

ACCEPTED

MAR - 9 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 471-151

SURFLAN® A.S. (E.P.A. REG. NO. 1471-112)
SURFLAN® Dry Flowable (E.P.A. REG. NO. 1471-151)

SURFLAN/Preview® for Weed Control in Soybeans
(Do Not Use in California)

SURFLAN may be tank-mixed with Preview for preemergence weed control in soybeans.

SURFLAN/Preview controls those weeds listed for SURFLAN alone plus these additional weeds:

Controlled

Cocklebur, common
Hophornbeam copperleaf
Jimsonweed
Mustards
Pigweed
(Palmer amaranth)
(Smooth)
(Tall waterhemp)

Prickly sida
(Teaweed)
Ragweed
(Common)
Smartweed
Spotted spurge
Sunflower
Velvetleaf

Partially Controlled

Burcucumber
Eastern black nightshade
Morningglory
(Tall)
(Ivyleaf)
(Pitted)
(Entireleaf)

Nutsedge species
Ragweed
(Giant)

SURFLAN/Preview should be applied to the soil surface within two (2) days after planting but before the crop emerges. Do not spray overtop of emerged soybeans or severe crop injury or death will occur.

Soil Texture	SURFLAN		+ Preview Dispersable Granules	
	A.S. (Pints)	or Dry Flowable (Pounds)	0.5-3% O.M. (Ounces)	3-5% O.M.
Coarse	1	0.6	6	7
Medium	1	0.6	7	8
Fine	1 1/2	0.9	8	9 - 10

NOTE: SURFLAN/Preview will only provide partial control of fall panicum at these reduced SURFLAN use rates. For control of fall panicum use one and one-half (1 1/2), two (2) and three (3) pints per acre of SURFLAN A.S. and nine-tenths (0.9), one and two-tenths (1.2) and one and eight-tenths (1.8) pounds per acre of SURFLAN Dry Flowable on coarse, medium and fine textured soils respectively.

Do not apply Preview to soils with less than one-half percent (1/2%) organic matter.

Use higher rates of Preview on soils with higher organic matter or heavy pressure from large deep germinating weed seeds.

Plant soybean seed in areas to be treated with Preview one and one-half to two (1 1/2 to 2) inches deep on a flat or raised seedbed only, or crop injury may occur.

Soybean injury from Preview may occur if excessive rainfall occurs after application but before soybeans germinate.

Activation and Cultivation

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••••• Preemergence activity of SURFLAN/Preview requires rainfall or irrigation to activate. Best results are obtained if treatment is made to moist soil and followed by a single rainfall or irrigation of one-half to one (1/2 to 1) inches before weeds germinate. On dry soil, one to two (1 to 2) inches is required for activation. If moisture is insufficient to activate the herbicide, a rotary hoeing or shallow cultivation should be made after emergence of the crop while weeds are small enough to be controlled by mechanical means.

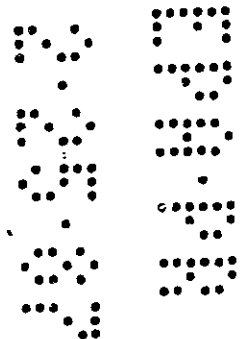
Precautions

Read the Preview label carefully for cautions and precautions relating to environmental hazards, planting of rotation crops, sprayer contamination and cleanup, soil pH, organic matter and soil texture use restrictions, soybean variety planting restrictions, restrictions where atrazine or Scepter were used the previous year, restrictions concerning use with organophosphate pesticides, grazing restrictions and other directions, precautions and limitations before applying the SURFLAN/Preview tank-mix.

Read the SURFLAN labels carefully for additional directions, precautions and limitations before applying these products.

Preview™ (chlorimuron ethyl plus metribuzin, DuPont)
Scepter® (imazaquin, American Cyanamid)
SURFLAN® (oryzalin, Elanco)

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



~~SURFLAN DRY FLOWABLE~~ (E.P.A. REG. NO. 1471-151)

**SURFLAN/LASSO®, AND SURFLAN/LASSO/LEXONE® OR
SENCOR® COMBINATIONS FOR WEED CONTROL IN SOYBEANS**

Surflan Dry Flowable may be tank-mixed with Lasso or Lasso Micro-Tech™ and Lasso or Lasso Micro-Tech plus Lexone or Sencor for weed control in soybeans.

Surflan/Lasso Tank-Mix

Surflan/Lasso controls those weeds listed for Surflan alone plus provides partial control or suppression of the following weeds listed on either the Surflan or Lasso labels.

Ladysthumb
Morningglory
Nightshade, black
Nightshade, hairy
Prickly sida (teaweed)
Smartweed, Pennsylvania
Velvetleaf

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JAN 16 1986
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The Surflan/Lasso tank-mix may be applied to the soil surface after planting up through two (2) days after planting and prior to crop or weed emergence. Apply the tank-mix in 20 to 40 gallons of water per acre with any low pressure herbicide sprayer. Do not spray overtop of emerged soybeans.

Broadcast Rates Per Acre

<u>Soil Texture</u>	<u>Surflan Dry Flowable (Pounds)</u>	<u>Lasso or Lasso Micro-Tech (Quarts)</u>
Coarse	0.6	1.5 - 2
Medium	0.6	2 - 2.5

Use the lower rate in the rate ranges on soils with less than 3% organic matter and the higher rate on soils with 3% or more organic matter. Use the higher rate in the recommended range in areas of heavy weed infestations.

Surflan alone plus these additional weeds that are listed on either the Lasso/Lexone or Sencor labels.

Prickly sida (teaweed)
Ragweed, common
Smartweed, Pennsylvania
Velvetleaf

Surflan/Lasso/Lexone or Sencor provides partial control or suppression of the following weeds listed on either the Surflan, Lasso, Lexone or Sencor labels:

Cocklebur
Jimsonweed
Ladysthumb
Morningglory
Nightshade, black
Nightshade, hairy
Ragweed, giant
Sicklepod

The Surflan/Lasso/Lexone or Sencor tank-mix may be applied to the soil surface after planting up through two (2) days after planting and prior to crop or weed emergence. Apply the tank-mix in 20 to 40 gallons of water per acre with any low pressure herbicide sprayer. Do not spray overtop of emerged soybeans.

Broadcast Rates Per Acre

Soil Texture	Surflan Dry Flowable (Pounds)	Lasso or Lasso Micro-Tech (Quarts)	Lexone 4L or Sencor 4 (Pints)	Lexone Dry Flowable or Sencor Dry Flowable (Pounds)
Coarse	0.6	1.5 - 2	0.33 - 0.5	0.25 - 0.33
Medium	0.6	2 - 2.5	0.5 - 0.75	0.33 - 0.5

Use the lower rate in the above rate ranges on soils with less than 3% organic matter and the high rate on soils with 3% or more organic matter. Use the higher rate in the recommended range in areas of heavy weed infestations.

Do not use Lexone or Sencor on coarse soils with less than 1% organic matter.

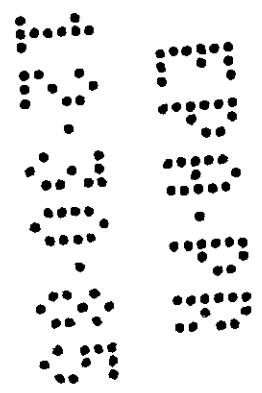
Special Precautions: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or forage. Do not contaminate any body of water or apply to any area not specified on the label. Do not allow sprays to drift onto adjacent desirable plants. Do not plant any crop other than soybeans within four (4) months after application.

Caution: Read the Surflan, Lasso, Lexone or Sencor labels carefully for directions, precautions and limitations before applying these products.

- SURFLAN® - oryzalin - Elanco Products Company
- Lasso® - alachlor - Monsanto Company
- Lasso® Micro-Tech™ - alachlor - Monsanto Company
- Lexone® - metribuzin - E.I. DuPont de Nemours and Company
- Sencor® - metribuzin - Bayer GmbH

cjsurfsupp123
(Revised 12/03/85) - Deleted recommendations for fine textured soils; placed jimsonweed and sicklepod in partial control or suppressed category rather than controlled category for three-way combination treatment.

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(08/28/85)

SURFLAN® DRY FLOWABLE (E.P.A. REG. NO. 1471-151)

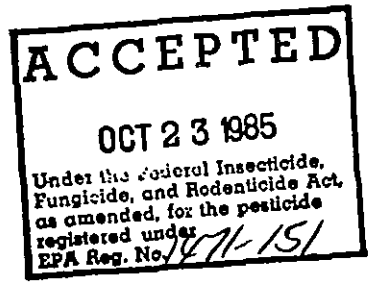
SURFLAN/LASSO®, AND SURFLAN/LASSO/LEXONE® OR SENCOR® COMBINATIONS FOR WEED CONTROL IN SOYBEANS

SURFLAN Dry Flowable may be tank-mixed with Lasso or Lasso Micro-Tech™ and Lasso or Lasso Micro-Tech plus Lexone or Sencor for weed control in soybeans.

SURFLAN/LASSO Tank-Mix

SURFLAN/Lasso controls those weeds listed for SURFLAN alone plus provides partial control or suppression of the following weeds listed on either the SURFLAN or Lasso labels.

- Ladysthumb
- Morningglory
- Nightshade, black
- Nightshade, hairy
- Prickly sida (teaweed)
- Smartweed, Pennsylvania
- Velvetleaf



The SURFLAN/Lasso tank-mix may be applied to the soil surface after planting up through two (2) days after planting and prior to crop or weed emergence. Apply the tank-mix in 20 to 40 gallons of water per acre with any low pressure herbicide sprayer. Do not spray overtop of emerged soybeans.

Broadcast Rates Per Acre

<u>Soil Texture</u>	<u>SURFLAN Dry Flowable (Pounds)</u>	<u>Lasso or Lasso Micro-Tech (Quarts)</u>		
Coarse	0.6	1.5 - 2
Medium	0.6	2 - 2.5
Fine	0.6 - 0.9	2.5 - 3

Use the lower rate in the rate ranges on soils with less than 3% organic matter and the higher rate on soils with 3% or more organic matter. Use the higher rate in the recommended range in areas of heavy weed infestations.

SURFLAN/LASSO/LEXONE OR SENCOR TANK-MIX

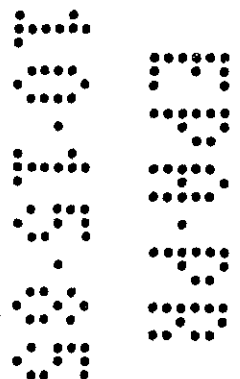
SURFLAN/Lasso/Lexone or Sencor controls those weeds listed for SURFLAN alone plus these additional weeds that are listed on either the Lasso/Lexone or Sencor labels.

- Jimsonweed
- Prickly sida (teaweed)
- Ragweed, common
- Sicklepod
- Smartweed, Pennsylvania
- Velvetleaf

SURFLAN/Lasso/Lexone or Sencor provides partial control or suppression of the following weeds listed on either the SURFLAN, Lasso, Lexone or Sencor labels:

- Cocklebur
- Ladysthumb
- Morningglory
- Nightshade, black
- Nightshade, hairy
- Ragweed, giant

The SURFLAN/Lasso/Lexone or Sencor tank-mix may be applied to the soil surface after planting up through two (2) days after planting and prior to crop or weed emergence. Apply the tank-mix in 20 to 40 gallons of water per acre with any low pressure herbicide sprayer. Do not spray overtop of emerged soybeans.



Broadcast Rates Per Acre

Soil Texture	SURFLAN Dry Flowable (Pounds)	Lasso or Lasso Micro-Tech (Quarts)	Lexone 4L or Sencor 4 (Pints)	Lexone Dry Flowable or Sencor Dry Flowable (Pounds)
Coarse	0.6	1.5 - 2	0.33 - 0.5	0.25 - 0.33
Medium	0.6	2 - 2.5	0.5 - 0.75	0.33 - 0.5
Fine	0.6 - 0.9	2.5 - 3	0.75 - 1	0.5 - 0.66

Use the lower rate in the above rate ranges on soils with less than 3% organic matter and the high rate on soils with 3% or more organic matter. Use the higher rate in the recommended range in areas of heavy weed infestations.

Do not use Lexone or Sencor on coarse soils with less than 1% organic matter.

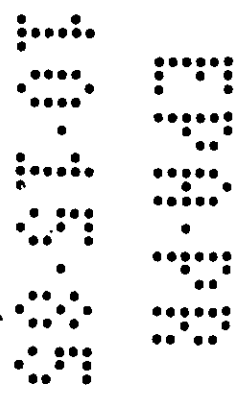
Special Precautions: Poor weed control and/or crop injury may result if directions are not followed. Over application may result in crop injury and/or soil residue. Do not use treated vines for feed or forage. Do not contaminate any body of water or apply to any area not specified on the label. Do not allow sprays to drift onto adjacent desirable plants. Do not plant any crop other than soybeans within four (4) months after application.

Caution: Read the SURFLAN, Lasso, Lexone or Sencor labels carefully for directions, precautions and limitations before applying these products.

- SURFLAN® - oryzalin - Elanco Products Company
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- Sencor® - metribuzin - Bayer GmbH

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(08/28/85)

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(Revised 09/13/85)

SURFLAN® DRY FLOWABLE (E.P.A. REG. NO. 1471-15)

SURFLAN DRY FLOWABLE MIXING INSTRUCTIONS

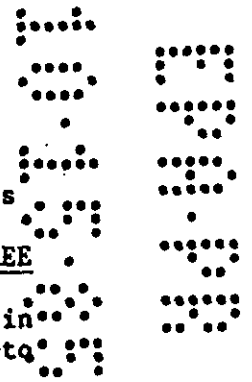
ACCEPTED
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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1471-151

Mixing Instructions In Water Alone

1. Be sure sprayer is clean and not contaminated with any foreign material.
2. Fill tank one-fourth (1/4) full with clean water and start agitation.
3. Be certain that agitation system is working properly. Vigorous, continuous agitation throughout the spray tank is required with Dry Flowable formulations. Agitation should be sufficient to create a rippling or rolling action on the liquid surface. Sparger pipe agitation generally provides the best agitation in spray tanks.
4. To prevent foaming, avoid stirring or splashing air into the mixture by placing the end of the fill pipe below the surface of the water in the spray tank during the filling process.
5. Pour product directly from container into tank. Controlled addition of the product is important to assure adequate wetting and mixing to prevent clogging of screens and outlet ports.
6. Continue filling tank with water until full.

Tank-Mix Instructions

1. Add SURFLAN Dry Flowable to the spray tank following the instructions outlined above for SURFLAN alone.
2. Fill the spray tank to 90% full with water.
3. Add other formulations in this order, other dry flowables, wettable powders (WP), aqueous suspensions (A.S.), flowables (F), liquids (L), solutions (S) and emulsifiable or liquid concentrates (E.C., L.C.) in this order ALLOWING TWO TO THREE MINUTES BETWEEN THE ADDITION OF EACH PRODUCT, and agitate continuously until the product(s) are completely dispersed in the water. Each chemical added to a spray tank needs time to



either wet or mix with water and other chemicals in the spray tank. To insure proper mixing, time and agitation is required between the addition of each of the additional products.

- 4. Continue filling tank with water until full.

General Instructions and Precautions

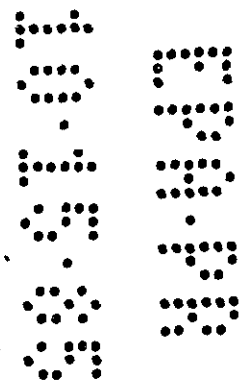
- 1. For either SURFLAN Dry Flowable alone or in tank mix combination maintain agitation from filling through application. If spraying and agitation is stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend again all the material in the bottom of the tank before continuing the spray application. Sometimes it is more difficult to resuspend settled material than it is to suspend it originally. A sparger agitator is particularly useful for this purpose.
- 2. In-line screens in the tank should be no finer than 16 mesh (16 mesh has bigger openings than 50 mesh).
- 3. If a buildup of material is seen on the walls of the spray tank, wash the tank with soapy water between filling. Rinse and continue the spraying operation. Clean tank, lines and screens thoroughly after use.
- 4. Read and carefully follow all label instructions for each material added to the tank.

Read the SURFLAN Dry Flowable label for additional directions, precautions and limitations before use.

SURFLAN® Dry Flowable - oryzalin - Elanco Products Company

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Revised 09/13/85

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Indianapolis, Indiana 46285



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SURFLAN® DRY FLOWABLE (E.P.A. REG. NO. 1471-151)

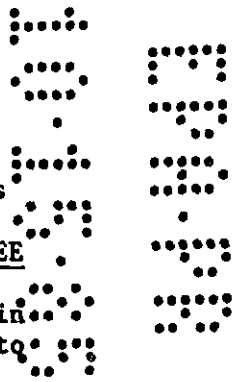
SURFLAN DRY FLOWABLE MIXING INSTRUCTIONS

Mixing Instructions In Water Alone

1. Be sure sprayer is clean and not contaminated with any foreign material.
2. Fill tank one-fourth (1/4) full with clean water and start agitation.
3. Be certain that agitation system is working properly. Vigorous, continuous agitation throughout the spray tank is required with Dry Flowable formulations. Agitation should be sufficient to create a rippling or rolling action on the liquid surface. Sparger pipe agitation generally provides the best agitation in spray tanks.
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5. Pour product directly from container into tank. Controlled addition of the product is important to assure adequate wetting and mixing to prevent clogging of screens and outlet ports.
6. Continue filling tank with water until full.

Tank-Mix Instructions

1. Add SURFLAN Dry Flowable to the spray tank following the instructions outlined above for SURFLAN alone.
2. Fill the spray tank to 90% full with water.
3. Add other formulations in this order, other dry flowables, wettable powders (WP), aqueous suspensions (A.S.), flowables (F), liquids (L), solutions (S) and emulsifiable or liquid concentrates (E.C., L.C.) in this order ALLOWING TWO TO THREE MINUTES BETWEEN THE ADDITION OF EACH PRODUCT, and agitate continuously until the product(s) are completely dispersed in the water. Each chemical added to a spray tank needs time to



either wet or mix with water and other chemicals in the spray tank. To insure proper mixing, time and agitation is required between the addition of each of the additional products.

- 4. Continue filling tank with water until full.

General Instructions and Precautions

- 1. For either SURFLAN Dry Flowable alone or in tank mix combination maintain agitation from filling through application. If spraying and agitation is stopped before the tank is empty, the materials may settle to the bottom. In this case, it is important to resuspend again all the material in the bottom of the tank before continuing the spray application. Sometimes it is more difficult to resuspend settled material than it is to suspend it originally. A sparger agitator is particularly useful for this purpose.
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