

Base Label

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. Protective clothing such as coveralls and/or a long-sleeved shirt, shoes, and impermeable gloves should be worn when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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

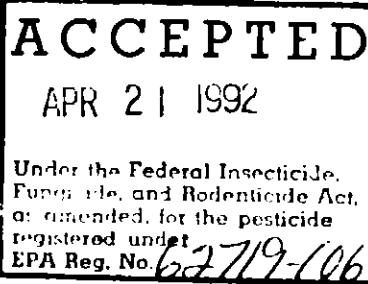
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

See Directions for Use inside booklet.

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.

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 attached 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.

EPA Reg. No. 62719-106

EPA Est. 5905-AR-1

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Herbicide

**Net Weight 45.5 lb
(Contains 35 x 1.3 lb
water soluble packets)**

revised 2/4/92

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(Label Booklet)

Surflan* 75WSP

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Active Ingredient:

oryzalin: 3,5-dinitro-*N,N*-dipropylsulfanilamide 75%
Inert Ingredients 25%

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

Keep Out of Reach of Children

CAUTION

See first aid and additional precautionary information inside the label booklet.

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

EPA Reg. No. 62719-106

PI 3620 AMP

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Herbicide

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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. Protective clothing such as coveralls and/or a long-sleeved shirt, shoes, and impermeable gloves should be worn when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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.
Poor weed control may result if directions are not carefully followed.
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: See instructions for chemigation in "Application Methods".

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 or most liquid fertilizer materials. Prior to mixing Surflan 75WSP in liquid fertilizer, refer to "Testing for Compatibility in Liquid Fertilizers" for test procedures to determine compatibility with the 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.

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.

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 slurrying below). Add premixed Surflan 75WSP to the spray tank through a 20-35 mesh wetting screen to insure good initial dispersion.

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

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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 tank mixing Surflan 75WSP with other herbicides, mix the products together in correct proportions in a small container of water. After mixing, let stand for 5 minutes and check for compatibility. If the combination remains mixed or can be resuspended easily, the mixture is compatible.

Tank Mixing In Liquid Fertilizer: Prior to mixing Surflan 75WSP with other products in liquid fertilizer, refer to the tank mix product manufacturer's label to determine if application in liquid fertilizer is recommended. Also refer to "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine compatibility with the 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). Surflan 75WSP in water soluble packets should be slurried prior to mixing with liquid fertilizer materials. Where recommended for other products, follow product label instructions for each material. Adding the slurried 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 dry flowable (DF), wettable powder (WP), aqueous suspension (AS), flowable (F), liquid (L), solution (S) or emulsifiable concentrate (EC) 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 testing procedure below to determine if a compatibility agent is needed or which compatibility agent works best in your liquid fertilizer plus herbicide mixture. 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.

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Testing Procedure

1. Add 1 pint of liquid fertilizer to 1 quart glass jar.
2. Add 1 to 4 teaspoonfuls of DF, Surlan 75WSP, other WP formulations, AS, F, or L formulations, depending on mixing ratio required, to the liquid fertilizer. Close the jar and shake 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. After dispersing the materials in step 2, add any S formulations to the jar and shake well. Finally, add EC formulations to the mixture and shake well. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer that will not redispense when agitated, a compatibility agent is needed. If the mixture is easily redispersed with slight agitation, a compatibility agent is not required. Good agitation, however, 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, the following procedure is recommended: Using a clean clear plastic or glass container, repeat step 1 above and add 1/2 teaspoon of the compatibility agent to the liquid fertilizer mixture. Shake 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 for 1/2 hour or longer. If slight separation occurs, 2 to 3 inversions of container should be sufficient to uniformly redispense the mixture. If layers form which will not disperse, try adding additional compatibility agent or use an alternative compatibility agent to achieve a uniform mixture.

Use a clean jar in each test. A compatible mixture will have a uniform appearance and will be relatively easy to redispense with gentle agitation of the jar.

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 agents 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. Compat (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.
6. Amoco Spray Mate™ (Amoco Oil Co., Chicago, IL)
Not for use in California
7. Kem-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)

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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.

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

Chemigation

Surflan 75WSP may be applied through properly equipped chemigation systems for weed control in fruit and nut orchards or vineyards. Read and follow all label instructions outlined below concerning chemigation before applying Surflan 75WSP by this method.

Chemigation Use Precautions: Make non-dormant chemigation applications of Surflan 75WSP only through solid set or hand move systems designed to distribute sprinkler irrigation beneath the tree canopy. Solid set systems utilizing tall risers for overhead application may be used only for dormant season chemigation applications. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for chemigation application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation Directions

The following directions must be followed for all recommended sprinkler irrigation systems (solid set and hand move systems):

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Surflan 75WSP should be injected continuously throughout chemigation water application period. The chemigation metering pump should be checked periodically during application to ensure proper operation.
9. The injection metering pump must be calibrated as specified by the manufacturer.
10. During chemigation, maintain agitation in supply tank at all times.
11. Surflan 75WSP may cause some staining of plastic hoses and tanks.
12. Apply Surflan 75WSP in 1/2 to 1 inch of sprinkler irrigation.

Chemigation System Calibration

The following is a sample calculation for use of Surflan 75WSP:

- Assume, in this example, 35 acres are to be covered by a chemigation treatment.
- Product required, assuming an application rate of 2 water soluble packets per acre is 70 packets of Surflan 75WSP

$$(35 \text{ acres} \times 2 \text{ packets/acre} = 70 \text{ packets})$$
- For chemigation application, prepare a mixture containing a minimum of 2 gallons of water per water soluble packet of Surflan 75WSP (see "Mixing Directions").

$$(70 \text{ packets} \times 2 \text{ gallons/packet} = 140 \text{ gallons})$$
- Adjust the injection system to deliver 140 gallons during the time required to apply 1 inch of water to 35 acres.
- If the irrigation system requires 5 hours to apply 1 inch of water to 35 acres, the injection rate is 28 gallons per hour and is calculated as follows:

$$140 \text{ gallons} \div 5 \text{ hours} = 28 \text{ gallons per hour (0.467 gallons/min or 60 fl oz/min)}$$
- Proper calibration requires the injection pump to be adjusted to deliver 60 fl. oz. per minute and is calculated as follows:

$$28 \text{ gallons/hr} \div 60 \text{ min/hr} = 0.467 \text{ gallons per min or 60 fl oz per min}$$

$$(0.467 \text{ gallons per min} \times 128 \text{ fl oz per gallon} = 60 \text{ fl oz per min})$$

Mixing Directions

Prepare a mixture (slurry) for use in the chemigation system by adding the required amount of Surflan 75WSP to 1/2 of the required volume of water (1 gallon of water per packet of Surflan 75WSP). Start agitation and while mixing add sufficient water to bring the total injection volume to a minimum of 2 gallons of water per packet of Surflan 75WSP. Meter the mixture into the irrigation system during the entire irrigation period. Maintain agitation within the supply tank throughout the irrigation period.

Note: Additional dilution of Surflan 75WSP may be necessary for accurate calibration of equipment not designed for low volume injection.

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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>
Barley, 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 (Narrowleaf panicum)	<i>Panicum maximum</i>
Johnsongrass (Seedling only)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Lovegrass, Mexican	<i>Eragrostis mexicana</i>
Lovegrass, orcutt	<i>Eragrostis orcuttiana</i>
Oat, wild	<i>Avena fatua</i>
Ryegrass, annual (Italian)	<i>Lolium multiflorum</i>
Sandbur, field	<i>Cenchrus incertus</i>
Sprangletop, red	<i>Leptochloa filiformis</i>
Texas panicum (Buffalograss) (Coloradograss)	<i>Panicum texanum</i>
Witchgrass	<i>Panicum capillare</i>

Annual Broadleaf Weeds

<u>Common Name</u>	<u>Scientific Name</u>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed	<i>Stellaria media</i>
Cudweed	<i>Gnaphalium chilense</i>
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	<i>Amaranthus</i> spp.
(Carelessweed)	
(Prostrate pigweed)	
(Redroot pigweed)	
(Rough pigweed)	
(Smooth pigweed)	
(Spiny pigweed)	
(Tumble pigweed)	
Puncturevine	<i>Tribulus terrestris</i>
Purslane, common	<i>Portulaca oleracea</i>
Rockpurslane, redmaids	<i>Calandrinia caulescens</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>

Surflan 75WSP provides partial control or suppression of:

<u>Common Name</u>	<u>Scientific Name</u>
Filaree, redstem	<i>Erodium cicutarium</i>
Filaree, whitestem	<i>Erodium moschatum</i>
Groundsel, common	<i>Senecio vulgaris</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lettuce, prickly	<i>Lactuca serriola</i>
Mallow, common	<i>Malva neglecta</i>
Milkweed, climbing	<i>Sarcostemma cynanchoides</i>
Morningglory, annual	<i>Ipomoea</i> spp.
Mustard, black	<i>Brassica nigra</i>
Mustard, wild	<i>Sinapis arvensis</i>
Nightshade, black	<i>Solanum nigrum</i>
Prickly sida (teaweed)	<i>Sida spinosa</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Ragweed, giant	<i>Ambrosia trifida</i>
Rocket, London	<i>Sisymbrium irio</i>
Smartweed, annual	<i>Polygonum</i> spp.
Sowthistle, annual	<i>Sonchus oleraceus</i>
Spurge, prostrate	<i>Euphorbia humistrata</i>
Spurge, spotted	<i>Euphorbia maculata</i>
Velvetleaf	<i>Abutilon theophrasti</i>

Approved Crops

Fruit and Nut Crops and Vineyards (Non-bearing 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
Coffee†	Olive	Prune
Fig	Orange	Walnut, English
Filbert	Papaya†	
Grape	Peach	

†For use in Hawaii only.

Small Fruits:

Blackberry	Currant	Gooseberry
Blueberry††	Dewberry	Loganberry
Boysenberry	Elderberry	Raspberry

††Do not apply Surflan 75WSP to lowbush blueberries.

Broadcast Application Rates per acre

Soil Texture	Length of Control	Surflan A.S.	
		Pounds/Acre	Packets/Acre
All Soil Textures	Short Term (2 - 4 months)	2.6	2
	Long Term (6 - 8 months)	5.2	4
	(8 - 12 months)	7.8	6

Chemigation Application of Surflan 75WSP

Apply Surflan 75WSP in 1/2 to 1 inch of sprinkler irrigation. Apply in at least 1 inch of sprinkler irrigation on medium to fine textured or high organic matter soils. Surflan 75WSP does not control established weeds. Surflan 75WSP must be applied prior to weed germination or immediately after existing weeds are controlled. Control existing unwanted vegetation with tillage or with a contact or translocated herbicide.

Cultivation

If weeds begin to emerge after application from below the zone of herbicidal activity, a shallow cultivation of 1 to 2 inches will destroy existing weeds and mix Surflan 75WSP into the zone of weed germination.

Chemigation Use Precautions

Overtop applications with sprinkler systems utilizing tall risers may be made only to dormant tree fruit and nut orchards or vineyards. Make chemigation applications to non-dormant tree fruit and nut orchards only through solid set or hand move sprinkler systems with risers and sprinkler heads designed to distribute water uniformly beneath the tree canopy.

Surflan 75WSP - Tank Mix Recommendations

The products listed below are compatible with Surflan 75WSP when used in tank mix combination. Performance and risk of carryover from products listed below when used in combination with Surflan 75WSP at recommended rates is the same as when each product is used separately.

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Follow tank mixing instructions provided in the "General Information" section of this label when mixing Surflan 75WSP with other products.

Users should always consult the manufacturers label of product(s) 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. **Note:** Some crop uses of tank mix products are limited to or excluded from certain states. Such limitations are specified in the label of the product to be tank mixed with Surflan 75WSP

Recommended Surflan 75WSP Tank Mix Combinations:

Surflan 75WSP plus Goal
Surflan 75WSP plus Goal plus Gramoxone Super*
Surflan 75WSP plus Gramoxone Super
Surflan 75WSP plus Princep (Simazine)
Surflan 75WSP plus Roundup
Surflan 75WSP plus Solicam

*Use of a nonionic surfactant such as Ortho X-77 or Triton AG-98 is recommended with this 3-way tank mix combination to 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. With agitation running, add either one (1) quart of X-77 or two (2) quarts of Triton AG-98 per 100 gallons of spray mixture. Add the recommended amount of Surflan and mix thoroughly. Continue filling the spray tank and add Goal. Then add Gramoxone Super. If a nonionic spreader is being used, add it to the tank last. Apply in at least 50 gallons of water per acre.

Surflan 75WSP - Tank Mix Reference Table:

The following table lists approved crops for Surflan 75WSP and products 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, two asterisks must be indicated for Surflan 75WSP and the product with which it is to be tank mixed.

	Surflan 75WSP	Goal	Gramo- xone Super	Princep (Simazine)	Roundup	Solicam
Almond	**	**	**	**	**	**
Apple	**	**	**	**	**	**
Apricot	**	**	**	-	**	**
Avocado	**	**	**	**	**	-
Cherry	**	**	**	**	**	-
Coffee†	**	**	**	**	**	**
Fig	**	**	**	-	**	-
Filbert	**	**	**	**	**	**
Grape	**	**	**	**	**	**
Grapefruit	**	-	**	**	**	**
Kiwi	**	**	**	-	**	-
Lemon	**	-	**	**	**	**
Macadamia nut	**	**	**	**	**	-
Nectarine	**	**	**	-	**	**
Olive	**	**	**	**	**	-
Orange	**	-	**	**	**	**
Papaya†	**	**	**	**	**	**
Peach	**	**	**	**	**	**
Pear	**	**	**	**	**	**
Pecan	**	**	**	**	**	**
Pistachio	**	**	**	-	**	-
Plum	**	**	**	**	**	**
Pomegranate	**	**	-	-	**	-
Prune	**	**	**	-	**	**
Walnut, English	**	**	**	-	**	**

Small Fruits:

Blackberry	**	-	**	**	**	**
Blueberry	**	-	**	**	**	**
Boysenberry	**	-	**	**	**	-
Currants	**	-	-	-	**	-
Dewberry	**	-	-	-	**	-
Elderberry	**	-	-	-	**	-
Gooseberry	**	-	-	-	**	-
Loganberry	**	-	-	**	**	-
Raspberry	**	-	**	**	**	**

†For use in Hawaii only.

Christmas Tree Plantations**Surflan 75WSP Alone**

Apply Surflan 75WSP as a directed spray to the soil surface or as an overtop spray to established plantings of field grown Christmas tree species, including fir (*Abies spp.*), pine (*Pinus spp.*), and spruce (*Picea spp.*). Do not apply to Douglas-fir (*Pseudotsuga menziesii*). Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rain/fall or irrigation. Follow all instructions provided in the "General Information" section of this label.

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Broadcast Application Rates

Length of Control	Surflan 75WSP
Short Term Control 2 to 4 months	2.6 lb/acre (2 water soluble packets/acre)
Long Term Control 4 to 8 months	5.2 lb/acre (4 water soluble packets/acre)

Tank-Mix Combinations

Tank-mix combinations of Surflan 75WSP plus other labeled herbicides may be used as directed or overtop sprays in established Christmas tree plantings. When applied according to use directions, these tank-mixes will provide control of susceptible weed species listed on the respective product labels. Refer to label of the product to be tank mixed with Surflan 75WSP for specific use directions, precautions and limitations before use.

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

Precautions:

Do not apply sprays containing Roundup over the top of Christmas tree plantings. Extreme care must be exercised to avoid contact of spray containing Roundup with foliage and stems of Christmas trees or severe damage or death may result.

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:

- (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 its

seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

Revised 2/4/92

Amendments:

1. Updated Precautionary Statements.
2. Clarified testing procedure for mixing with liquid fertilizers.
3. All general information moved to "General Information" section.
4. Revised tank mix instructions to reflect current approved uses for tank mix products recommended for use with Surflan 75WSP
5. Use on Christmas trees added to Surflan 75WSP ag label.
6. Approved supplemental labeling for Chemigation uses added to Surflan 75WSP label.
7. Use on coffee and papaya in Hawaii added.