nile	<i>Agapanthus africanus</i>
linden, little leaf	<i>Tilia cordata</i>
mockorange	<i>Philadelphus</i> spp.
myrtle, true	<i>Myrtus communis</i>
oak <i>Quercus</i> spp.	
oleander	<i>Nerium oleander</i>
orange, ornamental	<i>Citrus</i> spp.
pecan, ornamental	<i>Carya</i> spp.
photinia	<i>Photinia fraseri</i>
pine	<i>Pinus</i> spp.
pittosporum	<i>Pittosporum</i> spp.
privet, amur	<i>Ligustrum amurense</i>
privet, glossy	<i>Ligustrum lucidum</i>
privet, golden	<i>Ligustrum vicaryi</i>
privet, Japanese	<i>Ligustrum japonicum</i>
redbud	<i>Cercis canadensis</i>
raphiolepis (India hawthorn)	<i>Raphiolepis indica</i>
rhododendron	<i>Rhododendron</i> spp.
russian olive	<i>Elaeagnus angustifolia</i>
shrimp plant	<i>Justicia brandegeana</i>
spruce, Colorado	<i>Picea pungens</i>
sumac, African	<i>Rhus lancea</i>
sweetgum, American	<i>Liquidambar styraciflua</i>
trumpet vine, violet	<i>Clytostoma callistegioides</i>
viburnum, Laurustinus	<i>Viburnum tinus</i>
wintercreeper	<i>Euonymus fortunei</i>
yaupon	<i>Ilex vomitoria</i>
yucca, soaptree	<i>Yucca elata</i>

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

almond	grapefruit	pear
apple	kiwi	pecan
apricot	lemon	pistachio
avacado	macadamia nut	plum
cherry	nectarine	pomegranate
fig	olive	Prune
filbert	orange	walnut, English
grape		

Small Fruits:

blackberry	currant	gooseberry
blueberry	dewberry	loganberry
boysenberry	elderberry	raspberry

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



16
12

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 Application	Soil Texture	Surflan 75W		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
		(lb/acre)	(packets/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.



17
22

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 Control	Surflan 75W		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
	(lb/acre)	(packets/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 Control	Surflan 75W		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
	(lb/acre)	(packets/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.



19
22

Annual Grasses Controlled by Surflan 75W

Summer Annuals:

Common Name	Scientific Name
barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
crabgrass, large	<i>Digitaria sanguinalis</i>
crabgrass, smooth	<i>Digitaria ischaemum</i>
crabgrass	<i>Digitaria spp.</i>
crowfootgrass	<i>Dactyloctenium aegyptium</i>
foxtail, bristlegrass	<i>Setaria magna</i>
foxtail, giant	<i>Setaria faberi</i>
foxtail, green (Pigeongrass)	<i>Setaria viridis</i>
foxtail, robust	<i>Setaria robusta</i>
foxtail, yellow	<i>Setaria glauca</i>
goosegrass (Silver crabgrass)	<i>Eleusine indica</i>
johnsongrass (Seedling only)	<i>Sorghum halepense</i>
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>

Winter Annuals:

Common Name	Scientific Name
bluegrass, annual	<i>Poa annua</i>

Annual Broadleaf Weeds Controlled by Surflan 75W

Summer Annuals:

Common Name	Scientific Name
carpetweed	<i>Mollugo verticillata</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
purslane, common	<i>Portulaca oleracea</i>

Winter Annuals:

Common Name	Scientific Name
chickweed, common	<i>Stellaria media</i>
henbit	<i>Lamium amplexicaule</i>

Broadleaf Weeds Suppressed by Surflan 75W

Common Name	Scientific Name
groundsel, common	<i>Senecio vulgaris</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

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)



20
22

Use Area	Surflan 75W		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb)
	(lb/acre)	(packets/acre)		
All, except Florida	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.



22
22

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 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 and 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.

Surflan is a Registered Trademark of United Phosphorus, Inc.

Rev. 8/18/10
ESL 12/28/05

