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DowElanco
9002 Purdue Road, Quad IV
Indianapolis, Indiana 46268-1190

Surflan 75WSP
EPA REG. NO. 62719-106

(10/10/90)

Surflan*

75WSP

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

Active Ingredient
oryzalin 3,5-dinitro-N⁴-N⁴-dipropylsulfanilamide 75%
Inert Ingredients 25%
Contains 1.0 pound active ingredient per 1.3 pound water soluble packet

This resealable package contains Surflan 75WSP herbicide in water soluble packets. Do not remove water soluble packet except for immediate use

Precautionary Statements

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

CAUTION

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist and contact with skin, eyes or clothing. Mixer/loader/applicators must wear eye protection and protective clothing consisting of coveralls, a long-sleeved shirt, shoes and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling.

First Aid

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

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

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

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

Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

Directions for Use

Read All Directions for Use Carefully Before Applying

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. See Directions for Use inside booklet.

Handling Precautions for Water Soluble Packets

Do not remove packet from foil overpack except for immediate use. Do not allow packet to come in contact with water prior to use. Do not handle with wet hands. Carefully reseal package after use and protect unopened packets from moisture.

STORAGE AND DISPOSAL

Storage: Store in original container only. In case of leak or spill, contain material with absorbent 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: Dispose of overpack in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

In case of an emergency endangering life or property involving this product, call collect 517-636-4400

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

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WU 3340 AMX

EPA Reg No. 62719-106

EPA Est. 5905-AR-1

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Surflan[®]

75WSP

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

Active ingredient:

oryzalin: 3,5-dinitro-N ¹ ,N ⁴ -	
diopropylsulfanilamide.....	75%
Inert ingredients.....	25%

Contains 1.0 pound active ingredient per 1.3 pounds water soluble packet.

EPA Reg. No. 62719-10E

XPRM-5498

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XPRM-5498

Herbicide

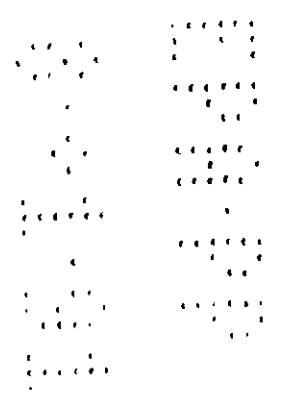
ACCEPTED

11-13-91

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 62719-10E

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NOTES



Precautionary Statements

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

CAUTION

Causes eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist and contact with skin, eyes, or clothing. Mixer/loader/applicators must wear eye protection and protective clothing consisting of coveralls, a long-sleeved shirt, shoes, and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling.

First Aid

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

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

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

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

Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Handling Precautions for Water

Soluble Packets

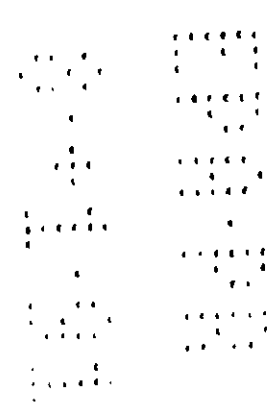
Do not remove packet from foil overpack except for immediate use. Do not allow packet to come in contact with water prior to use. Do not handle with wet hands. Carefully reseal package after use and protect unopened packets from moisture.

STORAGE AND DISPOSAL

Storage: Store in original container only. In case of leak or spill, contain material with absorbent 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: Dispose of overpack in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



General Information

Surflan 75WSP herbicide is a preemergence, surface applied herbicide for the control of most annual grasses and certain broadleaf weeds. Surflan 75WSP controls susceptible annual weeds by disrupting plant growth processes during germination. Surflan 75WSP may be applied in liquid sprays of water or liquid fertilizer (See special mixing instruction if used with liquid fertilizer). Surflan 75WSP may be tank mixed with other herbicides to control existing vegetation or improve the spectrum of weeds controlled. Surflan 75WSP alone does not control established weeds.

General Use Precautions

Do not graze or feed forage from treated fields or orchards to livestock.

Do not over-apply Surflan 75WSP. Over-application may result in crop injury or soil residue.

Do not plant any root crop for 12 months following a Surflan 75WSP application.

Do not use Surflan 75WSP on soils containing more than 5% organic matter.

Apply Surflan 75WSP directly to the soil surface in orchards or vineyards.

Carefully follow label directions to avoid poor weed control or crop injury.

Chemigation: Do not apply Surflan 75WSP through any type of irrigation system.

Soil Preparation

Optimum herbicidal activity occurs when Surflan 75WSP is applied to the soil surface. Prior to application, existing unwanted vegetation should be destroyed by tillage or use of contact or translocated herbicides. Crop or weed residues, prunings and trash should be thoroughly mixed into the soil by tillage equipment or removed before treatment. Soil should be in good tilth and free of clods at the time of application.

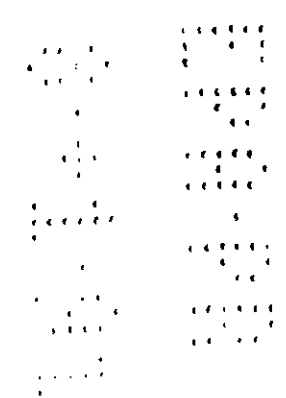
Activation and Cultivation

A single 1/2 to 1 inch rainfall or sprinkler irrigation is required to activate Surflan 75WSP and move the herbicide into the zone of weed germination. Rainfall or irrigation of 1 inch or more is needed to activate Surflan 75WSP on fine-textured, high organic matter soils. If weeds begin to emerge, a shallow cultivation to a depth of 1 to 2 inches will destroy existing weeds and place Surflan 75WSP in the zone of weed seed germination.

Mixing Directions

Surflan 75WSP - Alone

Surflan 75WSP may be applied in water and most liquid fertilizer materials (See "Special Instruction" on page 7 for mixing water soluble packets with liquid fertilizer materials). Prior to mixing Surflan 75WSP in liquid fertilizer, refer to the label section entitled "Testing for Compatibility in Liquid Fertilizers" for test procedures to determine compatibility with the fertilizer product to be used. The combination of



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Surflan 75WSP with solution and suspension-type fertilizers provides annual weed control equal to Surflan 75WSP applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale.

Special Instruction: Do not add Surflan 75WSP water soluble packets directly to liquid fertilizers. Surflan 75WSP in water soluble packets should first be premixed with water (See instruction for premixing or slurring below). Add premixed Surflan 75WSP to the spray tank through a 20-35 mesh wetting screen to insure good initial dispersion. Start with a clean spray tank. Fill the sprayer to 1/3 to 1/2 of the required spray volume. Start agitation. Add the required number of water soluble packets to the spray tank. Allow time for complete mixing of Surflan 75WSP after packets have disintegrated. Continue agitation and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Precaution: Do not allow the mixture to siphon back into the water source.

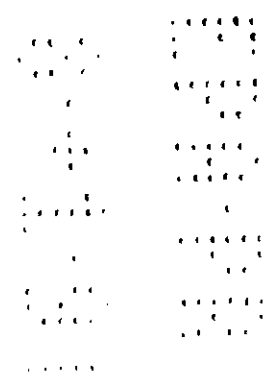
Surflan 75WSP - Tank Mix Combinations

Surflan 75WSP may be tank mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing Surflan 75WSP and another product in liquid fertilizer, refer to the tank mix product manufacturer's label to determine if application in liquid fertilizer is recommended. Also

refer to the section in this label entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used. The combination of Surflan 75WSP with solution and suspension-type fertilizers provides annual weed control equal to Surflan 75WSP applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale. Read and follow all label instructions for each material to be added to the spray tank. Vigorous continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. To prevent foaming, keep the end of the fill pipe below the surface of the water in the spray tank during filling to prevent air from being stirred or splashed into the mixture.

Mixing Order: Fill the spray tank to 3/4 of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products. Allow time for complete mixing after Surflan 75WSP water soluble packets have disintegrated.

Add different formulation types in the following order: dry flowables (DF); Surflan 75WSP and/or other wettable powders (WP); flowables (F), liquids (L) or aqueous suspensions (AS); solutions (S); and emulsifiable concentrates (EC). Fill tank to final



spray volume. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed.

Premixing: When tank mixing or mixing with liquid fertilizers, initial mixing and dispersion of dry flowable or wettable powder products may be improved by premixing with water (slurrying). Surfian 75WSP in water soluble packets should be slurred prior to mixing with liquid fertilizer materials. Where recommended for other products, follow product label instructions for each material. Adding the slurred material to the spray tank through a 20 to 35 mesh wetting screen will help assure good initial dispersion. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

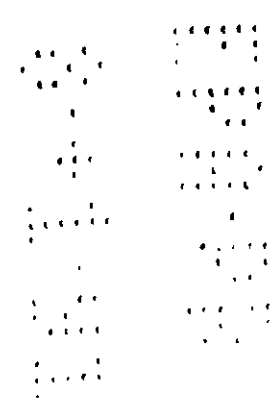
Testing for Compatibility in Liquid Fertilizers

Surflan 75WSP alone or in combination with other product formulations may not combine properly with some liquid fertilizer materials. Small quantities of such mixtures should always be tested before full-scale mixing. Follow the procedure that follows to determine if a compatibility agent is needed or which available agent performs best in the mixture being applied. Nine compatibility agents listed at the end

of this section have been thoroughly tested. Other surfactant materials available may not be formulated for use with liquid fertilizers.

Testing Procedure

1. Add 1 pint of liquid fertilizer to a 1 quart glass jar.
2. Add 1 to 4 teaspoonfuls (depending on application rate) of the products to be tank mixed in the liquid fertilizer. Add materials in the order recommended in the "Mixing Instructions" section of this label. Mix until evenly dispersed after addition of each formulation. If dry flowable or wettable powder formulations do not disperse well, it may be necessary to slurry the materials in a small amount of water before addition to the liquid fertilizer.
3. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oil 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 compatibility agent is needed, however, good agitation must be provided to maintain dispersion in the spray tank from mixing through application.
4. If the need for a compatibility agent is demonstrated in step 3, it may be tested as follows: Using a clean clear plastic or glass container, start at step 1, above. Add 1/2 teaspoonful of the compatibility agent to the liquid fertilizer, mix well, and then repeat steps 2 and 3.



An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separation or oil rising to the surface for 1/2 hour or longer. If slight separation occurs, 2 to 3 inversions of container should provide a uniform mixture. If oily curds form which will not disperse, try adding additional compatibility agent or test the effectiveness of an alternative compatibility agent using the procedure above. A clean jar should be used for each test.

Compatibility Agents

The phosphate ester-type surfactants listed below are designed for use with liquid fertilizers and can be mixed at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer. They usually do not work well as compatibility agent for tank mixes in plain water. Add the compatibility agent just before adding herbicides. Read and follow label directions for the compatibility agent.

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Con-oat (Farm Chemicals, Inc., Aberdeen, NC)
Not for use in California.
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mulz 734-2 (Thompson-Hayward Chemical Co., Kansas City, KS)
Not for use in California.
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
Not for use in California.

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6. Amoco Spray Mate™ (Amoco Oil Co., Chicago, IL)
Not for use in California
7. Kern-Link (Universal Coop. Minneapolis, MN)
Not for use in California
8. Blendex™ (Helena Chemical Co., Cayce - West, Columbia, SC)
Not for use in California.
9. Spray-Aide™ (Miller Chemical and Fertilizer Corp., Hanover, PA)

Application Methods

Ground Broadcast Application

Apply Surflan 75WSP in a total spray volume of 20 to 40 gallons per acre (broadcast basis), using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Use herbicide nozzle tips and screens no finer than 50 mesh for nozzle and in-line strainers. As the amount of spray volume per acre decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Avoid boom overlaps that will increase rates above those recommended.

Band Application

For band application, use the following formula to calculate the required amount of Surflan 75WSP per acre.

$$\frac{\text{Band Width (inches)}}{\text{Row Width (inches)}} \times \text{Broadcast rate per acre} = \text{Amount required per acre}$$

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Weeds and Grasses Controlled in Fruit and Nut Crops, and Vineyards

Annual Grasses

<u>Common Name</u>	<u>Scientific Name</u>
Barny, little	<i>Hordeum pusillum</i>
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Bluegrass, annual (Poa)	<i>Poa annua</i>
Brachiaria (Signalgrass)	<i>Brachiaria</i> spp.
Browntop panicum	<i>Panicum fasciculatum</i>
Crabgrass (Large crabgrass) (Smooth crabgrass)	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Cupgrass	<i>Eriochloa gracilis</i>
Downy brome	<i>Bromus tectorum</i>
Fall panicum (Spreading panicgrass)	<i>Panicum dichotomiflorum</i>
Foxtails (Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Pigeongrass) (Robust foxtail) (Yellow foxtail)	<i>Setaria</i> spp.
Guineagrass	<i>Panicum maximum</i>
Johnsongrass (Seeding only)	<i>Sorghum halepense</i>

Junglerice
 Lovegrass, Mexican
 Lovegrass, orcutt
 Oat, wild
 Ryegrass, annual (Italian)
 Sandbur, field
 Sprangletop, red
 Texas panicum
 (Buffalograss)
 (Coloradograss)
 Witchgrass

Echinochloa colonum
Eragrostis mexicana
Eragrostis orcuttiana
Avena fatua
Lolium multiflorum
Cenchrus incertus
Leptochloa filiformis
Panicum texanum

Panicum capillare

Annual Broadleaf Weeds

Common Name
 Carpetweed
 Chickweed
 Cudweed
 Fiddleneck, coast
 Florida pusley
 (Florida purslane)
 (Mexican clover)
 (Pusley)
 Henbit
 Knotweed, prostrate
 Lambsquarters
 Pigweeds
 (Carlessweed)
 (Prostrate pigweed)
 (Redroot pigweed)
 (Rough pigweed)
 (Smooth pigweed)
 (Spiny pigweed)
 (Tumble pigweed)

Scientific Name
Mollugo verticillata
Stellaria media
Gnaphalium chilense
Amaranthus intermedia
Richardia scabra

Lamium amplexicaule
Polygonum aviculare
Chenopodium album
Amaranthus spp.

Puncturevine
Purslane, common
Rockpurslane, redmaids
Shepherdspurse

Tribulus terrestris
Portulaca oleracea
Calandrinia caulescens
Capsella bursa-pastoris

Surflan 75WSP provides partial control or suppression of:

Common Name
Filaree, redstem
Filaree, whitestem
Groundsel, common
Ladysthumb
Lettuce, prickly
Mallow, common
Milkweed, climbing

Scientific Name
Erodium cicutarium
Erodium moschatum
Senecio vulgaris
Polygonum persicaria
Lactuca serotia
Melva neglecta
Lycopersicon

Morningglory, annual
Mustard, black
Mustard, wild
Nightshade, black
Prickly sida (teaweed)
Ragweed, common
Ragweed, giant
Rocket, London
Smartweed, annual
Sowthistle, annual
Spurge, prostrate
Spurge, spotted
Velvetleaf

cynanchoides
Ipomoea spp.
Brassica nigra
Sinapis arvensis
Solanum nigrum
Sida spinosa
Ambrosia artemisiifolia
Ambrosia trifida
Silymbrium ino
Polygonum spp.
Sonchus oleraceus
Euphorbia humistrata
Euphorbia maculata
Abutilon theophrasti

Approved Crops

Fruit and Nut Crops and Vineyards (Nonbearing and Bearing)

Surflan 75WSP - Alone

Apply Surflan 75WSP to fruit and nut crops and vineyards as a preemergence treatment to control annual grasses and broadleaf weeds listed in the "General Information" section of this label.

Surflan 75WSP is approved for use on the following crops:

Almond	Grapefruit	Pear
Apple	Kiwi	Pecan
Apricot	Lemon	Pistachio
Avocado	Macadamia Nut	Plum
Cherry	Nectarine	Pomegranate
Fig	Olive	Prune
Hibiscus	Orange	Walnut, English
Grape	Peach	

Small Fruits:

Blackberry	Current	Gooseberry
Blueberry†	Dewberry	Luganberry
Boysenberry	Elderberry	Raspberry

†Do not apply Surflan 75WSP to lowbush blueberries.

General Use Directions: Existing vegetation should be destroyed by tillage or use of a contact or translocated herbicide alone or in tank mix combination with Surflan 75WSP. To insure tank mix compatibility of Surflan 75WSP with contact or translocated herbicides, mix the products together in correct proportions in small containers of water. After mixing, let stand for 5 minutes and check for

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compatibility. If the combination remains mixed or can be resuspended easily, the mixture is compatible.

Application Methods: Surflan 75WSP may be applied in liquid sprays of water or liquid fertilizer. Refer to the "General Information" section of this label for mixing directions and details on application methods and precautions before use.

Activation: A single 1/2 to 1 inch rainfall or sprinkler irrigation is required to activate Surflan 75WSP and move the herbicide into the zone of weed seed germination. If weeds begin to emerge, a shallow cultivation 1 to 2 inches deep will destroy existing weeds and place Surflan 75WSP in the zone of weed seed germination. Rainfall or sprinkler irrigation of 1 inch or more is required to activate Surflan 75WSP on fine-textured or high organic matter soil.

Broadcast Application Rates

Soil Texture	Length of Control	Surflan 75WSP	
		Pounds/Acre	Packets/Acre
All Soil Textures	Short Term (2-4 months)	2.8	2
	Long Term (6-8 months) (8-12 months)	5.2 7.8	4 6

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

Surflan 75WSP - Tank Mix Recommendations
The following products are compatible with Surflan 75WSP when used in tank mix combination.

Performance and risk of carryover from products used in combination with Surflan 75WSP at recommended rates is the same as when each product is used separately. Follow tank mixing instructions provided in the "General Information" section of this label when mixing Surflan 75WSP with other products. Users should consult the manufacturers label of products to be tank mixed with Surflan 75WSP for specific information on use rates, additional weeds controlled, rotational crop restrictions or risk of carryover, special tank mix instructions, additional use directions, precautions and limitations before use.

Approved Surflan 75WSP - Tank Mix Combinations:

- | | |
|---|--------------------------------------|
| Surflan 75WSP/Casoron | Surflan 75WSP/Karmex |
| Surflan 75WSP/Goal | Surflan 75WSP/Krover I |
| Surflan 75W: P/Goal/
Gramoxone Super | Surflan 75WSP/Krover II |
| Surflan 75WSP/
Gramoxone Super | Surflan 75WSP/
Princep (s-mazone) |
| Surflan 75WSP/Hyver X | Surflan 75WSP/Roundup |
| | Surflan 75WSP/Sinbar |
| | Surflan 75WSP/Solcam |

Surflan 75WSP - Tank Mix Reference Table: The following table lists approved crops for Surflan 75WSP and products recommended for tank mixes with Surflan 75WSP (** = Approved Crop). Refer to the table to determine if the herbicides recommended for tank mixing can be applied to your crop. For use on a given crop, an asterisk must be indicated for Surflan 75WSP and the tank mix product.

	Butts Fruit	Classen	Sea	Hyatt II	Kansas	Kenny 66	Comstock Super	Percep	Roundup	Sells	Season
Almond	••	••	••	—	—	—	••	••	••	—	••
Apple	••	••	—	—	••	—	••	••	••	••	••
Apricot	••	—	••	—	—	—	••	—	—	—	••
Avocado	••	—	—	—	—	—	••	••	••	—	—
Cherry	••	••	—	—	—	—	••	••	••	—	••
Fig	••	—	—	—	—	—	••	—	—	—	—
Filbert	••	••	—	—	—	—	••	••	••	—	••
Grape	••	••	••	—	••	—	••	••	••	—	—
Grapefruit	••	—	—	••	••	••	••	••	••	••	••
Khal	••	—	—	—	—	—	—	—	—	—	—
Lemon	••	—	—	••	••	••	••	••	••	••	••
Macadamia Nut	••	—	—	—	••	—	—	••	—	—	—
Nectarine	••	••	••	—	—	—	••	—	—	—	••
Olive	••	—	—	—	••	—	••	••	—	—	—
Orange	••	—	—	••	••	••	••	••	••	••	••
Peach	••	••	••	—	••	—	••	••	—	••	••
Pear	••	••	—	—	••	—	••	••	••	—	••

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	Butts Fruit	Classen	Sea	Hyatt II	Kansas	Kenny 66	Comstock Super	Percep	Roundup	Sells	Season
Pecan	••	••	—	—	••	—	••	••	••	••	—
Pistachio	••	—	—	—	—	—	—	—	••	—	—
Plum	••	••	••	—	—	—	••	••	—	—	••
Pomegranate	••	—	—	—	—	—	—	—	—	—	—
Prune	••	—	••	—	—	—	••	—	—	—	••
Walnut, English	••	••	—	—	••	—	••	••	••	—	••
Small Fruits:											
Blackberry	••	••	—	—	••	—	••	••	—	••	—
Blueberry	••	••	—	—	••	—	••	••	—	••	—
Boysenberry	••	—	—	—	••	—	••	••	—	••	—
Currents	••	—	—	—	—	—	—	—	—	—	—
Dewberry	••	—	—	—	••	—	••	—	—	••	—
Elderberry	••	—	—	—	—	—	—	—	—	—	—
Gooseberry	••	—	—	—	••	—	••	—	—	—	—
Loganberry	••	—	—	—	••	—	••	••	—	••	—
Raspberry	••	••	—	—	••	—	••	••	—	••	—

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Warranty Disclaimer

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

Inherent Risks of Use

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

Limitation of Remedies

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

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

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

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

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Supplemental Labeling



DowElanco Quad IV, 9002 Purdue Road P.O. Box 681428 Indianapolis, Indiana 46268-1189 USA

Surflan* A.S. (EPA Reg. No. 62719-112)
Surflan 75WSP (EPA Reg. No. 62719-106)**
(For Distribution and Use Only in the State of Hawaii)

Surflan For Weed Control in Recently Transplanted or Established Coffee and Papaya

Application Directions: Apply directly to the orchard floor as a preemergence treatment to established plantings of Coffee and Papaya to control annual grasses and broadleaf weeds listed on the Surflan label. Application may be made in liquid sprays of water or liquid fertilizer. Use sufficient spray volume to achieve uniform spray distribution on the soil surface. A single rainfall, sprinkler, or equivalent uniform irrigation of 1/2 to 1 inch is required to activate Surflan and move the herbicide into the weed seed germination zone. Rainfall of 1 inch or more is required to activate Surflan on fine textured or high organic matter soils. If weeds begin to emerge before activation, shallow cultivate to a depth of 1 to 2 inches to destroy emerging weeds and place Surflan in the germination zone.

Soil Preparation: Destroy existing unwanted vegetation using tillage or by applications of postemergence herbicides. Crop residues, weed residues or prunings should be thoroughly mixed into the soil using tillage equipment or removed prior to application. Soil should be in good tilth and free of clods at the time of application.

Broadcast Application Rates:

Soil Texture	Desired Length of Control	Surflan 75WSP		Surflan A.S. (quarts/A)
		(Pounds/A)	(Packets/A)	
All Soil Textures	Short Term: (2-4 months)	2.67	2.0	2.0
	Long Term: (6-8 months)	5.33	4.0	4.0
	(8-12 months)	8.0	6.0	6.0

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-106

Precautions:

- Poor weed control may result if directions are not carefully followed. Over-application may result in crop injury or excessive soil residue.
- Do not apply Surflan to newly transplanted coffee or papaya plantings until the soil around plants is well settled by irrigation or rainfall and no cracks are present, otherwise crop injury may occur.
- Do not use on nursery seedbeds.
- Refer to the Surflan label for additional use directions, precautions and limitations before use.

*Trademark of DowElanco

**Surflan 75WSP (Surflan 75W in Water Soluble Package)

Supplemental Labeling



DowElanco

Quad IV, 9002 Purdue Road

P.O. Box 681428

Indianapolis, Indiana 46268-1189 USA

Surflan® A.S. (EPA Reg. No. 62719-112)
Surflan 75WSP (EPA Reg. No. 62719-106)**
Surflan Dry Flowable (EPA Reg. No. 62719-138)
(For Distribution and Use Only in the State of Hawaii)

Surflan For Weed Control in Recently Transplanted or Established Coffee and Papaya

Application Directions: Apply directly to the orchard floor as a preemergence treatment to established plantings of Coffee and Papaya to control annual grasses and broadleaf weeds listed on the Surflan label. Application may be made in liquid sprays, water or liquid fertilizer. Use sufficient spray volume to achieve uniform spray distribution on the soil surface. A single rainfall, sprinkler, or equivalent uniform irrigation of 1/2 to 1 inch is required to activate Surflan and move the herbicide into the weed seed germination zone. Rainfall of 1 inch or more is required to activate Surflan on fine textured or high organic matter soils. If weeds begin to emerge before activation, shallow cultivate to a depth of 1 to 2 inches to destroy emerging weeds and place Surflan in the germination zone.

Soil Preparation: Destroy existing unwanted vegetation using tillage or by applications of postemergence herbicides. Crop residues, weed residues or prunings should be thoroughly mixed into the soil using tillage equipment or removed prior to application. Soil should be in good tilth and free of clods at the time of application.

Broadcast Application Rates:

Soil Texture	Desired Length of Control	Surflan 75WSP		Surflan A.S.	Surflan Dry Flowable
		(Pounds/A)	(Packets/A)	(quarts/A)	(Pounds/A)
All Soil Textures	Short Term: (2-4 months)	2.67	2.0	2.0	2.4
	Long Term: (6-8 months)	5.33	4.0	4.0	4.7
	(8-12 months)	8.0	6.0	6.0	7.0

Precautions:

- Poor weed control may result if directions are not carefully followed. Over-application may result in crop injury or excessive soil residue.
- Do not apply Surflan to newly transplanted coffee or papaya plantings until the soil around plants is well settled by irrigation or rainfall and no cracks are present, otherwise crop injury may occur.
- Do not use on nursery seedbeds.
- Refer to the Surflan label for additional use directions, precautions and limitations before use.

*Trademark of DowElanco

**Surflan 75WSP (Surflan 75W in Water Soluble Package)

ACCEPTED

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-106