ELANCO

ID 5950

# Suffan, Francisco Suffan, Fran

TM

Net Wt. 5 Pounds

A selective preemergence surface-applied herbicide for use in established ornamentals for the control of annual grasses and most broadleaf weeds in:

- Field Grown Roses
- Nursery Stock
- Omamental Trees
- Ornamental Woody Shrubs
- Drainage Areas Under Greenhouse Benches
- Noncropland Areas
- Christmas Tree Plantations
- Forest Nursery Plantations
- Container Grown
   Ornamental Plants
- Ground Cover
- Ornamental Plants

Active Ingredient oryzelin\* (3.5-dinktro-N\*/N\*-dipropytsulfanklamide) Inert kroredients

75% 25%

**76**)

Contains 3% pounds active ingredient per 5 pound bag "Buritan"—the registered trademark for Elanco Products oryzalin.

Keep Out of Reach of Children.

CAUTION

See back panel for additional precautionary statements

EPA Reg No 1471-102

FN 0490

ACCEPTED

FEB - 3 1986

University of the Insecticite.
Firm allowed Rodenticide Act,
allowed field for the pesticide
test total under
EFA Reg. No. 14 7/-/12

See Literature on Bottom of Bag for Complete Directions for Use

119\*\*\*\*/WP\*\*75/LABELS/US/F490/45

BG-3305 AMB

Storage: Store in original container only. In case of leak or spill, contain material and dispose as waste.

### Read All Directions Carefully Directions for Use Before Applying

See Literature on Bottom of Bag for Complete Directions for Use It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

# **Precautionary Statements**

### Hazards to Humans and Domestic Animals CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spraymist and contact with skin or eyes. In case of contact, immediately flush eyes or -skin with plenty of water. Get medical attention if irritation develops. Surfian 75W--may cauce skin consitization reactions in certain individuals. Use protective--clothing such as soveralls, a long sleeved shirt and impermeable gloves whenhandling this product. -

### Environmental Hazards

Do not apply directly to water or wetland. Do not contaminate water by cleaning of equipment or disposai of wastes. Cover or incorporate spills.

### STORAGE AND DISPOSAL

Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

Insert 1

Indianapolis, IN 46285, U.S.A.

Elanco Products Company • A Division of Ell Lilly and Company

BEST AVAILABLE COPY

See Literature on Bottom of Bag for Complete Directions for Use,

sarmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist and contact with skin or eyes.

### STATEMENTS OF PRACTICAL TREATMENT

f swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce voniting by touching back of broat with finger or, if aveilable, by administering 1 or 2 teaspoons of syrup of spacec. Do not induce woniting or give inything by wouth to as unconscious person.

m skin: Wash with plenty of sosp and water. Get medical attention if irritation persists.

f on eyes: Flush eyes with plenty of vater. Call a physician if irritation persists.

f inhalod: Remove individual to fresh air. If breathing difficulty occurs, provide cardiopulmonary resuscitation assistance nd get medical attention.

119\*\*\*\*/WP\*\*75/LAPEES,US/

### INSERT 1 - DISCLAIMER OF WARRANTIES

The manufacturer makes no warran ies concerning this product or its use, which extend beyond the description on the label. All other warranties, express or implied, including but not limited to, any implied warranties of merchantability and fitness for a particular purpose, are disclaimed. All statements concerning this product apply only when used as directed.

### LIMITATION OF DAMAGES

Elanco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the return of the amount of the purchase price of the SURFLAN 75W and under no circumstances shall Elanco 'e liable for special, indirect or consequential damages.

ELANCO ID 5950 SURFLANO 75W

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

Field Grown Roses
Nursery Stock
Ornamental Trees
Ornamental Woody Shrubs
Drainage Areas Under
Greenhouse Benches
Woncropland Areas

Christmas Tree Plantations
Forest Nursery Plantations
Container Grown Ornamental
Plants
Ground Cover
Ornamental Plants
(Including around Highway and
Industrial Sites)

Active Ingredient: oryzalin* (3,5-dinitro-N <sup>4</sup> ,N <sup>4</sup> -dipropylsulfanilamide)
Inert Ingredients
Contains 3 3/4 pounds active ingredient per 5-pound bag. EPA Reg. No. 1471-102 FPA Est. FN 0490

\*SURFLAN - the registered trademack for Elanco Products oryzalin.

Elanco Products Company
A Division of Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

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### **GENERAL USE PRECAUTIONS**

Apply only to established plantings. Rooted liners should be established in containers two weeks prior to treatment or crop injury may occur.

On container grown ornamentals where weed seed germination continues for extended periods of time, subsequent applications of SURFLAN should not be made any sooner than 90 days or crop injury may occur.

Do not apply SURFLAN in ornamental plantings where the likelihood of runoff onto lawn areas containing dichondra or cool-season turfgrass species exists as severe injury or death may occur. Poor weed control may result if directions are not followed. Over-application may result in crop injury or excessive soil residue.

Plant only ornamental species listed on this label into soil treated the previous season with SURFLAN or injury may occur.

## GRASSES CONTROLLED BY SURFLAN ALONE

Common Name	Scientific Name
Barley, little Barnyardgrass (watergrass) Bluegrass, annual Brachiaria (Signalgrass) Crabgrasses (Large crabgrass)	Hordeum pusillum Echinochloa crus-galli Poa annua Brachiaria spp. Digitaria spp.
(Smooth crabgrass) Crowfootgrass Cupgrass, southwestern Foxtails	Dactyloctenium aegyptium Eriochloa gracilis Setaria spp.
(Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Pigeongrass)	
(Robust foxtail) (Yellow foxtail) Goosegrass	Eleusine indica
(Silver crabgrass) Johnsongrass (Seedling only) Junglerice	Sorghum halepense
Lovegrass, Mexican Lovegrass, orcutt Oat, wild	Echinochloa colonum Eragrostis mexicana Eragrostis orcuttiana Avena fatua
Panicum, browntop Panicum, fall (Spreading panicgrass) Panicum, Texas	Panicum fasciculatum Panicum dichotomiflorum Panicum texanum
(Buffalograss) (Coloradograss) Ryegrass, Italian	Lolium multiflorum
Sandbur, field Sprangletop, red Witchgrass	Cenchrus incertus Leptochloa filiformis Panicum capillare

## BROADLEAF WEEDS CONTROLLED BY SURFLAN ALONE

Bittercress Cardamine spp. Mollugo verticillata Carpetweed Stellaria media Chickweed, common Amsinckia intermedia Fiddleneck, coast Erodium cicutarium Filaree, redstem Erodium moschatum Filaree, whitestem Senecio vulgaris Groundsel, common Lamium amplexicaule Henbit Polygonum aviculare Knotweed, prostrate Chenopodium album Lambsquarters Amaranthus spp. Pigweeds

(Carelessweed)

(Prostrate pigweed)

(Redroot)

(Rough pigweed)
(Spring pigweed)
(Tumble pigweed)

Puncturevine
Purslane, common
Pusley, Florida
(Florida purslane)
(Mexican clover)

(Pusley)

Rocket, London
Rockpurslane, desert
Shepherdspurse
Spurge, prostrate
Woodsorrel, yellow

Tribulus terrestris
Portulaca oleracea
Richardia scabra

Sisymbrium irio
Calandrinia ciliata
Capsella bursa-pastoris
Euphorbia humistrata

Oxalis stricta

Suppression 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, amount and timing of soil moisture:

black nightshade common ragweed ladysthumb morningglory smartweed teaweed (prickly sida) velvetleaf horseweed prickly lettuce common mallow black mustard wild mustard annual sowthistle climbing milkweed spotted spurge volunteer wheat

SURFLAN will not control established weeds.

### DIRECTIONS FOR USE

SURFLAN is a preemergence, surface applied herbicide for the control of most annual grasses and certain broadleaf weeds.

### SOIL PREPARATION

SURFLAN will not control established weeds. Therefore, areas to be treated should be free of established weeds. Weed residues, prunings or trash should be thoroughly mixed into the soil or removed prior to treatment. The soil should be in good tilth and free of clods at the time of application.

MIXING DIRECTIONS

### SURFLAN Alone in Water

Start with a clean spray tank. Fill sprayer one-third (1/3) to one-half (1/2) full with clean water. Start agitation. Add correct quantity of SURFLAN, continue agitation and finish filling the tank. Maintain agitation from mixing through application.

### SURFLAN Tank-Mix in Water

Vigorous, continuous agitation is required for all tank-mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. Avoid stirring or splashing air into the mixture during filling to prevent foaming. To do this, place the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing Order: Fill the tank three-fourths (3/4) full with clean water. Start the agitation. Add dry flowables or wettable powders (WP) and agitate until the products are completely dispersed in the water. Allow additional mixing and dispersion time when using dry flowable type products. Add liquids and agitate until completely dispersed in the water. Next add any solution (S) products, mix thoroughly. Add emulsifiable concentrate (EC) products last, agitate and finish filling the tank. Maintain agitation during filling and through application. If spraying and agitation must be stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to again suspend all of the material in the bottom of the tank before continuing the spray application. A sparger agitator is particularly useful for this purpose. Sometimes it is more difficult to suspend settled material than it is to suspend it originally.

Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (slurrying) and pouring the slurry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

If you see a buildup of material on the walls of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use.

### **APPLICATION**

Ground Application: Apply SURFLAN as a directed spray to the soil surface or as an overtop spray. Apply SURFLAN in sufficient water per acre to uniformly treat the area. Use only a properly calibrated, low-pressure herbicide sprayer that will apply the spray uniformly. Use herbicide tips and screens no finer than 50 mesh in nozzle 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 agitation from mixing through application. Avoid boom overlaps that will increase rates above those recommended.

Aerial Application: Use standard aerial herbicide boom sprayer. Aerial spray equipment should be calibrated to apply the proper amount of SURFLAN alone or in tank-mix combinations in two (2) to 10 gallons of spray mixture per acre. Nozzle screens and in-line strainers should be no finer than 50 mesh for tank-mix combinations. SURFLAN (alone or in tank-mix combinations) mixes readily with water for these 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 spray tank is empty. Avoid overlap of spray patterns. Do not apply when weather conditions favor drift from target area.

Chemigation: SURFLAN may be applied for weed control through center pivot and solid set sprinkler irrigation systems. Apply at rates recommended on this label. Prepare mixture using a minimum of one (1) part water to one (1) part product. Injecting a larger volume of a more dilute slurry per hour will assure more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension. Meter slurry into irrigation water during entire period. Apply SURFLAN in a minimum of one-half (1/2) to one (1) inch of irrigation water. The following precautions and recommendations must be followed to chemigate SURFLAN.

- Apply only through properly maintained irrigation systems having continuously moving laterals and providing uniform distribution of water. Where a system does not provide uniform water distribution such as at the extreme ends of the lateral, around supports, where treated discharge water is released from water-powered motors, or where extreme changes in elevation occur, unacceptable weed control or crop injury may occur.
- 2. Apply the product only through irrigation systems containing anti-siphon and check valves, to prevent water source contamination and overflow and siphoning of the slurry tank, and interlocking controls between the metering device and the water pump, to insure simultaneous shut-off.
- 3. Inject the product with a positive displacement pump into the main line ahead of a right angle turn, to insure adequate mixing.
- 4. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the pesticide from the zone of effectiveness.
- 5. Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product should be dismantled and drained. Use of low trajectory angle sprinklers or drop nozzles will decrease the likelihood of drift.
- 6. Greater occuracy in pesticide calibration and distribution will be achieved by injecting a larger volume of more dilute slurry per hour.
- 7. Constant agitation should be maintained in the slurry tank during the entire period of pesticide application.

8. Sample Calculation: Twenty (20) acres to be covered by irrigation system.

Recommended rate of 5.33 pounds per acre times 20 acres equals 106.6 pounds of product.

Prepare an injection mixture using a minimum of one (1) part water to one (1) part product. Prepare the mixture with product and water using the entire 106.6 pounds of product in a 100 gallon nurse tank. Finish filling with water. Apply the entire 100 gallons to 20 acres.

Irrigation system requires 4 hours to apply one (1) inch of water to 20 acres.

Injection rate equals 100 gallons divided by 4 hours equals 25 gallons per hour or 53.33 fluid ounces to be injected per minute.

Calibrate injection pump to deliver the herbicide mix into the irrigation system at the rate of 53.33 fluid ounces per minute.

9. Posting Requirements: Areas being treated with pesticides applied through irrigation systems must be posted at the usual entrances to the area, at bulletin boards where workers assemble and where the treated area lies adjacent to roads, residential areas, or any other areas such as schools, parks or other public facilities. Posted signs must be legible from 25 feet away and be printed in English and any other appropriate language such as Spanish. Signs must be posted prior to application, during application and for at least one week after application, but may remain in place indefinitely. The sign must indicate the following:

### NOTICE

Pesticides are applied in irrigation water in this field. Do not enter this field when the irrigation system is operating. Do not drink, bathe in or play in water or in furrows, puddles, ponds, canals or ditches associated with this irrigation system.

### ACTIVATION AND CULTIVATION

SURFLAN will remain stable on the soil surface up to 21 days. In the absence of timely rainfall, irrigation can be used to move SURFLAN into soil surface. A one-half inch rain or its equivalent in sprinkler irrigation is necessary to activate SURFLAN. If weeds begin to emerge due to lack of rainfall or irrigation, shallow cultivate (1 to 2 inches) to destroy existing weeds or remove by hand in containers and place SURFLAN in the weed germination zone. Shallow cultivation (1 to 2 inches) will not reduce herbicidal effectiveness. If SURFLAN is not activated by rainfall, irrigation or cultivation within 21 days of application, erratic weed control may result.

### ORNAMENTAL PLANTS

### SURFLAN is recommended for use on the following species:

### Common Name

### Scientific Name

Abelia, Glossy Apple, Common Arborvitae, Giant Arborvitae, Oriental\* Azalea

Barberry, Japanese\* Begonia, Perpetual Bird-of-Paradise Bottlebrush, Lemon\* Boxwood, Common\* Boxwood, Japanese\* Brushcherry\* Californialaurel Capejasmine Capemarigold Cherry, Mahaleb Cherry, Mazzard (Sweet) Chrysanthemum, Florists Cleyera, Japanese Coto: aster\* Cotoneaster, Bearberry\* Cotoneaster, Brightbead Cotoneaster, Cranberry\* Cotoneaster, Pyrenees Cotoneaster, Rock\* Cotoneaster, Rockspray Coyotebush, Dwarf Crapemyrtle, Common\* Cryptomeria, Japanese\* Cypress, Italian\* Daisy, Trailing African Douglasfir Eastercactus\* Escallonia\* Eucalyptus, Mealy Stringybark Eucalyptus, Mulga Ironbark Eucalyptus, Narrow-Leaved Euonymus\*

Euonymus, Evergreen\*
(Japanese Spindle Tree)
Euonymus, Winged
Falsecypress, Lawson
Fatshedera\*
Fir, Alpine
Fir, Balsam
Fir, Fraser
Fir, Grand

Fir. Veitch

Abelia grandiflora Malus pumila <u>Thuja plicata</u> Thuja orientalis Rhododendron spp. "Louisa' CV. "Stewartsonianum" Berberis thunbergi Begonia semperflorens Strelitzia reg<u>inae</u> Callistemon citrinus Buxus sempervirens Buxus microphylla Eugenia paniculata Umbellularia californica Gardenia jasminoides Cryptostemma calendula Prunus mahaleb Prunus avium Chrysanthemum morifolium Cleyera japonica Cotoneaster lactea Cotoneaster dammeri Cotoneaster glaucophylla Contoneaster apiculata Cotoneaster congesta Cotoneaster horizontalis Cotoneaster microphylla Baccharis pilularis Lagerstroemia indica Cryptomeria japonica Cupressus sempervirens Osteospermum fruticosum Pseudotsuga taxifolia <u>Schlumbergera</u> gaertneri Escallonia frades Eucalyptus cinerea Eucalyptus sideroxylor Eucalyptus nicholii Euonymus fortunei var.

Euonymus japonicus
Euonymus alatus
Chamaecyparis lawsoniana
Fatshedera lizei
Abies lasiocarpa
Abies balsamea
Abies fraseri
Abies grandis
bies veitchi

"Vegetus"

119\*\*\*\*/WP\* 75/LABF 8/US/F490/55

### Common Name

Fir, White (concolor) Firethorn\* Firethorn, Formosa\* Firethorn, Scarlet\* Forsythia, Border Gazania, Treasureflower Ginkgo\* Goldenrain Tree Hibiscus, Chinese Holly, Chinese⊁ Holly, Convexleaf Japanese\* Holly, English Holly, Howard Japanese\* Honeysuckle, Japanese Hopseedbush, Clammy Ice Plant Ice Plant, Largeleaf Ivy, Algerian Ivy, English

Juniper, Chinese\*
Juniper, Creeping\*
Juniper, Greek\*
Juniper, Japgarden\*
Juniper, Rockymountain\*
Juniper, Savin\*
Juniper, Shore\*
Juniper, Wilson Chinese\*

Jerseytea (redroot)\*

Juniper, Andorra

Laurelchercy, Carolina Laurelcherry, common Leucothoe, Coast Leucothoe, Drooping Lilac, Common≒ Lily-of-the-Nile\* Lilyturf, Bigblue\* Magnolia, Southern Manzanita, Stanford Maple, Bigtooth\* Marigold, French Mockorange\* Mountainlaurel Myoporum Myrtle\* Nandina\* Oak, Interior Live\* Oleander\* Oregongrape Osmanthus, Holly (Holly (live) Pansy, Garen

### Scientific Name

Abies concolor Pyracantha fortuneana Pyracantha koidzumi Pyracantha coccinea Forsythia intermedia <u>Gazania rigens</u> Ginkgo biloba <u>Koelreuteria paniculata</u> <u>Hibiscus rosa-sinensis</u> Ilex cornuta Ilex crenata var. "Convexa" <u>llex aquifolium</u> <u>llex crenata</u> var. "Howardi" Lonicera japonica Dodonaea viscosa Mesembryanthemum crystallinum Mesembryanthemum edule <u>Hedera canariensis</u> Hedera helix Ceanothus americanus Juniperus horizontalıs var. "Plaumosa" Juniperus chinensis Juniperus horizontalis <u>Juniperus excelsa</u> Juniperus procumbens Juniperus scopulorum <u>Juniperus sabina</u> Juniperus conferta Juniperus chinensis var. "Wilsonii" Prunus caroliniana Prunus laurocerasus Leucothoe axillaris <u>Leucothoe</u> catesbaei Syringa vulgaris Agapanthus africanus Liriope muscari Magnolia grandiflora Arctostaphylos stanfordiana Acer grandidentatum Tagetes patula Philadelphus spp. Kalmia latifolia Myoporum parvifolium Myrtus communis Nandina domestica Quercus wislizeni Nerium oleander Mahonia aquifolium Osmanthus ilicifolius Viola tricolor

### Common Name

Redwood, Giant

Rhododendron\*

Pear, Bartlett Pelargonium, Sprinter Red Periwinkle, Bigleaf Periwinkle, Common Petunia Petunia, Red Cascade Photinia\* Pieris, Japanese\* Pine, Austrian Pine, Bishop Pine, Canary\* Pine, Coulter Pine, Eastern White Pine, Japanese Black\* Pine, Monterey Pine, Mugho\* Pine, Scotch (var. Spanish and Nelson) Pine, Virginia Podocarpus, Shrubby Yew\* Privet, Amur\* Privet, Glossy\* Privet, Golden\* Privet, Japanese\* Raphiolepis, India Redcedar, Eastern

Rose Rose, Belinda<sup>★</sup> Rose, Cara-Mia Rose-of-Sharon (Shrubalthea) Shrimp Plant\* Snapweed, Sultan Spruce, Black Spruce, Colorado Blue\* Spruce, Engelmann Spruce, Norway Spruce, White Starjasmine, Chinese Stonecrop Sweet gum\* Trumpetvine, Violet\* Viburnum, Laurestinus\* Viburnum, Sandankwa Weigela, Oldfashioned Wintercreeper, Bigleaf\*

Wintercreeper, Purpleleaf

Scientific Name Pyrus communis Pelargonium hortorum Vinca major Vinca minor Petunia grandiflora Petunia hybrida Photinia frazerii Pieris japonica Pinus nigra Pinus muricata Pinus canariensis Pinus coulteri Pinus strobus Pinus thunbergii Pinus radiata Pinus mugo var. "Mughus" Pinus sylvestris Pinus <u>virginiana</u> Podocarpus macrophyllus Ligustrum amurense Ligustrum lucidum Ligustrum vicaryi Ligustrum japonicum Raphiolepis indica Juniperus virginiana Sequoía sempervirens Rhododendron spp. cv. "Chionoides" cv. "Hinodegiri" cv. "PJM" cv. "Rosebud" Rosa spp. Rosa spp. var. "Belinda" Rosa spp. var. "Cara-Mia" <u>Hibiscus syriacus</u> Beloperone guttata Impatiens sultanii <u>Picea mariana</u>

Picea pungens var. "Glauca" Picea engelmannii Picea abies Picea glauca Trachelospermum jasminoides Sedum brevifolium Liquidambar styraciflua Clytostoma callistegioides Viburnum tinus Viburnum suspensum Weigela florida Euonymus fortunei var. "Emerald Cushion" Euonymus fortunei var. "Coloratus"

### Common Name

### Scientific Name

Xylosma, Japanese Yaupon\* Yew, Japanese Yucca, Soaptree\* Zinnia, Common Xylosma japonica

<u>Ilex vomitoria</u>

<u>Taxus cuspidata</u>

<u>Yucca elata</u>

Zinnia elegans

\*May be treated with SURFLAN when container grown.

### Precaution

Ice Plant: When establishing unrooted Ice Plant on coarse soils in landscape plantings, use only the 2 2/3 pound rate of SURFLAN 75W or crop injury may occur. After the Ice Plant is well established, a second application may be made.

### FIELD GROWN FRUIT TREE NURSERY LINERS

SURFLAN is recommended for use on the following species:

Almond Apple Apricot Avocado Cherry Fig Filbert

Grape

Grapefruit
Kiwi
Lemon
Macadamia Nut
Nectarine
Olive
Orange
Peach

Pear Pecan Pistachio Plum

Pomegranate Prune

Walnut, English

Small Fruits:

Blackberry Blueberry Boysenberry Currant Dewberry Elderberry Gooseberry Loganberry Raspberry

### RECOMMENDATIONS-SURFLAN ALONE

SURFLAN is recommended as a broadcast or overtop spray in field grown roses, nursery stock, ornamental trees, ornamental woody shrubs, drainage under greenhouse tenches, noncropland areas, Christmas tree plantings, forest nursery plantations, container grown ornamental plants, ground covers and ornamental plants.

### **Broadcast Application Rates**

Length of Control	SURFLAN 75W	
Short Term Control (2-4 months)	2 2/3 pounds/acre (1 oz. per 1,000 sq. ft.)	
Long Term Control (6-8 months)	5 1/3 pounds/acre (2 oz. per 1,000 sq. ft.)	
(8-12 months**)	<pre>8 pounds/acre (3 oz. per 1,000 sq. ft.)</pre>	

<sup>\*\*</sup> Not recommended in ornamental plantings.

### RECOMMENDATIONS-TANK-MIX COMBINATIONS

### ORNAMENTAL PLANTINGS AND NONCROPLAND AREAS

Tank-mix combinations of SURFLAN plus Roundup®, Fusilade®, Goal® and Poast® are recommended to control undesirable vegetation in ornamental and noncropland areas. Applied as directed these SURFLAN tank-mixes will provide control of susceptible species listed on the respective labels. Read the product labels for directions, precautions and limitations prior to use.

### SURFLAN/Roundup® Tank-Mix

Tank-mix combinations of SURFLAN/Roundup will control existing undesirable vegetation. Applied as directed, SURFLAN/Roundup will provide control of susceptible species listed on the respective labels of the two herbicides.

### **Broadcast Application Rates**

### SURFLAN/Roundup

SURFLAN 75W* Ornamental Plantings		SURFLAN 75W* Noncropland Areas		Roundup		
Ounces Per 1000 sq. ft.	Pounds Per Acre	Ounces Per 1000 sq. ft.	Pounds Per sq. ft.	Existing Annual and Broadleaf Weeds	Ounces Per 1000 sq. ft.	Quarts Per Acre
1 - 2	2 2/3 - 5 1/3	1 - 3	2 2/3 - 8	Less than 6" Tall	3/4	1
				More Than 6" Tall	1 1/8	1 1/2
				Existing Perennial Weeds	1 1/2 - 3 3/4	2 - 3

<sup>\*</sup> For length of control desired see SURFLAN Broadcast Application Rate table on page 12.

### Precaution

Roundup is not recommended as an over-the-top broadcast spray in ornamentals. Extreme care must be exercised to avoid contact of spray containing Roundup with foliage of desirable turfgrasses, trees, shrubs, or other desirable vegetation since severe damage or destruction may result.

Note: If spraying areas adjacent to desirable plants with Roundup, use a shield made of cardboard, sheet metal or plyboard while spraying to help prevent spray from contacting foliage of desirable plants.

### CHRISTMAS TREE PLANTINGS

Tank-mix combinations of SURFLAN and Princep® 80W or Goal® are recommended as overtop sprays on field grown Christmas tree species. Applied as directed these SURFLAN tank-mixes will provide control of susceptible species listed on the respective labels. Read the product labels for directions, precautions and limitations prior to use.

### INDUSTRIAL SITES

Tank-mix combinations of SURFLAN plus Spike®, Casoron®, Dowpon® 74SP, Hyvar®X, Karmex® (diuron), Krovar® I & II, MSMA, Oust®, Paraquat CL, Princep® (simazine), Sencor®, and Telar®, are recommended as overtop sprays to existing vegetation in industrial areas, utility substations, highway guard rails, sign posts and delineators and other similar industrial sites.

Applied as directed these SURFLAN tank-mixes will provide control of susceptible species listed on the respective labels. Read the product labels for directions, precautions and limitations piror to use.

### Precautionary Statements

Hazards to Human or Domestic Animals

### Caution

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist and contact with skin or eyes.

### STATEMENTS OF PRACTICAL TREATMENT

I swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering 1 or 2 teaspoons of syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

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

If on eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, provide cardiopulmonary resuscitation assistance and get medical attention.

### Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water by cleaning or equipment or disposal of wastes. Cover or incorporate spills.

### Storage and Disposal

Pesticide Disposal: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

(Spike® - tebuthiuron, Elanco)
(Casoron® - dichlobenil, Philips-Duphar)
(Dowpon® - dalapon, Dow Chemical Company)
(Fusilade® - fluazifop-butyl, ICI Americas Inc.)
(Goal® - oxyfluorfen, Rohm and Haas Company)
(Hyvar® - bromacil, E.I. du Pont de Nemours and Company)
(Karmex® - diuron, E.I. du Pont de Nemours and Company)
(Krovar® - I & II - bromacil/diuron, E.I. du Pont De Nemours and Company)
(Oust® - sulfometuron methyl, E.I. du Pont de Nemours and Company)
(Poast® - sethoxydim, BASF Wyandotte Corporation)
(Princep® - simazine, Ciba-Geigy)
(Roundup® - glyphosate, Monsanto Company)
(Sencor® - metribuzin, Bayer GmbH)
(Telar® - chlorsulfuron, E.I. du Pont de Nemours and Company)

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