



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

DEC 21 1993

Douglas M. Roby
DOWELANCO
Quad IV 9002 Purdue Rd
Indianapolis, In 46268

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/25/93 in Response to PR Notice 93-7
EPA Reg. No. 62719-110
SURFLAN 75W

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.

BEST AVAILABLE COPY



Recycled/Recyclable
Printed with SoyCanada Ink on paper that
contains at least 60% recycled fiber

Page 3

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling as amended

AND

- **WITHIN** one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

BEST AVAILABLE COPY

DOWELANCO
SURFLAN 75W

62719-110 08/25/93

Original Submission

Place the heading "Personal Protective Equipment" on your labeling in the location shown in Section A on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The eyewear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Protective Eyewear".

The exact location is shown in Section A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The statement on your proposed label that references the Agricultural Use Requirements box in your proposed supplemental labeling contains incorrect language. Use the exact text and placement of the referral statement as shown on page 43 in Supplement Three to PR Notice 93-7.

The eyewear requirement for early entry in the Agricultural Use Requirements Box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Protective eyewear". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

WPS Labeling

(Editor's Note: Deleted text indicated by strike-through and added text underlined)
EPA copy dated: 04/29/92

[Container Label -- Surflan 75W Water Soluble Package, 6 x 4 x 1.3 lb]

(logo) DowElanco

ACCEPTED
with COMMENTS
in EPA Letter Dated

Surflan* 75W
Water Soluble Package

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

13915-110

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

- Landscape ornamentals
- Container grown ornamentals
- Field grown ornamentals
- Drainage areas under:
greenhouse benches
- Ornamental bulbs
- Ground covers
- Christmas tree plantations
- Noncropland
- Non-bearing trees and vines
- Industrial sites
- Established warm season turf
(including Bahiagrass,
Bermudagrass,
Buffalograss,
Centipedegrass,
St. Augustinegrass, Tall
Fescue and Zoysiagrass)

Active Ingredient:

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

Inert Ingredients . 25%

Total . 100%

Contains 0.75 pounds of active ingredient per pound of product.

Precautionary Statements

Hazards to Humans and Domestic Animals

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.)

Causes Eye Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

~~Avoid breathing spray mist and contact with skin, eyes, or clothing. Mixer/loader/applicators must wear eye protection. Protective clothing such as coveralls and/or a long-sleeved shirt, shoes, and impermeable gloves should be worn when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

BEST AVAILABLE COPY

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.

First Aid

If in eyes: Flush with plenty of water. Get medical attention if irritation develops.

If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (5-8 heaping teaspoons) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If inhaled: Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation and get medical attention immediately.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

Environmental Hazards

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

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

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

In case of emergency endangering health or the environment involving this product, call collect 511-636-4400.

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

EPA Reg. No. 62719-110

MM DM
EPA Est. 464-MI-1; 5905-AR-1

25714

900-001409

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Herbicide

6 x 4 x 1.3 lb Water Soluble Packets

7:56 AM

August 25, 1993 [TAG]

Page 3

[Booklet - Surflan 75W WSP]
 [Front Cover of Booklet]

(logo) DowElanco

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)

in case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

EPA Reg. No. 62719-110
 25714

900-001409

*Trademark of DowElanco
 DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Herbicide

[Page 2 of Booklet]

Active Ingredient:

oryzalin: 3,5-dinitro-*N,N'*-dipropylsulfanilamido . 75%

Inert Ingredients . 25%

Total . 100%

Contains 0.75 pounds of active ingredient per pound of product.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION PRECAUCION:

Precaucion al usarlo: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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.)

Causes Eye Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

~~Avoid breathing spray mist and contact with skin, eyes, or clothing. Mixer/loader/applicators must wear eye protection. Protective clothing such as coveralls and/or a long-sleeved shirt, shoes, and impemeable gloves should be worn when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Flush with plenty of water. Get medical attention if irritation develops.

If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If inhaled: Remove individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, give artificial respiration, preferably cardiopulmonary resuscitation and get medical attention immediately.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

Environmental Hazards

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

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 12 hours.

Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

STORAGE AND DISPOSAL

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

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

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.

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 tillth 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 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.

Aerial Application

Use a standard aerial herbicide boom sprayer. Aerial spray equipment should be calibrated to apply the proper amount of Surflan 75W alone or in tank mix combinations in 2 to 10 gallons of spray mixture per acre. Nozzle screens and in-line strainers should be no finer than 50 mesh. Surflan 75W mixes readily with water for concentrate aerial sprays; however, constant vigorous agitation that sweeps the contents from the bottom of the spray tank up into the main body of the liquid is required to maintain a uniform suspension until the spray tank is empty. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application. Do not apply when wind conditions favor drift from the target area.

Equipment Cleaning

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

Activation and Cultivation

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:**

<u>Common Name</u>	<u>Scientific Name</u>
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, bristlegass	<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>
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 (spreading panicgrass)	<i>Panicum dichotomiflorum</i>
panicum, Texas (buffalograss) (Coloradograss)	<i>Panicum texanum</i>
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>
signalgrass (Brachiaria)	<i>Brachiaria</i> spp.
sprangletop, red	<i>Leptochloa filiformis</i>
witchgrass	<i>Panicum capillare</i>

Broadleaf Weeds:

<u>Common Name</u>	<u>Scientific Name</u>
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>
lambquarters	<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 (Florida purslane) (Mexican clover) (pusley)	<i>Richardia scabra</i>
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:

<u>Common Name</u>	<u>Scientific Name</u>
horseweed	<i>Conyza canadensis</i>
ladythumb	<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 spp.</i>
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 pennsylvanicum</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 spp.</i>

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

Length of Control	Surflan 75W
Short term (2 to 4 months)	2 packets per acre (2.6 pounds per acre)
Long term (4 to 8 months)	4 packets per acre (5.2 pounds per acre)

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.

<u>Common Name</u>	<u>Scientific Name</u>
abelia, glossy	<i>Abelia grandiflora</i>
acacia, prostrate	<i>Acacia redolens</i>
agave	<i>Agave macrocarpis</i>
andromeda	<i>Pieris japonica</i>
apple	<i>Malus</i> spp.
arborvitae, American	<i>Thuja occidentalis</i>
arborvitae, Oriental	<i>Platycladus orientalis</i>
ash	<i>Fraxinus</i> spp.
aster, stokes	<i>Stokesia laevis</i>
astilbe/false spirea	<i>Astilbe chinensis</i> and <i>A. chinensis</i> hybrids
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
 carpet bugle
 cassia, feathery
 cherry, Mahaleb
 cherry, sweet
 chrysanthemum, florists
 cleyera, Japanese
 coneflower, purple
 coreopsis
 cotoneaster, bearberry
 cotoneaster, brightbead
 cotoneaster, cranberry
 cotoneaster, pamey
 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, frazer
 fir, grand
 fir, Vietch
 fir, white
 firethorn
 firethorn, formosa
 firethorn, scarlet
 forsythia, border
 gardenia
 gazania, trailing
 geranium (Pelargonium)
 geum
 ginkgo
 garden gladiolus
 goldenrain tree

Dimorphotheca spp.
Ajuga spp.
Cassia artemisioides
Prunus mahaleb
Prunus avium
Chrysanthemum morifolium
Cleyera japonica
Echinacea purpurea
Coreopsis lanceolata
Cotoneaster dammeri
Cotoneaster buxifolius
Cotoneaster apiculatus
Cotoneaster lacteus
Cotoneaster congestus
Cotoneaster horizontalis
Cotoneaster microphyllus
Populus deltoides

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

Chrysanthemum coccineum
Chrysanthemum maximum
Osteospermum fruticosum
Hemerocallis spp.
Cornus florida
Cornus kousa
Rhipsalidopsis gaertneri
Escallonia exoniensis
Eucalyptus cinerea
Eucalyptus nicholii
Eucalyptus sideroxylon
Euonymus japonica
Euonymus fortunei
Euonymus alata
Chamaecyparis lawsoniana
Fatsyhedera lizei
Abies lasiocarpa
Abies balsamea
Abies frazeri
Abies grandis
Abies veitchii
Abies concolor
Pyracantha fortuneana
Pyracantha skoidzumi
Pyracantha coccinea
Forsythia intermedia
Gardenia jasminoides
Gazania rigens leucolaena
Pelargonium hortorum
Geum quellyon
Ginkgo biloba
Gladiolus hortulanus
Koeleruteria paniculata

heavenly bamboo (Nandina)	<i>Nandina domestica</i>
hibiscus, Chinese	<i>Hibiscus rosa-sinensis</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)	
impatiens (busy lizzie)	<i>Impatiens wallerana</i>
iris, bearded	<i>Iris</i> spp.
ivy, Algerian	<i>Hedera canariensis</i>
ivy, English	<i>Hedera helix</i>
jerseytea, redroot	<i>Ceanothus americanus</i>
juniper	<i>Juniperus</i> spp.
kumquat	<i>Fortunella</i> spp.
laurel, mountain	<i>Kalmia latifolia</i>
laurelcherry, Carolina	<i>Prunus caroliniana</i>
laurelcherry, English	<i>Prunus laurocerasus</i>
leucothoe, coast	<i>Leucothoe axillaris</i>
leucothoe, drooping	<i>Leucothoe fontanesiana</i>
lilac, common	<i>Syringa vulgaris</i>
lily, plantain	<i>Hosta</i> spp.
lilyturf, bigblue	<i>Liriope muscari</i>
lily-of-the-Nile	<i>Agapanthus africanus</i>
linden, little leaf	<i>Tilia cordata</i>
magnolia, southern	<i>Magnolia grandiflora</i>
manzanita, Stanford	<i>Arctostaphylos stanfordiana</i>
maple	<i>Acer</i> spp.
marigold	<i>Tagetes</i> spp.
mockorange	<i>Philadelphus</i> spp.
moss, rose	<i>Portulaca grandiflora</i>
myoporum, prostrate	<i>Myoporum parvifolium</i>
myrtle, true	<i>Myrtus communis</i>
oak	<i>Quercus</i> spp.
oleander	<i>Nerium oleander</i>
orange, ornamental	<i>Citrus</i> spp.
Oregon grape	<i>Mahonia aquifolium</i>
osmanthus, holly-leaf	<i>Osmanthus heterophyllus</i>
Palo Verde, blue	<i>Cercidium floridum</i>
pansy	<i>Viola wiltrichiana</i>
pear	<i>Pyrus communis</i>
pecan, ornamental	<i>Carya</i> spp.
periwinkle, bigleaf	<i>Vinca major</i>
periwinkle, dwarf	<i>Vinca minor</i>
petunia	<i>Petunia</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>
protea	<i>Protea nerifolia</i>
ranunculus, Persian	<i>Ranunculus asiaticus</i>

redbud	<i>Cercis canadensis</i>
redcedar, eastern	<i>Juniperus virginiana</i>
redcedar, western	<i>Thuja plicata</i>
redwood, coast	<i>Sequoia sempervirens</i>
rhapsiolepis (India hawthorn)	<i>Rhapsiolepis indica</i>
rhododendron	<i>Rhododendron</i> spp.
rose	<i>Rosa</i> spp.
rose-of-Sharon (Shrubalthea)	<i>Hibiscus syriacus</i>
Russian olive	<i>Elaeagnus angustifolia</i>
sage	<i>Salvia</i> spp.
shrimp plant	<i>Justicia brandegeana</i>
snapdragon	<i>Antirrhinum majus</i>
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>
viburnum, Sandankwa	<i>Viburnum 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>Zinnia elegans</i>

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

<u>Common Name</u>	<u>Scientific Name</u>
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
 cryptomeria, Japanese
 cypress, Arizona
 cypress, Italian
 daylily
 dogwood, kousa
 eastercactus
 escallonia
 euonymus, evergreen
 euonymus, stringybark
 fatshedera
 firethorn
 firethorn, formosa
 firethorn, scarlet
 gardenia
 ginkgo
 holly, Chinese
 holly, Japanese
 jerseytea, redroot
 juniper
 kumquat
 lilac, common
 lilyturf, bigblue
 lily-of-the-Nile
 linden, little leaf
 mockorange
 myrtle, true
 oak
 oleander
 orange, ornamental
 pecan, ornamental
 photinia
 pine
 Pittosporum
 privet, amur
 privet, glossy
 privet, golden
 privet, Japanese
 redbud
 raphiolepis (India hawthorn)
 rhododendron
 russian olive
 shrimp plant
 spruce, Colorado
 sumac, African
 sweetgum, American
 trumpet vine, violet
 viburnum, Laurustinus
 wintercreeper
 yaupon
 yucca, soaptree

Lagerstroemia indica
Cryptomeria japonica
Cupressus arizonica (glabra)
Cupressus sempervirens
Hemerocallis spp.
Cornus kousa
Rhipsalidopsis gaertneri
Escallonia exoniensis
Euonymus japonica
Euonymus fortunei
Fatshedera lizei
Pyracantha, fortuneana
Pyracantha skoidzumi
Pyracantha coccinea
Gardenia jasminoides
Ginkgo biloba
Ilex cornuta
Ilex crenata
Ceanothus americanus
Juniperus spp.
Fortunella spp.
Syringa vulgaris
Lilium muscari
Agapanthus africanus
Tilia cordata
Philadelphus spp.
Myrtus communis
Quercus spp.
Nerium oleander
Citrus spp.
Carya spp.
Photinia fraseri
Pinus spp.
Pittosporum spp.
Ligustrum amurense
Ligustrum lucidum
Ligustrum vicaryi
Ligustrum japonicum
Cercis canadensis
Raphiolepis 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	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	gorseberry
blueberry	dewberry	loganberry
boysenberry	elderberry	raspberry

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

Tank Mix Combinations

Tank mix combinations of Surflan 75W plus Roundup, 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 Roundup: Tank mix combinations of Surflan 75W plus Roundup are recommended to control existing undesirable vegetation. Applied as directed, Surflan 75W plus Roundup will provide postemergence control of susceptible weed species listed on the Roundup label and residual preemergence control of susceptible weed species listed on the Surflan 75W label. Refer to the Roundup label for specific use directions, precautions and limitations before use.

Precautions:

Do not apply sprays containing Roundup over the top of ornamental plants. Extreme care must be exercised to prevent contact of sprays containing Roundup with foliage and stems of turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or death may result.

Note: If spraying with Roundup 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 gladiolus corms prior to emergence or less than one inch in diameter.

Broadcast Application Rates

Time of Application	Soil Texture	Surflan 75W
Fall	Coarse	1 packet per 1.3 acre (1.0 pound per acre)
Fall	Medium and Fine	1 packet per 0.67 acre (2.0 lb per acre)
Feb. - March	All Soil Textures	1 packet per 1.3 acre (1.0 lb per acre)

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 shadehouse-type structures. Do not apply within three weeks prior to enclosure in greenhouse-type structures.

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
Short term (2 to 4 months)	2 packets per acre (2.6 pounds per acre)
Long term (4 to 8 months)	4 packets per acre (5.2 pounds per acre)

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 Roundup: Apply tank mix combinations of Surflan 75W plus Roundup only as directed sprays in Christmas tree plantings. When applied according to use directions, Surflan 75W plus Roundup will provide postemergence control of susceptible weed species listed on the Roundup label and residual preemergence control of susceptible weed species listed on the Surflan 75W label. Refer to the Roundup label for specific use directions, precautions and limitations before use.

Precautions:

Do not apply sprays containing Roundup over the top of Christmas tree plantings. Extreme care must be exercised to avoid contact of spray containing Roundup 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 Surlan 75W plus Roundup and many other labeled herbicides may be used to control undesirable vegetation in noncropland areas. When applied according to use directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions and limitations before use.

Length of Control	Surlan 75W
Short term (2 to 4 months)	2 packets per acre (2.6 pounds per acre)
Long term (4 to 8 months)	4 packets per acre (5.2 pounds per acre)
Long term (8 to 12 months)	6 packets per acre (8.0 pounds per acre)

Industrial Sites -- Tank Mix Combinations

Tank mix combinations of Surlan 75W plus Roundup, 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

Surlan 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. Surlan 75W may be tank mixed with Gallery herbicide (California registration pending) 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 Surlan 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 Surlan 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.

Surlan 75W will not control emerged weeds.

Any cultural practices that disturb the soil, such as aeration or verticutting, should be done prior to application of Surlan 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 80 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:

<u>Common Name</u>	<u>Scientific Name</u>
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:

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

Annual Broadleaf Weeds Controlled by Surflan 75W

Summer Annuals:

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

Winter Annuals:

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

Broadleaf Weeds Suppressed by Surflan 75W

<u>Common Name</u>	<u>Scientific Name</u>
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.

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)

Broadcast Application Rates

Surflan 75W	
Pounds per Acre	Packets per Acre
2	1.5 packets per acre (1 packet per 0.67 acre)
2.6	2 packets 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.

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.