

PL25
62719-106
Pg. 1 of 36

ELANCO

ID 5050



Net Wt. 5 Pounds

A preemergence surface-applied herbicide for the control of most annual grasses and certain broadleaf weeds.

Active Ingredient
oryzalin* (3,5-dinitro-N,N'-dipropylsulfanilamide) 75%
Inert Ingredients 25%
Contains 3 1/2 pounds active ingredient per 5 pound bag
Surflan—the registered trademark for Elanco Products oryzalin

ACCEPTED
JUN 28 1985
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1471-96

transf. 62719-106

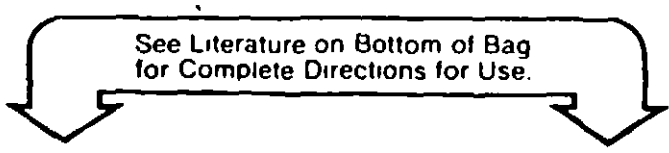
Keep Out of Reach of Children

CAUTION

See back panel for additional precautionary statements

EPA Reg. No 1471-96

EPA Est. 477-MD-1



119****/WP**75/LABELS/US/F490/1

MAY 2 1985

Directions for Use Read All Directions Carefully 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 dust or spray mist 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. Use eye protection and protective clothing such as coveralls, a long sleeved shirt and impermeable gloves when handling this product. The use of this product may be hazardous to your health. This product contains oryzalin, which has been determined to cause tumors in laboratory animals.

Environmental Hazards

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

STORAGE AND DISPOSAL

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

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.

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FN 0490

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Indianapolis, IN 46285, U.S.A.



ELANCO

ID 5050

Herbicide
Sunflan

75 W

A preemergence surface-applied herbicide for the control of most annual grasses and certain broadleaf weeds.

Active Ingredient
oryzalin* (3,5-dinitro-N,N'-dipropylsulfanilamide) 75%
Inert Ingredients 25%
Contains 3 1/2 pounds active ingredient per 5 pound bag
*Sunflan®—the registered trademark for Elanco Products oryzalin

EPA Reg No. 1471-96

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Indianapolis, IN 46285, U.S.A.

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Literature Issued August 1, 1984
XPRM: 5338

119****/WP**75/LABELS/US/F490/3

No-Till Soybean - Surflan for
Fall or Early Spring Application

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Precautionary Statements

Hazards to Humans and Domestic Animals
Keep Out of Reach of Children.

CAUTION

dust or Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist 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. ~~Surflan 75W may cause skin sensitization reactions in certain individuals. Use protective clothing such as coveralls, a long sleeved shirt and impermeable gloves when handling this product.~~

Environmental Hazards

Do not apply directly to water or wetland. Do not contaminate water by cleaning of 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.

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

Surflan 75W should not be impregnated on any dry bulk fertilizer.

Do not impregnate nitrate containing fertilizer blends with Surflan A.S. or 75W; the combination may result in explosive mixtures.

Precaution

Do not feed forage from treated fields to livestock. Poor weed control or crop injury may result if directions are not followed. Over application may result in crop injury or soil residue. Do not plant any root crop for 12 months following a Surflan application.

eye protection and

Weeds and Grasses Controlled

Weeds Controlled in Field Crops by Surflan

Surflan will not control established weeds.

Grasses

| | |
|--|-------------------------------------|
| Barnyardgrass (Watergrass) | (<i>Echinochloa</i> sp.) |
| Brachiaria (Signalgrass) | (<i>Brachiaria</i> sp.) |
| Browntop panicum* | (<i>Panicum fasciculatum</i>) |
| Crabgrasses (Large crabgrass) (Smooth crabgrass) | (<i>Digitaria</i> spp.) |
| Crowfootgrass | (<i>Dactyloctenium aegyptium</i>) |
| Fall panicum (Spreading panicgrass) | (<i>Panicum dichotomiflorum</i>) |

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| | |
|------------------------|---------------------------------|
| Foxtails | (<i>Setaria</i> spp.) |
| (Bottlegrass) | |
| (Bristlegrass) | |
| (Giant foxtail) | |
| (Green foxtail) | |
| (Pigeongrass) | |
| (Robust foxtail) | |
| (Yellow foxtail) | |
| Goosegrass | (<i>Eleusine indica</i>) |
| (Silver crabgrass) | |
| (Wiregrass) | |
| (Yardgrass) | |
| Johnsongrass | (<i>Sorghum halepense</i>) |
| (Seedling only) | |
| Texas panicum* | (<i>Panicum texanum</i>) |
| (Buffalograss) | |
| (Coloradograss) | |
| Broadleaf Weeds | |
| Carpetweed | (<i>Mollugo verticillata</i>) |
| Florida pusley | (<i>Richardia scabra</i>) |
| (Florida fyturane) | |
| (Mexican clover) | |
| (Pusley) | |
| Lambsquarters | (<i>Chenopodium album</i>) |
| Pigweeds | (<i>Amaranthus</i> spp.) |
| (Carelessweed) | |
| (Prostrate pigweed) | |
| (Redroot pigweed) | |
| (Rough pigweed) | |
| (Spiny pigweed) | |

| | |
|---------------------------|-------------------------------|
| Purslane, common | (<i>Portulaca oleracea</i>) |
| Spurge, prostrate* | (<i>Euphorbia supina</i>) |

Surflan also provides partial control or suppression of:

| | |
|------------------------|-------------------|
| Ladysthumb | Smartweed, annual |
| Morningglory, annual | Spurge, spotted |
| Nightshade, black | Velvetleaf |
| Prickly sida (teaweed) | Volunteer wheat |
| Ragweed, common | |

*(See page 25 for special instructions for Texas only)

Weeds Controlled in Fruit, Nut Crops and Vineyards by Surflan

Surflan applied in Fruit, Nut Crops and Vineyards controls the following weeds:

Grasses

| | |
|--------------------------------|-------------------------------------|
| Barley, little | (<i>Hordeum pusillum</i>) |
| Barnyardgrass | (<i>Echinochloa</i> sp.) |
| (Watergrass) | |
| Bluegrass, annual (Poa) | (<i>Poa annua</i>) |
| Brachiaria | (<i>Brachiaria</i> sp.) |
| (Signalgrass) | |
| Browntop panicum | (<i>Panicum fasciculatum</i>) |
| Crabgrasses | (<i>Digitaria</i> spp.) |
| (Large crabgrass) | |
| (Smooth crabgrass) | |
| Crowfootgrass | (<i>Dactyloctenium aegyptium</i>) |
| Cupgrass | (<i>Eriochloa gracilis</i>) |
| (Wyny brome) | (<i>Bromus tectorum</i>) |

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| | |
|--|--|
| Fall panicum (Spreading panicgrass) | (<i>Panicum dichotomiflorum</i>) |
| Foxtails (Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Pigeongrass) (Robust foxtail) (Yellow foxtail) | (<i>Setaria</i> spp.) |
| Goosegrass: (Silver crabgrass) (Wiregrass, Yardgrass) | (<i>Eleusine indica</i>) |
| Johnsongrass (Seeding 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>) |
| Ryegrass, annual (Italian) | (<i>Lolium multiflorum</i>) |
| Texas panicum (Buffalograss) (Coloradograss) | (<i>Panicum texanum</i>) |
| Witchgrass | (<i>Panicum capillare</i>) |
| Broadleaf Weeds | |
| Carpetweed | (<i>Mollugo verticillata</i>) |
| Chickweed | (<i>Stellaria media</i>) |
| Cudweed | (<i>Gnaphalium chilense</i>) |

[Guineagrass (*Panicum maximum*)

| | |
|--|---|
| Fiddleneck, coast | (<i>Amsinckia intermedia</i>) |
| Florida pusley (Florida purslane) (Mexican clover) (Pusley) | (<i>Richardia scabra</i>) |
| Henbit | (<i>Lamium amplexicaule</i>) |
| Knotweed, prostrate | (<i>Polygonum aviculare</i>) |
| Lambsquarters | (<i>Chenopodium album</i>) |
| Pigweeds (Carolessweed) (Prostrate pigweed) (Redroot pigweed) (Rough pigweed) (Smooth pigweed) (Spiny pigweed) (Tumble pigweed) | (<i>Amaranthus</i> spp.) |
| Puncturevine | (<i>Tribulus terrestris</i>) |
| Purslane, common | (<i>Portulaca oleracea</i>) |
| Rockpurselane, redmaids | (<i>Calandrinia caulescens</i>) |
| Sandbur, field | (<i>Cenchrus incertus</i>) |
| Shephordspurse | (<i>Capsella bursa-pastoris</i>) |
| Sprangletop, red | (<i>Leptochloa liliformis</i>) |
| Surtlan provides partial control or suppression of: | |
| Filaree, red and white stem | Nightshade, black Prickly sida (teaweed) |
| Groundsol, common | Ragweed, common |
| Ladysthumb | Ragweed, giant (horseweed) |
| Lettuce, prickly | Rocket, London |
| Mallow, common | Smartweed, annual |
| Milkweed, climbing | |

Morningglory, annual Sowthistle, annual
 Mustard, black Spurge, prostrate
 Mustard, wild Velvetleaf

Directions for Use

Surflan is a preemergence, surface applied herbicide for the control of most annual grasses and certain broadleaf weeds. General rule: The more coarse the soil or the lower the organic matter, the lower the rate.

Soil Texture Guide

Refer to the following guide to determine your soil texture.

Soil Texture

| | |
|----------------------|---|
| Coarse (light) soils | Sand Loamy sand Sandy loam |
| Medium soils | Loam Silt loam Silty clay loam* Silt Sandy clay loam* |
| Fine (heavy) soils | Clay Clay loam Silty clay loam* Silty clay Sandy clay Sandy clay loam* |

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or heavy textured soils. If silty clay loam or sandy clay loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If predominantly clay, they are usually classified as fine textured soils.

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Soil Classification

Mixing Directions

Surflan Alone In Water

Start with a clean spray tank. Fill sprayer one-third ($\frac{1}{3}$) to one-half ($\frac{1}{2}$) full with clean water. Start agitation. Add correct quantity of Surflan, continue agitation and finish filling the tank.

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 ($\frac{3}{4}$) 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 Surflan 75W and other wettable powders (WP) and agitate until completely dispersed. Next add flowables (F), liquids (L), or aqueous suspensions (AS), and continue mixing. Add solution (S) products next and add emulsifiable concentrate (EC) formulations 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.

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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.

Soil Preparation

Destroy existing weeds before or during a Surflan application. The soil surface should be level enough to allow a sprayer to be operated efficiently and at speeds appropriate for uniform application.

Application

Ground Application: Apply in 20 to 40 gallons of water per acre (broadcast basis), using any 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,

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the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Agitate thoroughly before and during application. Avoid boom overlaps that will increase rates above those recommended.

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 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 75W (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.

Activation and Cultivation

A single, one-half (1/2) inch rain or its equivalent in center pivot or sprinkler irrigation is necessary to activate Surflan when used alone or in a tank mix combination. If weeds begin to emerge, shallow cultivate (one to two inches) to destroy existing weeds and place Surflan in zone of weed seed germination. If heavy rains pack the soil surface, rotary hoe to break

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the crust to aid crop emergence. Crops treated with Surlan can be shallowly cultivated without loss of activity.

Crop Recommendations

Field Crops

General Directions

These recommendations are given as the broadcast (overall) rates of Surlan per acre. For band application, use proportionately less. Surlan is not recommended for use on soils containing more than five percent (5%) organic matter. Only one (1) application of Surlan per season should be made.

Soybean—Surlan Alone

Apply Surlan to the soil surface from four (4) weeks prior to planting up through two (2) days after planting at a broadcast rate per acre of one (1) pound on coarse soils; one and one-third (1 1/3) pounds on medium soils and two (2) pounds on fine soils.

Soybean—Tank Mix Recommendations

Soybean—Surlan/Sencor[®] (metribuzin) or Surlan/Lexone[®] (metribuzin) Tank Mix

The Surlan/Sencor or Surlan/Lexone tank mix effectively controls all of the annual grasses and broadleaf weeds listed for Surlan plus many additional weeds including:

| | |
|-----------------|-------------------|
| Browntop millet | Redweed |
| Hemp sesbania | Sicklepod |
| Jimsonweed | Smartweed, annual |

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Prickly sida (teaweed) Velvetleaf
Ragweed, common

Surlan/Sencor and Surlan/Lexone also provide partial control or suppression of:

Cocklebur Ragweed, giant
Morningglory (horsweed)

The Surlan/Sencor or Surlan/Lexone tank mix may be applied from two (2) weeks prior to planting up through two (2) days after planting, but before crop emergence with any low pressure herbicide sprayer. Do not spray over top of emerged soybeans.

Broadcast Rates Per Acre

Surface Applied Before or After Planting

| Soil Texture | Surlan 75W (pounds) | Lexone 50 WP/4L or Sencor 50% WP/4L | Lexone Dry Flowable or Sencor Dry Flowable | OR |
|--------------|---------------------|-------------------------------------|--|----|
| | | (pounds or pints) | (pounds) | |
| Coarse | 2/3-1 | 1/2 | 1/3 | |
| Medium | 1-1 1/3 | 3/4 | 1/2 | |
| Fine | 1 1/2-1 2/3 | 1 | 2/3 | |

Do not use the Surlan/Sencor or Surlan/Lexone tank mix on soils containing more than five percent (5%) organic matter in a preplant surface application or postplant surface application.

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| | | |
|------------|--------------|---------------|
| Cocklebur | Mustard | Sprangletop |
| Cupgrass | Prickly sida | Stinkgrass |
| Florida | (teaweed) | Velvetleaf |
| beggarweed | Ragweed, | Windmillgrass |
| Galinsoga | common | |

Follow Surlan procedures for soil preparation. Surlan/Dyanap or Surlan/Klean-Krop may be applied within two (2) days after planting but before crop emergence using any properly calibrated low pressure herbicide sprayer. Do not spray over top of emerged soybeans.

Broadcast Rates Per Acre

| Soil Texture | Surlan 75W (pounds) | Dyanap (2+1)S or Klean-Krop (quarts) |
|--------------|------------------------|--|
| Coarse | 2/3-1 | 6 |
| Medium | 1-1 1/3 | 6 |
| Fine | 1 1/3-1 2/3 | 6 |

Do not apply Surlan/Dyanap or Surlan/Klean-Krop to any soils with over five percent (5%) organic matter. Do not use on silt loam soils of extremely fine texture.

Special Precaution: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or storage.

Caution: Please read the Dyanap or Klean-Krop labels carefully for cautions, precautions and special precautions before applying these products.

Destroy empty containers. Do not reuse.

**Soybean—Surlan/Amben® (chloramben)
Tank Mix**

The Surlan/Amben tank mix effectively controls all of the annual grasses and broadleaf weeds listed for Surlan plus many additional weeds including:

| | |
|------------------------|-------------------------|
| Chickweed | Ragweed, common |
| Coleseed | Smartweed, Pennsylvania |
| Kochia | Spurge, annual |
| Mustard, wild | Stinkgrass |
| Nightshade, black | Thisle, Russian |
| Prickly sida (teaweed) | Velvetleaf (buttonweed) |

Surlan/Amben may be applied within two (2) days after planting, but before crop emergence, using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Agitate thoroughly before and during application. Follow normal Surlan procedures for soil preparation. Do not spray over top of emerged soybeans.

Broadcast Rates Per Acre

| Soil Texture | Surlan 75W (pounds) | Amben 2S (quarts) | Amben DS (pounds) |
|--------------|------------------------|----------------------|----------------------|
| Coarse | 2/3-1 | 4-6 | 2.4-3.6 |
| Medium | 1-1 1/3 | 4-6 | 2.4-3.6 |
| Fine | 1 1/3-1 2/3 | 4-6 | 2.4-3.6 |

The higher rates of Amben should be used on clay loams, clay or high organic (three to five percent) mineral soils. Do not use Surlan/Amben on soils containing more than five percent (5%) organic matter.

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Special Precaution: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or forage. Do not contaminate any body of water or apply to any area not specified on the label. Do not allow sprays to drift onto adjacent desirable plants.

Caution: Please read the Amiben label carefully for cautions, precautions and special precautions before applying this product.

— Destroy empty containers. Do not reuse.

Add Insert A
Add Insert B

**No-Till Soybean—Tank Mix
Recommendations**

No-Till Soybean—Control of Existing Vegetation with paraquat or Roundup®

Tank mix Surflan with Sencor, Lexone or Lorox to give season long control of labeled annual grasses and broadleaf weeds. Add paraquat or Roundup to these tank mixes to provide postemergence control of existing vegetation.

Paraquat Combinations:

Choose Surflan + Sencor/Lexone or Lorox depending on your specific weed problem. Tank mix two (2) pints of paraquat 2 CL per acre to control existing annual weeds. As the last ingredient, add eight (8) oz. of Ortho X-77 Spreader (non-ionic) per 100 gallons of spray solution. Maintain constant agitation.

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Caution: Check the paraquat label for additional directions, cautions and special precautions before applying this product.

Roundup Combinations:

Choose Surflan + Sencor/Lexone or Lorox depending on your specific weed problem. To control emerged annual weeds, tank mix one and one-half (1½) quarts of Roundup per acre. To control perennial weeds, tank mix two (2) to five (5) quarts of Roundup per acre depending on weeds to be controlled. Add Roundup as the last ingredient in the tank mix.

Caution: Check the Roundup label for additional directions, cautions, and special precautions before applying this product.

**No-Till Soybean—Surflan/Sencor® or
Surflan/Lexone® Tank Mix**

A tank mix combination of Surflan/Sencor or Surflan/Lexone is more effective in providing preemergence weed control in non-till soybeans than any one of these herbicides used alone.

Add paraquat or Roundup as directed above to control existing vegetation if necessary.

Woods Controlled by Surflan and Sencor or Lexone (See pages 5 and 14)

Apply the Surflan/Sencor or Surflan/Lexone tank mix at planting or within two (2) days after planting. Do not spray over top of emerged soybeans.

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SURFLAN 75W may be applied in the fall or early spring directly over undisturbed stubble from the previous crop. SURFLAN application can begin anytime following harvest after October 15. Spring applications may be made up to four (4) weeks prior to planting but not later than April 15.

The soil should not be tilled between the SURFLAN application and soybean planting.

Early applied SURFLAN effectively controls these annual grasses and broadleaf weeds:

Grasses

Barnyardgrass

(Watergrass)

Brachiaria

(Signalgrass)

Browntop panicum¹

Crabgrasses

(Large crabgrass)

(Smooth crabgrass)

Crowfootgrass

Fall panicum

(Spreading panicgrass)

Broadleaf Weeds

Carpetweed

Florida pusley

(Florida purslane)

(Mexican clover)

(Pusley)

Lambsquarters

Foxtails

(Bottlegrass)

(Bristlegrass)

(Giant foxtail)

(Green foxtail)

(Pigeongrass)

(Robust foxtail)

(Yellow foxtail)

Pigweeds

(Carelessweed)

(Prostrate pigweed)

(Redroot pigweed)

(Rough pigweed)

(Spiny pigweed)

Goosegrass

(Silver crabgrass)

(Wiregrass)

(Yardgrass)

Johnsongrass

(Seedling only)

Texas panicum¹

(Buffalograss)

(Coloradograss)

Purslane, common

Ragweed, common²

Spurge, prostrate¹

Velvetleaf²

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(Insert A continued)

SURFLAN also provides partial control or suppression of:

- | | |
|------------------------|-------------------|
| Ladysthumb | Smartweed, annual |
| Morningglory, annual | Spurge, spotted |
| Nightshade, black | Volunteer wheat |
| Prickly sida (teaweed) | |

- 1 Special instructions for Texas only (see complete label).
- 2 SURFLAN controls these weeds on medium and fine textured soils and provides partial control on coarse textured soils.

SURFLAN will not control established weeds.

Broadcast Rates Per Acre

| <u>Soil Texture</u> | <u>SURFLAN 75W</u> (pounds) |
|---------------------|--------------------------------|
| Coarse | 1 1/3 |
| Medium | 1 2/3 - 2 |
| Fine | 1 2/3 - 2 |

Use the lower rate under light crop residue conditions and under light weed pressure. Use sequential herbicide applications in the spring to control escaped broadleaved weeds and to provide control of those weeds not controlled by SURFLAN.

Precaution: Do not apply SURFLAN to frozen or snow covered ground.

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Insert B for Surflan 75W
No-Till Soybeans

Surflan Over-The-Top Spray for Weed Control
In Wheat or Barley Followed by No-Till Soybeans

Surflan may be applied for weed control in wheat or barley and soybeans. Apply Surflan as an over-the-top spray after the small grain is fully tillered and jointing has been initiated but prior to heading. When combining wheat or barley, the cutter bar should be adjusted to leave standing stubble at a height of at least eight (8) inches. Stubble reduces wind erosion and loss of soil moisture. During combining, cut straw should be chopped and spread evenly over the field as a mulch. Straw is an important part of the stubblecrop no-till program and should not be removed from the field. Soybeans can be planted into the small grain before harvest or into the stubble immediately following harvest.

Follow recommended mixing and application procedures for Surflan.

Broadcast Rates Per Acre

| <u>Soil Texture</u> | <u>SURFLAN 75W</u> (pounds) |
|---------------------|--------------------------------|
| Coarse | 1 1/3 |
| Medium | 1 1/3 - 2 |
| Fine | 1 2/3 - 2 |

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Precaution: Do not apply Surflan to soils containing more than five percent (5%) organic matter.

Tank Mixing Directions: Surflan may be tank mixed with most 2,4-D products. When tank mixing, add Surflan to the tank first and agitate until completely dispersed. Maintain agitation and add the 2,4-D product.

Certain ester formulations of 2,4-D require more vigorous agitation to keep the product well dispersed when mixed with Surflan. Surflan 75W is incompatible with some ester formulations of 2,4-D.

To assure the compatibility of Surflan with 2,4-D, add the products into small containers of water in the correct proportions. After thorough mixing, let stand for five (5) minutes and check for compatibility. If the combination remains mixed or can be remixed easily, the mixture is compatible. Maintain vigorous agitation during mixing and until the spray tank is empty. Follow 2,4-D application recommendations, precautions and limitations.

Precaution: Do not apply Surflan to winter wheat or barley prior to the fully tillered stage as crop injury may result. Do not graze or feed treated forage, hay or straw to livestock. Do not remove straw from field.

Caution: Read the 2,4-D labels carefully for cautions, precautions and special precautions before applying these products.

Excessive nitrogen application may result in crop lodging. Please contact your local Extension office for nitrogen recommendations.

Broadcast Rates Per Acre

| Soil Texture | Surlan 75W (pounds) | Sencor 50% WP/4L or Lexone 50 WP/4L | Lexone Dry Flowable or Sencor Dry Flowable |
|--------------|------------------------|---|--|
| | | (pounds or pints) | (pounds) |
| Coarse | 1 | 1/2 | 1/3 |
| Medium | 1-1 1/3 | 3/4 | 1/2 |
| Fine | 2 | 1 | 2/3 |

Do not use on sandy loam or loamy sand soils with less than one percent (1%) organic matter. Not recommended on any soil containing more than five percent (5%) organic matter.

Spray Equipment: Use any properly calibrated low pressure herbicide sprayer. Agitate thoroughly before and during application. Sprayers should be accurately calibrated before applying the tank mix combination. Avoid boom overlaps that will increase rates above those recommended. Check the sprayer daily to ensure proper calibration and uniform application. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases.

Activation: A single one-half (1/2) inch rain or its equivalent in overhead irrigation is needed to activate the herbicide combination.

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Special Precautions: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or forage. Do not contaminate any body of water or apply to any area not specified on the label. Do not allow sprays to drift onto adjacent desirable plants. Do not allow Surlan to come into direct contact with soybean seed or crop. Injury may result.

Caution: Read the Sencor or Lexone labels carefully for cautions, precautions and special precautions before applying these products.

No-Till Soybean—Surlan/Lorox® Tank Mix
A tank mix combination of Surlan/Lorox is more effective in providing preemergence weed control in no-till soybeans than either of these herbicides used alone.

Add paraquat or Roundup as directed above to control existing vegetation.

Weeds Controlled by Surlan and Lorox (See page 5 and 16)

Apply the Surlan/Lorox tank mix at planting or within two (2) days after planting. Do not spray over top of emerged soybeans.

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Broadcast Rates Per Acre

| Soil Texture | Surflan 75W (pounds) | Lorox 50 WP/L (pounds or pints) |
|--------------|-------------------------|------------------------------------|
| Coarse | 1 | $\frac{2}{3}$ -1 $\frac{1}{4}$ |
| Medium | 1-1 $\frac{1}{3}$ | 1-1 $\frac{2}{3}$ |
| Fine | 2 | 1 $\frac{1}{4}$ -2 |

Do not use on soils containing more than five percent (5%) organic matter.

Spray Equipment: Use any properly calibrated low pressure herbicide sprayer. Sprayer should be accurately calibrated before applying the tank mix combination. Agitate thoroughly before and during application. Avoid boom overlaps that will increase rates above those recommended. Check the sprayer daily to ensure proper calibration and uniform application. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases.

Activation: A single one-half ($\frac{1}{2}$) inch rain or its equivalent in overhead irrigation is needed to activate the herbicide combination.

Special Precautions: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or forage. Do not contaminate any body of water or apply to any area not specified on the label. Do not allow sprays to drift onto adjacent desirable plants. Do not allow Surflan to come into direct contact with soybean seed or crop injury may result.

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Cotton—Surflan Alone (In Texas only)

Apply Surflan to the soil surface at planting or within two (2) days after planting at a broadcast rate of one and one-third (1 $\frac{1}{3}$) pounds on medium soils and two (2) pounds on fine soils.

At the recommended rates for fine textured soils, Surflan will also control browntop panicum and prostrate spurge.

Precaution: Do not graze treated fields. If Surflan is not applied at or within two (2) days after planting, crop injury and poor weed control may result.

Pea (English or Green)—Surflan/Trellan Tank Mix

The Surflan/Trellan tank mix provides weed control and suppression of common root rot (*Aphanomyces euteiches*) in peas.

Mixing and Application: Apply the tank mix up to two (2) weeks prior to planting. Apply in 20 to 40 gallons of water per acre in any properly calibrated low pressure herbicide sprayer.

Broadcast Rates Per Acre

| Soil Texture | Surflan 75W | Trellan E.C. or M.T.F. ¹⁰ | Trellan Pro-5 ¹⁰ 4 |
|-------------------|---------------------|--------------------------------------|-------------------------------|
| All soil textures | $\frac{2}{3}$ pound | 1 pint | 0.8 pint |

Do not use the Surflan/Trellan tank mix on coarse soils with less than one and one-half percent (1 $\frac{1}{2}$ %) organic matter. Incorporate according to label directions for Trellan. See the Trellan label.

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Precautions: Please read the Trellan label for additional cautions and precautions. Do not feed forage from treated fields to livestock. Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not plant any root crop for 12 months following application.

Tobacco—Surflan Alone

Tobacco—Surflan at Layby

Air-Cured (Burley, Maryland, Dark) and Flue-Cured

Soil Preparation: The last cultivation should leave the middle of the rows weed free before application. Surflan should be applied as a directed spray following the last normal cultivation, usually four (4) to six (6) weeks after transplanting.

Application: Applications should be made in 20 to 40 gallons of water per acre using commercially available drop nozzles that will allow treatment to be made in a 16 to 24 inch band in the middle of the row between the crop rows. Surflan should be applied in a manner that will not allow the spray to contact the plant. In tobacco production, in areas where spray nozzles on the ends of the spray boom pass over the same middle of the row twice, use nozzles which apply one-half (½) the normal number of gallons per acre to prevent over application. Over application may result in injury to rotational crops.

Activation and Cultivation: A one-half (½) inch rain is necessary to activate Surflan. If adequate rainfall is not

received to activate Surflan, erratic weed control may occur. If weeds begin to emerge, a shallow cultivation (one to two inches) will destroy existing weeds and place Surflan in the zone of weed seed germination.

Broadcast Rates Per Acre

| Soil Texture | Surflan 75W (pounds) |
|--------------|-------------------------|
| Coarse | 2/3-1 |
| Medium | 1-1 1/2 |
| Fine | 1 1/4 |

Precaution: Applied according to directions and under normal growing conditions, Surflan will not harm the treated crop. Do not spray Surflan in the bud of the tobacco plant as crop injury may occur. Over application may result in soil residue. Do not plant any root crop for 12 months following a Surflan application as crop injury may occur. Failure to follow directions may result in erratic weed control, tobacco crop injury, or soil residues. Soil residues may result in rotational crop injury.

Fruit, Nut Crops and Vineyards (Nonbearing and Bearing)—Surflan Alone

Surflan applied as a preemergence herbicide controls many annual grasses and broadleaf weeds in several fruit, nut crops and vineyards. It is recommended on the following crops:

| | | |
|---------|---------------|-----------|
| Almond | Grapefruit | Pear |
| Apple | Kiwi | Pecan |
| Apricot | Lemon | Pistachio |
| Avocado | Macadamia Nut | Plum |

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| | | |
|---------------|------------|-----------------|
| Cherry | Nectarine | Pomegranate |
| Fig | Olive | Prune |
| Filbert | Orange | Walnut, English |
| Grape | Peach | |
| Small fruits: | | |
| Blackberry | Currants | Gooseberry |
| Blueberry | Dewberry | Loganberry |
| Boysenberry | Elderberry | Raspberry |

See page 7 for a listing of weeds controlled by Surlan alone.

General Directions: Existing vegetation should be destroyed either by tillage or by a tank mix with a contact or translocated herbicide. To ensure the compatibility of Surlan with the contact or translocated herbicide, pour the products into small containers of water in the correct proportions. After thorough mixing, let stand for five (5) minutes and check for compatibility. If the combination remains mixed or can be remixed easily, the mixture is compatible. Read the label for all directions, cautions and precautions.

Broadcast Rates Per Acre

| Soil Texture | Surlan 75W (pounds) |
|-------------------|----------------------------------|
| All Soil Textures | Short Term (2-4 months) 2 2/3 |
| | Long Term (6-8 months) 5 1/3 |
| | (8-12 months) 8 |

Surlan is not recommended for soils containing more than five percent (5%) organic matter.

Band Treatment: The amount of product needed for band treatment may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

Mixing and Application: Fill the spray tank three-fourths (3/4) full with clean water. Add the recommended amount of Surlan to water. Mix thoroughly. Use 20 to 40 gallons of water per acre (broadcast basis). Apply with a properly calibrated low pressure herbicide sprayer that will uniformly apply the spray. Check the sprayer daily for the proper calibration and uniform application. Provide good mixing of the spray suspension in the tank before and during application.

Activation: A single one-half (1/2) to one (1) inch rainfall or sprinkler irrigation to move Surlan into the weed seed germination zone is required to activate the herbicide. If weeds begin to emerge a shallow cultivation (one to two inches) will destroy existing weeds and place Surlan in the zone of weed seed germination. The higher water amount is generally required on fine textured/high organic matter soil.

Precaution: Poor weed control may result if directions are not followed. Over application may result in crop injury or excessive soil residue. Apply the spray directly to the orchard or vineyard floor.

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Surflan Tank Mix Reference Table

Refer to the following table to determine which herbicides may be applied to your crop. Choose the Surflan combination based on your orchard or vineyard weeds to be controlled. Refer to the tank mix section for specific recommendations and precautions. Always read the label before application. * = Approved Crop

| | Surflan | Goal | Karmex | Paraquat | Princep | Roundup |
|---------------|---------|------|--------|----------|---------|---------|
| Almond | . | . | . | . | . | . |
| Apple | . | . | . | . | . | . |
| Apricot | . | . | . | . | . | . |
| Avocado | . | . | . | . | . | . |
| Cherry | . | . | . | . | . | . |
| Fig | . | . | . | . | . | . |
| Filbert | . | . | . | . | . | . |
| Grape | . | . | . | . | . | . |
| Grapefruit | . | . | . | . | . | . |
| Kiwi | . | . | . | . | . | . |
| Lemon | . | . | . | . | . | . |
| Macadamia Nut | . | . | . | . | . | . |
| Nectarine | . | . | . | . | . | . |
| Olive | . | . | . | . | . | . |
| Orange | . | . | . | . | . | . |

| | Surflan | Goal | Karmex | Paraquat | Princep | Roundup |
|-----------------|---------|------|--------|----------|---------|---------|
| Peach | . | . | . | . | . | . |
| Pear | . | . | . | . | . | . |
| Pecan | . | . | . | . | . | . |
| Pistachio | . | . | . | . | . | . |
| Plum | . | . | . | . | . | . |
| Pomegranate | . | . | . | . | . | . |
| Prune | . | . | . | . | . | . |
| Small fruits | . | . | . | . | . | . |
| Blackberry | . | . | . | . | . | . |
| Blueberry | . | . | . | . | . | . |
| Boysenberry | . | . | . | . | . | . |
| Currants | . | . | . | . | . | . |
| Dewberry | . | . | . | . | . | . |
| Elderberry | . | . | . | . | . | . |
| Gooseberry | . | . | . | . | . | . |
| Loganberry | . | . | . | . | . | . |
| Raspberry | . | . | . | . | . | . |
| Walnut, English | . | . | . | . | . | . |

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Add Insert C

Surlan/Goal®/Paraquat Tank Mix

Surlan/Goal provides preemergence control of the following weeds in addition to those controlled by Surlan alone:

| | |
|--------------------|--------------------|
| Barclover | Mallow, little |
| Filaree, broadleaf | Sowthistle, annual |
| Lettuce, prickly | |

Paraquat may be tank mixed with Surlan/Goal to provide nonselective, postemergence control of existing emerged annual weeds and provide top kill of existing perennial weeds.

The tank mix is recommended for application to dormant crops including:

| | |
|-----------|-------|
| Almond | Peach |
| Apricot | Plum |
| Grape | Prune |
| Nectarine | |

General Directions: Best preemergence activity from Goal is obtained when the tank mix is applied to a relatively weed free established berm or soil surface.

Broadcast Rates Per Acre

| Crop | Surlan 75W (pounds) | Goal 2E (quarts) | Paraquat (quarts) |
|------------------|------------------------|---------------------|----------------------|
| All crops listed | 2 1/2-8 | 4 | 1* |

*Add 8 oz non-ionic surfactant per each 100 gallons spray volume.

Precautions:

- Dormancy determines the suitability and safety of using Goal 2E on tree fruit/grapes. Should bud swell occur prior to the dates listed, Goal 2E must not be used.
- Do not apply Goal 2E (either alone or in any combination recommended on this label) to tree or vine plantings before October 1 or after February 15. Do not apply Goal 2E (either alone or in any combination recommended on this label) to grapes in the Coachella Valley before October 1 or after December 31.
- Do not apply more than four (4) quarts (two pounds active) per broadcast acre of Goal 2E in one (1) season.
- Goal 2E should not be applied to grapes established less than three (3) years.
- Do not apply Goal 2E to grapes which are not staked or trellised.
- Do not feed or graze areas treated with Goal 2E to animals.
- Do not contaminate irrigation water or water used for domestic purposes with Goal 2E.
- Goal 2E or any of the combinations recommended on this label should be applied to only healthy growing trees and vines.
- Do not apply Goal 2E or any combination containing Goal 2E, that is recommended on this label, when weather conditions favor drift.

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controlled by Surflan alone:

| | |
|--------------------|--------------------|
| Burclover | Mallow, little |
| Filaree, broadleaf | Sowthistle, annual |
| Lettuce, prickly | |

Paraquat may be tank mixed with Surflan/Goal to provide nonselective, postemergence control of existing emerged annual weeds and provide top kill of existing perennial weeds.

The tank mix is recommended for application to dormant crops including:

| | |
|-----------|-------|
| Almond | Peach |
| Apricot | Plum |
| Grape | Prune |
| Nectarine | |

General Directions: Best preemergence activity from Goal is obtained when the tank mix is applied to a relatively weed free established berm or soil surface.

Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Goal 1.6E (quarts) | paraquat (quarts) |
|------------------|-------------------------|-----------------------|----------------------|
| All crops listed | 2 2/3 - 8 | 5 | 1 |

Precautions: Dormancy determines the suitability and safety of using Goal 1.6E on tree fruit/grapes. Should bud swell occur prior to the dates listed, Goal 1.6E must not be used.

†Do Not Apply Goal 1.6E (either alone or in any combination recommended on this label) to tree or vine plantings before October 1 or after February 15. Do not apply Goal 1.6E (either alone or in any combination recommended on this label) to grapes in the Coachella Valley before October 1 or after December 31.

†Do not apply more than five (5) quarts (two pounds active) per broadcast acre of Goal 1.6E in one (1) season. Goal 1.6E should not be applied to grapes established less than three (3) years.

†Do not apply Goal 1.6E to grapes which are not staked or trellised.

†Do not feed or graze areas treated with Goal 1.6E to animals.

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Insert C (page 2)
Surflan/Goal/Paraquat

†Do not contaminate irrigation water or water used for domestic purposes with Goal 1.6E.

†Goal 1.6E or any of the combinations recommended on this label should be applied to only healthy growing trees and vines.

†Do not apply Goal 1.6E or any combination containing goal 1.6E, that is recommended on this label, when weather conditions favor drift.

†Apply Goal 1.6E only to dormant fruit or nut trees or grape vines. Do not apply when foliage, buds or fruit/nuts are present.

†Direct Goal 1.6E spray toward the base of tree or vines. Avoid direct plant contact.

Mixing and Application: Apply Surflan/Goal in 20-40 gallons of water per acre. Fill the spray tank three-fourths (3/4) full. Agitate continuously. Add the recommended amount of Surflan to the spray tank. Add the recommended amount of Goal. Finish filling the tank with water to proper level. Do not allow the tank mix to remain in the tank without agitation.

Apply SURFLAN/Goal/paraquat in at least 50 gallons of water per acre. Use Ortho X-77® or Triton® AG-98 when tank mixing SURFLAN 75W/Goal/paraquat. Ortho X-77 and Triton AG-98 improve the compatibility of these herbicides when mixed together. Fill the spray tank one third to one half (1/3 to 1/2) full with clean water. Add either one (1) quart of X-77 or two (2) quarts of Triton AG-98 per 100 gallons of spray mixture, with the agitation running, add the recommended amount of SURFLAN and mix thoroughly. Continue filling the spray tank and add Goal, then paraquat. If a non-ionic spreader is being used, add it to the tank last.

Activation: A single one-half inch (1/2") to one inch (1") rain or sprinkler irrigation to move SURFLAN/Goal into the weed seed germination zone is required to activate the herbicide. If weeds begin to emerge, a shallow cultivation of one to two inches (1" to 2") will destroy existing weeds and place SURFLAN in the zone of weed seed germination. The higher amount of water is generally required on fine textured/high organic matter soil.

Caution: Read the SURFLAN, Goal and paraquat labels for additional limitations, directions, and cautions before applying these products.

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Apply Goal 2E only to dormant fruit or nut trees or grape vines. Do not apply when foliage, buds or fruit/nuts are present.

* Direct Goal 2E spray toward the base of tree or vines. Avoid direct plant contact.

Mixing and Application: Fill the spray tank three-fourths (¾) full. Agitate continuously. Add the recommended amount of Surlan to the spray tank. Add the recommended amount of Goal, then paraquat. Add eight (8) ounces of a non-ionic surfactant per each 100 gallons of spray volume. Finish filling the tank with water to proper level. Do not allow the tank mix to remain in the tank without agitation.

Activation: A single one-half (½) to one (1) inch rain or sprinkler irrigation to move Surlan/Goal into the weed seed germination zone is required to activate the herbicide. If weeds begin to emerge, a shallow cultivation (one to two inches) will destroy existing weeds and place Surlan in the zone of weed seed germination. The higher amount of water is generally required on fine textured/high organic matter soil.

Caution: Read the Goal and paraquat labels for directions, cautions and precautions before applying these products.

Surlan/Karmex[®] Tank Mix
 The Surlan/Karmex tank mix controls the following weeds in addition to those controlled by Surlan alone:

| | | |
|-----------------|----------|----------------|
| Ageratum | Kochia | Puncturevine |
| Buckwheat, wild | Kyllinga | Radish, wild |
| | Marigold | Nicegrass, red |

| | | |
|-----------------|----------------------|--------------------|
| Buttonweed | Milkweed, climbing | Ryegrass, annual |
| Clover, Mexican | Morningglory, annual | Smartweed |
| Daylily | Mustard, black | Sowthistle, annual |
| Dogfennel | Mustard, wild | Spanishneedles |
| Fescue, raitail | Orchardgrass | Speedwell, corn |
| Gromwell | Paintbrush, Flora's | Spurry, corn |
| Groundcherry | Pepperweed | Tansymustard |
| Hawksbeard | Pineappleweed | Tobacco, rabbit |
| Horseweed | Pokeweed | Velvetgrass |
| Knawel | | |

The tank mix is recommended on the following crops:

| | |
|-------------|-----------------|
| Apple | Orange |
| Caneberries | Peach |
| Grape | Pear |
| Grapefruit | Pecan |
| Lemon | Walnut, English |

Broadcast Rates Per Acre

| Crop | Surlan 75W (pounds) | Karmex 80W (pounds) |
|---|---------------------|---------------------|
| Apple | 2 ½ to 8 | 2 to 4 |
| Use Karmex only under trees established in the orchard for at least one (1) year; do not treat varieties grafted on full-dwarf root stocks. | | |
| Caneberries | 2 ½ to 8 | 2 to 4 |
| (Read the Karmex label for state and crop recommendations). Use Karmex only in fields established | | |

119****/WP**75/LABELS/US/F490/25



Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Karmex 80W (pounds) |
|--|-------------------------|------------------------|
| for at least (1) year. Do not apply Karmex to berries interplanted with fruit trees. Do not apply to plants whose roots are exposed as injury may result. | | |
| Grape | | |
| New York and Pennsylvania—Perennial Grasses: Use Karmex only in established vineyards (at least four years old) for spot control of perennial grasses such as orchardgrass, quackgrass and ryegrass. Apply Karmex in the spring as a band treatment to ridged soil (two to four inches high) under the trellis at the rate of eight (8) to 12 lbs. per acre. Band width should not exceed 30 inches. Do not apply Karmex more than once every four (4) years. Use Karmex only on heavy soils such as loams, silt loams and clay loams. Do not use Karmex in areas where grape roots are shallow or exposed because of high bedrock, poor drainage, or erosion as injury to grapes may result. | | |
| U.S. (Except New York and Pennsylvania)—Perennial Grasses: Apply Karmex only to established vineyards (at least three years old) as a band treatment to grape rows. Do not apply Karmex to vines with trunks less than one and one-half (1½) | | |

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Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Karmex 80W (pounds) |
|--|-------------------------|------------------------|
| inches in diameter as injury may result. On soils low in clay or organic matter (one to two percent), severe plant injury may result from Karmex application if heavy rainfall or more than one (1) inch of irrigation occurs soon after treatment. This risk must be assumed by the user. | | |
| East of Rocky Mountains: | | |
| 1 to 2% organic matter | 2½ to 8 | 2 to 3 |
| 2 to 5% organic matter | 2½ to 8 | 3 to 6 |
| West of Rocky Mountains: | | |
| | 2½ to 8 | 2 to 4 |
| (Apply Karmex in November, December, or January) | | |
| Orange, Grapefruit and Lemon | | |
| Do not apply Karmex under citrus trees that have been subjected to freezing within six (6) months. Use Karmex only under trees established in the grove for at least one (1) year. | | |
| Arizona (except Yuma area) and California (except Imperial) | 2½ to 8 | 2 to 4 |

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Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Karmex 80W (pounds) |
|--|-------------------------|------------------------|
| and Coachella Valleys) | | |
| Florida (oranges and grapefruit) | 2 1/2 to 8 | 4 to 8 |
| Texas (oranges and grapefruit) | 2 1/2 to 8 | 2 to 4 |
| Peach Use Karmex only under trees established in the orchard for at least three (3) years. Do not apply Karmex within three (3) months of harvest; in the far West, do not apply Karmex within eight (8) months of harvest. | 2 1/2 to 8 | 2 to 5 |
| Pear Use Karmex only under trees established in the orchard for at least one (1) year. Do not treat varie- ties grafted on full-dwarf root stocks. | 2 1/2 to 8 | 2 to 4 |
| Pecan Use only under trees established in the grove for at least three (3) years. Do not use on soils with less than one-half percent (1/2%) organic matter. | 2 1/2 to 8 | 2 to 4 |
| Walnut (Engl's.) California Use only under trees established in the orchard for at least one (1) year. | 2 1/2 to 8 | 2 to 3 |

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Mixing and Application: Fill the spray tank three-fourths (3/4) full with clean water and add the recommended amount of Surflan 75W. Mix thoroughly. Then add the recommended amount of Karmex 80W, mix thoroughly and fill the tank. Vigorous, continuous agitation is required until spray tank is empty to keep the powders in suspension. Use 20 to 40 gallons of water per acre (broadcast basis). Apply with a properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Check the sprayer daily for proper calibration and to ensure uniform application. Provide good mixing of the spray suspension in the tank before and during application.

Activation: A single one-half (1/2) to one (1) inch rain or sprinkler irrigation is required to activate the herbicides. If weeds begin to emerge, a shallow cultivation (one to two inches) will destroy existing weeds and place Surflan and Karmex in the zone of weed seed germination.

Precaution: Poor weed control may result if directions are not followed. Over application may result in crop injury or excessive soil residue. Apply the spray directly to the orchard or vineyard floor.

Caution: Read the Karmex label carefully for directions, cautions, and precautions before applying this product.

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Surflan/Paraquat Tank Mix

Surflan may be tank mixed with paraquat. Surflan provides preemergence control of certain annual grass and broadleaf weeds while paraquat provides non-selective postemergence control of annual grass and broadleaf weeds and top kill and suppression of perennial weeds.

The tank mix is recommended on the following crops:

| | | |
|---------|------------|-----------------|
| Almond | Grape | Peach |
| Apple | Grapefruit | Pear |
| Apricot | Lemon | Pecan |
| Avocado | Nectarine | Plum |
| Cherry | Olive | Prune |
| Fig | Orange | Walnut, English |
| Filbert | | |

Small fruits:

| | |
|------------|-------------|
| Blackberry | Boysenberry |
| Blueberry | Raspberry |

General Directions: Surflan/paraquat may be applied any time throughout the growing seasons. Choose an application schedule based on the specific weeds to be controlled by the Surflan/paraquat tank mix.

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Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Paraquat (quarts) |
|--------------------------------|-------------------------|----------------------|
| All crops listed on page 40 | 2 $\frac{3}{4}$ -8 | 1-2* |

Precaution: Do not allow paraquat spray to contact green stems, fruit or foliage as injury may result. Do not spray paraquat under windy conditions and use a shield for young trees or vines. Do not allow animals to graze on paraquat treated areas. Do not apply paraquat when nuts to be harvested are on the ground.

*Add a non-ionic spreader at eight (8) oz. per 100 gallons spray volume.

Mixing and Application: Add the recommended amount of Surflan to the spray tank according to directions for these tank mixes. Add paraquat during the last step of the filling operation. Agitate continuously during filling and through application. Apply in at least 30 gallons of water per acre. Apply when the weeds and grasses are succulent and the new growth is from one (1) to six (6) inches high. Retreatment or spot treatment may be necessary for late germinating weeds and grasses.

Activation: A single one-half (1/2) to one (1) inch rain or sprinkler irrigation to move Surflan into the weed seed germination zone is required to activate the herbicide. If weeds begin to emerge, a shallow cultivation (one to two inches) will destroy existing weeds and place Surflan in the zone of weed seed germination.

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Caution: Read the paraquat label carefully for directions, cautions and precautions before applying this product.

Surflan/Princep® (silmazine) Tank Mix

The Surflan/Princep tank mix controls the following weeds in addition to those controlled by Surflan alone.

| | |
|----------------------|---------------------|
| Brome, downy (cheat) | Prinibrush, Flora's |
| Fescue, rattail | Prickly lettuce |
| Fireweed | Ragweed |
| Hairgrass, silver | Ryegrass, annual |
| Knawel | Stelfscrees |
| Milkweed, climbing | Smartweed |
| Morningglory, annual | Spanishneedles |
| Mustard, black | Tansymustard |
| Mustard, wild | Wiregrass |
| Nightshade | |

The tank mix is recommended on the following crops:

| | |
|-------------|-----------------|
| Almond | Lemon |
| Apple | Orange |
| Avocado | Peach |
| Caneberries | Pear |
| Cherry | Pecan |
| Filbert | Plum |
| Grape | Walnut, English |
| Grapefruit | |

Where a rate range of application rates for Princep is given, use the lower rate on coarser textured soil and soil lower in organic matter; use the high rate on finer textured soils and soil higher in organic matter.

Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Princep 80W (pounds) |
|---|-------------------------|-------------------------|
| Apple, Pear and Sour Cherry | 2½ to 8 | 2½ to 5 |
| Almond and Peach California only Apply two (2) to four (4) foot band on each side of tree row. For peach in other states, see recommendations for peach, plum, and sweet cherry. | 2½ to 8 | 1¼ to 2½ |
| Avocado California | 2½ to 8 | 2½ to 5 |

Do not apply Princep to trees established in the grove less than three (3) years. Do not apply Princep to the Mission (Texas) variety of almonds. Do not apply Princep to almond trees propagated on plum rootstocks. Do not replant almond or peaches in soil treated with Princep for 12 months after treatment. Do not apply Princep on gravelly, sandy or loamy sand soil or on soil with less than one percent (1%) organic matter. Do not apply Princep to areas where water will accumulate.

Do not apply Princep to areas where water will accumulate.

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Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Princep 80W (pounds) |
|--|-------------------------|-------------------------|
| Caneberries Apply two and one-half (2½) to five (5) lbs. Princep per acre in the spring or apply a split application of two and one-half (2½) lbs. per acre in the spring plus two and one-half (2½) lbs. per acre in the fall. Apply in a minimum of 40 gallons of water per acre. On plantings less than six (6) months old, use one-half (½) the above Princep rate. To control quackgrass, apply five (5) lbs. Princep per acre in the fall or split the application applying two and one-half (2½) lbs. per acre in the fall plus two and one-half (2½) lbs. per acre in the spring, when quackgrass is actively growing. Do not apply Princep when fruit is present. | 2½ to 8 | 2½ to 5 |
| Filbert Washington and Oregon Apply Princep at two and one-half (2½) to five (5) lbs. per acre in the fall or apply a split application of two and one-half (2½) lbs. per acre in the spring and two and one-half (2½) lbs. per acre in the fall. Precaution: If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. Do not apply on gravelly, sandy or loamy same soil. Do not apply when nuts are on the ground during the harvest period. | 2½ to 8 | 2½ to 5 |

Broadcast Rates Per Acre

| Crop | Surflan 75W (pounds) | Princep 80W (pounds) |
|--|-------------------------|--|
| Grape Apply Princep any time between harvest and early spring. Precaution: Do not use Princep in vineyards established less than three (3) years. Do not apply Princep on gravelly, sandy or loamy sand soil. | 2½ to 8 | 2½ to 5 |
| Grapefruit, Lemon and Orange Arizona (lemon and orange only) California (except Imperial, Coachella and Palo Verde Valleys) Florida (grapefruit and orange only) Texas | 2½ to 8 | 2 Spring 2 Fall 2½ to 5 8 to 12 5 to 6 |
| Peach Plum and Sweet Cherry Apply Princep in late fall to early spring prior to weed emergence. | 2½ to 8 | 2 to 5 |

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Broadcast Rates Per Acre

| Crop | Surtlan 75W (pounds) | Princep 80W (pounds) |
|--|-------------------------|-------------------------|
| <p>Peach: Use Princep only in Arkansas, Louisiana, Missouri, Oklahoma, Texas and the states east of the Mississippi.</p> <p>Plum and Sweet Cherry: Use Princep only in Missouri and states east of the Mississippi River except Tennessee.</p> | | |
| Pecan | | |
| Sand and loamy sand | 2 2/3 to 8 | Do Not Use |
| Sandy loam | 2 2/3 to 8 | 2 to 5 |
| Loam or clay soil low in organic matter | 2 2/3 to 8 | 2 1/2 to 3 1/2 |
| Clay soil high in organic matter | 2 2/3 to 8 | 3 1/2 to 5 |
| <p>Note: Do not apply Princep when nuts are on the ground. Do not allow animals to graze in Princep treated areas.</p> <p>Do not use Princep in Arizona, California, New Mexico or west of the Pecos River in Texas as injury will occur. Do not make Princep applications to transplanted trees that have been established less than two (2) years in the grove as injury may occur.</p> | | |

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Broadcast Rates Per Acre

| Crop | Surtlan 75W (pounds) | Princep 80W (pounds) |
|--|-------------------------|-------------------------|
| Walnut, English | 2 2/3 to 8 | 2 1/2 to 5 |
| <p>Do not apply Princep to gravelly, sandy or loamy sand soils. Leveling and furrowing operations after application will lessen effectiveness of weed control. Do not apply Princep when nuts are on the ground.</p> | | |

Mixing and Application: Fill the spray tank three-fourths (3/4) full of clean water and add the recommended amount of Surtlan 75W. Mix thoroughly. Follow instructions on the Princep 80W label for making a slurry of the Princep 80W in a small amount of water in a separate container, then pour the slurry into the spray tank and finish filling the tank. Continuous, vigorous agitation is needed to keep the powders in suspension. Use 20 to 40 gallons of water per acre (broadcast basis). Apply with a properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Check the sprayer daily for proper calibration to ensure uniform application. Provide good mixing of the spray suspension in the tank before and during application.

Activation: A single one-half (1/2) to one (1) inch rain or sprinkler irrigation to move the tank mix combination into the weed seed germination zone is required to activate the herbicides. If weeds begin to emerge, a

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shallow cultivation (one to two inches) will destroy existing weeds and place Surlan and Princep in the zone of weed seed germination.

Precaution: Poor weed control may result if directions are not followed. Over application may result in crop injury or soil residues. Apply the spray directly to the orchard or vineyard floor.

Caution: Read the Princep label carefully for directions, cautions and precautions before applying this product.

Surlan/Roundup® Tank Mix

Surlan may be tank mixed with Roundup. In this tank mix, Surlan provides preemergence control of certain annual grass and broadleaf weeds while the Roundup provides non-selective, postemergence control of many annual and perennial weeds. This tank mix is recommended on the following crops:

| | | |
|----------------------|------------|-----------------|
| Almond | Grape | Pear |
| Apple | Grapefruit | Pecan |
| Avocado | Lemon | Pistachio |
| Cherry (non-bearing) | Orange | Walnut, English |
| Filbert | | |

See page 7 for a listing of weeds controlled by Surlan alone.

General Directions: Surlan/Roundup may be applied any time throughout the growing season. Choose an application schedule based on the specific weeds to be controlled by the Surlan/Roundup tank mix. Consult the Roundup label for specific weed growth stage directions to achieve best results. Karmex and Princep may be tank mixed with Surlan/

Roundup to provide preemergence control of those weeds listed. Use Roundup with the Surlan/Karmex tank mix for non-selective, postemergence control of annual weeds only. Use Roundup with the Surlan/Princep tank mix for non-selective, postemergence control of annual and perennial weeds.

Broadcast Rates Per Acre

| All Crops | Surlan 75W (pounds) | Roundup (quarts) |
|--|------------------------|---------------------|
| Existing annual grass and broadleaf weeds: | | |
| Less than 6" tall | 2 2/3 to 8 | 1 |
| Over 6" tall | 2 2/3 to 8 | 1 1/2 |
| Existing perennial weeds | 2 2/3 to 8 | 2-5 |

| Tree Crops | Preharvest Interval for Roundup Application |
|------------|--|
| Almond | 21 days |
| Apple | 14 days |
| Avocado | 14 days |
| Cherry | 1 year |
| Filbert | 21 days |
| Grapefruit | 14 days |
| Lemon | 14 days |
| Orange | 14 days |
| Pear | 14 days |
| Pecan | 21 days |
| Pistachio | 21 days |
| Walnut | 21 days |

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Note: Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. The combined total of all Roundup treatments must not exceed 10.6 quarts per acre per year. Do not feed or forage areas treated with Roundup for eight (8) weeks after application.

Precaution: Extreme care must be exercised to avoid contact of Roundup spray, drift or mist with green foliage, green bark or bark of trees established less than two (2) years, suckers, or fruit of desirable trees, crops, plants or other desirable vegetation. Spray contact with other matured bark on the main trunk can result in serious localized or translocated damage. If weeds have been mowed, allow regrowth to reach the recommended stage of growth prior to application of this product. Do not apply Roundup to weeds under drought stress.

| Vines | Preharvest Interval for Roundup Application |
|---|--|
| Grape (Raisin, Table, Wine) | 14 days |
| <p>Note: Roundup applications should not be made when green shoots or canes or foliage are in the spray zone. (In the Northeast and Great Lakes regions, Roundup applications must be made prior to the end of bloom stage of grapes to avoid injury.)</p> <p>If repeat Roundup treatments are necessary for weed control in vineyards, do not exceed a total of</p> | |

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10.6 quarts of Roundup per acre per year. Do not treat grapes with Roundup between 14 days before harvest to fall dormancy when no green vegetation, canes or shoots exist.

Precaution: Do not allow Roundup spray, drift or mist to contact green foliage, green bark, suckers or vines and renewals less than three (3) years of age. Roundup spray contact other than with mature bark of the main trunk, can result in serious localized or translocated damage.

Mixing and Application: Add the recommended amount of Surlan, or Surlan and other residual herbicides to the spray tank according to directions for these tank mixes. Add Roundup during the last step of the filling operation. Agitate continuously during filling and throughout application. Apply in 20 to 60 gallons of water per acre in a properly calibrated low pressure herbicide sprayer. Check the sprayer daily for proper calibration and uniform application.

Activation: A single one-half (1/2) to one (1) inch rain or sprinkler irrigation to move Surlan into the weed seed germination zone is required to activate the herbicides. If weeds begin to emerge, a shallow cultivation (one to two inches) will destroy existing weeds and place Surlan in the zone of weed seed germination.

Caution: Read the Roundup label carefully for directions, cautions and precautions before applying this product.

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Surflan Application with Liquid Fertilizers

General Instructions

Surflan may be mixed with most liquid fertilizer materials. The combination of Surflan with solutions and suspension-type fertilizers has provided weed and grass control equal to the same rates of Surflan applied in water. Follow Surflan label recommendations regarding rates per acre, crops, application directions, special instructions, cautions and special precautions. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and applications are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

Testing for Tank Mix Compatibility in Liquid Fertilizers:

Surflan alone or in tank mixture with dry flowables, wettable powders (WP), liquids (L), flowables (F), aqueous suspensions (AS), solutions (S) or emulsifiable concentrates (EC) may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full-scale mixing. This will determine whether a compatibility agent is needed and which agent does the best job. The seven (7) agents listed on page 54 have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers. Use the following test to select the correct agent for your mixture:

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1. Put one (1) pint of liquid fertilizer in a quart jar.
2. Add one (1) to four (4) teaspoonsful of the dry flowable, WP, L, F, or AS formulation (depending on the recommended rate per acre) to the liquid fertilizer. Close jar and agitate until the materials are dispersed evenly in the fertilizer. If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
3. After dispersing the materials (Step 2), add three (3) to four (4) teaspoonsful of any emulsifiable formulation (EC) to the jar and shake well. Add solution herbicides (S) to the mixture last and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds) which will not disperse again when agitated, a compatibility agent is needed. If the mixture is easily dispersed to its original state with slight agitation, no agent is needed but good agitation must be provided in the fertilizer spray tank.
4. If the need for a compatibility agent is shown in Step 3: Using a clean quart jar, start at Step 1 above, add one-half (1/2) teaspoon of the compatibility agent to the liquid fertilizer, mix well, then repeat Steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one-half (1/2) hour or longer. If slight separation does occur, two (2) to three (3) inversions of the jar should give a uniform remix. If oily curds form which will not disperse, more agent or another agent should be tried.

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Use a clean jar for each test. The compatible mixture will have a uniform appearance and will be relatively easy to keep mixed with gentle agitation of the jar.

Liquid Fertilizer Mixing Instructions Surlan In Liquid Fertilizer

Aqueous suspensions such as Surlan can be mixed with liquid fertilizers. The use of compatibility agents is especially important when tank mixing emulsifiable concentrates (EC) with dry flowables, wettable powders (WP), flowables (F), liquids (L), aqueous suspensions (AS) or solutions (S) in liquid fertilizer. These compatibility agents can be used at rates as low as one and one-half (1½) to two (2) pints per ton of liquid fertilizer and should be mixed well with the fertilizer before adding the herbicides. Read the label on the compatibility agent and follow the directions.

1. Sponlo 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC)
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mulz 734-2 (Thompson-Hayward Chemical Co., Kansas City, KS)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Amoco Spray Mate™ (Amoco Oil Co., Chicago, IL)
7. Kem-Link (Universal Coop, Minneapolis, MN)

All of the above are phosphate, ester-type surfactants designed to be used with liquid fertilizers. They usually do not work well as compatibility agents in tank mixtures in plain water.

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8. Blendex™ (Helena Chemical Co., Cayce - West Columbia, S.C.)
9. Spray-Aide™ (Miller Chemical and Fertilizer Corp., Hanover, Pa.)

Application Instructions

Spread the Surlan/fertilizer mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

Surlan Performance Guarantee

(A Limited Warranty of Weed and Grass Control)

Elanco Products Company warrants that Surlan will control the weeds and grasses as indicated on its current label when used according to label directions and subject to the following limitations:

1. Purchaser must notify Elanco promptly if a lack of satisfactory control occurs. Such notice must be given within 30 days after the first planting or application of Surlan to the treated crop, whichever occurs later.
2. An Elanco representative must be satisfied that Purchaser used Surlan according to label directions and must visually observe unsatisfactory control of weeds in the field.
3. The product guarantee will extend to the following applications only:
 - a) Preplant surface application (PPSA) when a light tillage is used prior to planting.
 - b) Postplant surface application (SA) when a light tillage is used prior to or just following crop emergence.
 - c) Any recommended application where a single one-half (½) inch rainfall or sprinkler irrigation occurs prior to weed seedling emergence.

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4. The Purchaser must provide an Elanco representative with an invoice or other satisfactory record which shows the price and quantity of Surflan purchased
5. Elanco's liability will be limited to a refund of the purchase price of the Surflan applied to the acreage on which weed control was not satisfactory or, at the option of the Purchaser, a refund of an equivalent amount of Surflan.
6. Void outside the U.S.A.

Disclaimer of Warranties

The warranty printed above is the only warranty applicable to this product. All other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, are disclaimed.

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 and under no circumstances shall Elanco be liable for special, indirect or consequential damages.

Inherent Risk of Use

Failure to carefully follow the directions for use of Surflan may result in unsatisfactory weed control or crop injury. Factors such as seedling disease, foliage disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may also result in unsatisfactory weed control or crop injury.

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Amben® - chloramben, Union Carbide Agricultural Products Co., Inc.
 Dyanap® - naptalam + dinoseb, Unroyal Chemical
 Goal® - oxyfluorfen, Rohm and Haas Company
 Karmax® - diuron, E. I. duPont de Nemours and Company
 Klean-Krop® - naptalam + dinoseb, Thompson-Hayward Company
 Lexone® - metribuzin, E. I. duPont de Nemours and Company
 Lorax® - thuraxon, E. I. duPont de Nemours and Company
 Princep® - simazine, Ciba-Geigy Corporation
 Roundup® - glyphosate, Monsanto Company
 Sencor® - metribuzin, Bayer GmbH
 Trehan® - E.C. Pro-MTF™, metribuzin, Elanco Products Company

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