

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

June 15, 2016

Rebecca A. Clemmer Regulatory Manager United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406

Subject: Notification per PRN 98-10 – Correct Rate Conversions

Product Name: Surflan Flex Herbicide EPA Registration Number: 70506-308 Application Date: March 31, 2016

Decision Number: 516127

Dear Ms. Clemmer:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Terri Stowe by phone at (703) 305-6117, or via email at stowe.terri@epa.gov.

Sincerely,

Kathryn V. Montague Product Manager 23 Herbicides Branch

Registration Division (7505P)

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Office of Pesticide Programs

70506-308

SURFLAN Flex Rev. 6/7/16

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

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06/15/2016

GROUP 3 HERBICIDE

SURFLAN® FLEX Herbicide

An optimized preemergence surface-applied herbicide for the control of many annual grasses and certain broadleaf weeds in crops, ornamentals, turf, Christmas tree plantations, non-cropland industrial sites, and established trees grown for pulp.

Active Ingredient:

oryzalin: 3,5-dinitro-/	√ ⁴ , <i>N</i> ⁴ -dipropylsulfanilamide	34.0%
Other Ingredients		66.0%
Total		100.0%

Contains 3.2 pounds of active ingredient per gallon. Patent Pending.

Keep Out of Reach of Children CAUTION

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Rocky Mountain Poison Control Center at 1-866-673-6671 for emergency medical treatment.

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

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

Shake Well Before Using.

EPA Reg. No. 70506-308 EPA Est. No.



United Phosphorus, Inc. 630 Freedom Business Center, Suite 402 King of Prussia, PA 19406 1-800-438-6071

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[ICON]

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Precautionary Statements

Hazards to Humans and Domestic Animals CAUTION

Avoid contact with skin or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Mixers and loaders must wear a chemical-resistant apron in addition to other PPE.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. 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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. **Exception:** If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Workers may enter treated areas without required PPE during the reentry interval following 1/2 to 1 inch of rainfall or irrigation, if they are performing tasks that do not involve contact with the soil subsurface; otherwise, PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for Agricultural Pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Entry Restrictions for Non-WPS Uses: Keep all persons, children and pets out of treated area until sprays have dried.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose of as waste.

Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

[for containers less than or equal to 5 gallons] Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

[for containers greater than 5 gallons] Triple rinse or pressure rinse as follows:

Triple rinse: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Turn the container over on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

<u>Pressure rinse</u>: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip.

[all sizes] Offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Use Information

SURFLAN FLEX herbicide is an optimized preemergence, surface applied herbicide for the control of many annual grasses and certain broadleaf weeds. SURFLAN FLEX controls susceptible annual weeds by disrupting plant growth processes during seed germination. SURFLAN FLEX may be applied in liquid sprays of water or liquid fertilizer, and may be tank mixed with other herbicides to control existing vegetation or improve the spectrum of weeds controlled. SURFLAN FLEX alone does not control established weeds.

Crop uses (bearing and non-bearing): citrus, pome fruits, stone fruits, nut trees, berries, vineyards. **Miscellaneous crop uses**: avocado, fig, guava, kiwi, olive, papaya, pomegranate.

Ornamental uses: ornamentals (trees, shrubs, groundcovers/perennials, flowers, nonbearing trees and vines), ornamental bulbs, turf grasses.

Other uses: Christmas tree plantations, established trees grown for pulp, non-cropland areas and industrial sites.

SURFLAN FLEX is orange in color and may cause temporary discoloration of sprayed surfaces. If this discoloration is undesirable, it may be altered by using a commercially available colorant such as Blazon or removed by spraying surface with water or washing with an industrial cleaner immediately after application. SURFLAN FLEX may also be applied with colorants, such as Mulch Magic or Nu-Mulch.

SURFLAN FLEX may be applied before or after transplanting of the crop. If applied prior to transplanting: (1) minimize disturbance of surface soil when transplanting to prevent loss of weed control; and (2) minimize exposure of the roots of transplants to treated soil to avoid any possibility of crop injury.

Use Precautions and Restrictions

- Do not graze or feed forage from treated areas to livestock.
- Poor weed control may result if directions are not carefully followed.
- Do not over-apply SURFLAN FLEX. Over-application may result in crop injury and in residues that exceed established tolerances, or in excessive soil residue that may injure rotational crops.
- Do not plant any root crop for 12 months following a SURFLAN FLEX application.
- Do not use SURFLAN FLEX on soils containing more than 5% organic matter.
- Apply SURFLAN FLEX directly to a debris and clod free soil surface in orchards or vineyards.
- For orchard crops, including citrus, pome fruits, stone fruits, and tree nuts, apply product only as a strip treatment in the tree rows; do not apply to row middles or drive rows.
- Do not aerially apply this product.
- Avoid spray drift to non-target areas when applying SURFLAN FLEX. Spray drift may result in reduced emergence of non-target plants adjacent to the treated area.

Rotation Crop Interval: To avoid crop injury, observe a 24 month rotational interval when rotating from tree and vine crops to row crops.

Weeds and Grasses Controlled

Annual Grasses

Common Name barley, little

barnyardgrass (watergrass)

bluegrass, annual (poa) brachiaria (signalgrass)

crabgrass

(large crabgrass)

(smooth crabgrass) crowfootgrass

cupgrass downy brome

foxtails

(bottlegrass) (bristlegrass) (giant foxtail) (green foxtail) (pigeongrass) (robust foxtail) (yellow foxtail)

guineagrass

(narrowleaf panicum) Goosegrass (silver crabgrass)

johnsongrass (seedling only)

junglerice

lovegrass, Mexican lovegrass, orcutt oat, wild

panicum, browntop panicum, fall

(spreading panicgrass)

panicum, Texas

(buffalograss) (Coloradograss)

ryegrass, annual (Italian) sandbur, field

sprangletop, red witchgrass

Annual Broadleaf Weeds Common Name

bittercress carpet weed

chickweed, common cudweed

fiddleneck, coast filaree, redstem filaree, whitestem Florida pusley

> (Florida purslane) (Mexican clover)

(pusley)

groundsel, common

henbit

knotweed, prostrate lambsquarters

Scientific Name

Hordeum pusillum Echinochloa crus-galli

Poa annua Brachiaria spp. Digitaria spp.

Dactyloctenium aegyptium

Eriochloa gracilis Bromus tectorum Setaria spp.

Panicum maximum

Eleusine indica Sorghum halepense Echinochloa colonum Eragrostis mexicana Eragrostis orcuttiana

Avena fatua

Panicum fasciculatum Panicum dichotomiflorum

Panicum texanum

Lolium multiflorum Cenchrus incertus Leptochloa filiformis Panicum capillare

Scientific Name

Cardamine oligosperma Mollugo verticillata Stellaria media Gnaphalium chilense Amsinckia intermedia Erodium cicutarium Erodium moschatum Richardia scabra

Senecio vulgaris Lamium amplexicaule Polygonum aviculare Chenopodium album

pigweeds Amaranthus spp.

(carelessweed)
(prostrate pigweed)
(redroot pigweed)
(rough pigweed)
(smooth pigweed)
(spiny pigweed)
(spring pigweed)
(tumble pigweed)

puncturevine Tribulus terrestris
purslane, common Portulaca oleracea
rocket, London Sisymbrium irio
rockpurslane, desert Calandrinia ciliata
rockpurslane, redmaids Calandrinia caulescens
shepherdspurse Capsella bursa-pastoris
spurge, prostrate Euphorbia humistrata

woodsorrel, yellow Oxalis stricta

SURFLAN FLEX provides partial control or suppression of:

Common NameScientific Namegroundsel, commonSenecio vulgarishorseweedConyza canadensisladysthumbPolygonum persicarialettuce, pricklyLactuca serriolamallow, commonMalva neglecta

milkweed, climbing Sarcostemma cynanchoides

morningglory, annual Ipomoea spp.
mustard, black Brassica nigra
mustard, wild Sinapis arvensis
nightshade, black Solanum nigrum
prickly sida (teaweed) Sida spinosa

ragweed, common Ambrosia artemisiifolia

ragweed, giant Ambrosia trifida
smartweed, annual Polygonum spp.
sowthistle, annual Sonchus oleraceus
spurge, spotted Euphorbia maculata

teaweed (prickly sida) Sida spinosa

velvetleaf Abutilon theophrasti

wheat, volunteer Triticum spp.

Soil Preparation

SURFLAN FLEX controls weeds growing from seed. SURFLAN FLEX does not control emerged or established weeds, weeds growing from stolens, rhizomes, or root pieces. Therefore, areas to be treated should be free of emerged weeds. Mix weed residues, prunings, and trash thoroughly into the soil or remove prior to treatment. In field applications, the soil should be in good tilth and free of clods at the time of application.

Activation and Cultivation

At least 1/2 to 1 inch rainfall or sprinkler irrigation is required to activate SURFLAN FLEX and move the herbicide into the zone of weed germination. Rainfall or irrigation of 1 inch or more is needed to activate SURFLAN FLEX 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 FLEX in the zone of weed germination.

Mixing Directions

SURFLAN FLEX – Used Alone:

SURFLAN FLEX may be applied in clean water or most liquid fertilizer materials. Prior to mixing SURFLAN FLEX 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 FLEX with solution and suspension-type fertilizers provides annual weed control equal to SURFLAN FLEX 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.

Mixing Order – Used Alone:

- Start with a clean spray tank.
- Fill the sprayer with clean water to 1/3 to 1/2 of the total spray volume desired.
- Start agitation.
- Shake the container well and add the correct amount of SURFLAN FLEX.
- Continue agitation and finished filling the spray tank with clean water to total spray volume.
- Maintain continuous agitation from mixing through application.

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

SURFLAN FLEX – Used in a Tank Mix:

To broaden the spectrum of weed control, SURFLAN FLEX may be applied in tank mix combinations with labeled rates of other products registered and applied with water or most liquid fertilizer materials, provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; (2) tank mixing is not prohibited by the label of the tank mix product; and (3) A (jar) test is performed to ensure the compatibility of products to be used in tank mixture.

Performance and risk of carryover from tank mixed products used in combination with SURFLAN FLEX at specified rates is the same as when each product is used separately.

Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.

Tank Mixing Precautions:

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- Do not exceed specified application rates.
- For products packaged in water soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment has been thoroughly cleaned.

Tank Mix Compatibility Testing: A jar test is recommended prior to tank mixing to ensure compatibility of SURFLAN FLEX and other products. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Mixing Order -Tank Mixing with Water:

- Fill the spray tank to 1/4 to 1/3 of the total spray volume.
- Start agitation.
- Add different formulation types in the following order, allowing time for complete mixing and dispersion after addition of each product (allow extra mixing and dispersion time for dry flowable products):
 - 1. Dry flowables;
 - 2. Wettable powders;
 - 3. SURFLAN FLEX (and other aqueous suspensions);
 - 4. Flowables and water-based solutions;
- Maintain agitation and fill spray tank to ¾ of total spray volume.
 - 5. Then add emulsifiable concentrates
- Finish filling the spray tank.
- 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 re-suspended before spraying is resumed. A sparger agitator
 is particularly useful for this purpose. Settled material may be more difficult to re-suspend than
 when originally mixed.

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

Tank Mixing with Liquid Fertilizer: Prior to mixing SURFLAN FLEX 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 tank mix compatibility with the liquid fertilizer product to be used. The combination of SURFLAN FLEX with solution and suspension-type fertilizers provides annual weed control equal to SURFLAN FLEX 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 tank. 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 - Tank Mixing With Liquid Fertilizer:

- Fill the spray tank to 3/4 of the total spray volume required.
- Start agitation.
- Add different formulation types in the following order, allowing time for complete mixing and dispersion after addition of each product. (Allow extra mixing and dispersion time for dry flowable products):
 - 1. Dry flowables;
 - Wettable powders;
 - 3. SURFLAN FLEX (and other aqueous suspensions);
 - 4. Flowables and water-based solutions:
 - 5. Emulsifiable concentrates
- Finish filling spray tank.
- 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 re-suspended before spraying is resumed. A sparger agitator

is particularly useful for this purpose. Settled materials may be more difficult to re-suspend than when originally mixed.

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

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). 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).

Equipment Cleaning:

If a buildup of material occurs on the walls of the spray tank, remove it between fillings by washing with soap and water and rinsing thoroughly. Clean tanks, lines, screens, and nozzles thoroughly after each use.

Testing for Compatibility in Liquid Fertilizers

SURFLAN FLEX 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. Always test small quantities of such mixtures 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.

Testing Procedure:

- 1. Add 1 pint of liquid fertilizer to 1-quart glass jar.
- Add 1 to 4 teaspoonfuls of DF, WP, SURFLAN FLEX, other AS formulations, 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 re-disperse when agitated, a compatibility agent is needed. If the mixture is easily re-dispersed 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, use the following procedure: 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 re-disperse the mixture. If layers form that 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 re-disperse with gentle agitation of the jar.

Compatibility Agents:

Use a phosphate ester-type surfactant designed for use with liquid fertilizers mixed at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer. This type of surfactant usually doesn't 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.

Crop Specific Use Directions

Crop Uses

Apply SURFLAN FLEX as a preemergence treatment to control annual grasses and broadleaf weeds listed in "Use Information" section.

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

SURFLAN FLEX may be applied to crops listed under the following crop groupings (both bearing and non-bearing):

Group	Crop
Berries	blackberry
	blueberry [†]
	boysenberry
	currant
	dewberry
	elderberry
	gooseberry
	loganberry
	raspberry
	[†] Do not apply SURFLAN FLEX to lowbush
	blueberries.
Citrus	citrus citron
	citrus hybrids
	grapefruit
	kumquat
	lime
	lemon
	mandarin (tangerine)
	orange
B	pummel
Pome Fruit	apple
	crabapple
	loquat
	mayhaw
	pear
Stone Fruit	quince apricot
Stone Fruit	cherry
	nectarine
	peach
	plum
	prune
Tree Nuts	almond
	chestnut
	chinquapin
	filbert
	hickory nut
	macadamia nut
	pecan
	pistachio
	walnut

Vineyards	Grapes (raisin, table, wine)
Miscellaneous	avocado
	fig
	guava
	kiwi fruit
	olive
	papaya
	pomegranate

Broadcast Application Rates

			Minimum Time Between	Total Amount Allowed Per
		SURFLAN	Applications	Year
Soil Texture	Length of Control	FLEX (qt/acre)	(months)	(qt/acre/)
All Soil Textures	2 - 4 months	2.0 - 2.50 qts/A	2.5 months	15 qts/A
	5 - 7 months	4.0 - 5.00 qts/A	2.5 months	15 qts/A
	8 - 10 months	6.0 - 7.75 qts/A	2.5 months	15 qts/A

Application Methods

Ground Broadcast Application:

Apply SURFLAN FLEX directly to the soil surface in a total spray volume of 20 to 40 gallons per acre (broadcast basis), using a 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 specified.

Band Application:

For band applications, use the following formula to calculate the required amount of product per acre.

Band Width (inches)				
	Χ	Broadcast rate per acre	=	Amount required per acre
Row Width (inches)		·		

Chemigation:

SURFLAN FLEX 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 FLEX by this method. Apply SURFLAN FLEX by chemigation prior to weed germination or immediately after existing weeds have been controlled. Control existing unwanted vegetation by tillage or with a contact or translocated herbicide. Use broadcast application rates specified for SURFLAN FLEX alone. Apply in sprinkler irrigation equal to 1/2 to 1 inch of water on medium to fine textured or high organic matter soils.

Chemigation Use Precautions: Apply this product 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 are excluded, except for dormant season applications of
SURFLAN FLEX.

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, contact state extension specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide 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):
 - 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 back-flow.
 - 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 that 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.
 - SURFLAN FLEX should be injected continuously throughout the chemigation period.
 Check the chemigation metering pump periodically during application to insure 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 FLEX may cause some staining of plastic hoses and tanks.
 - 12. Apply SURFLAN FLEX in sprinkler irrigation equal to 1/2 to 1 inch of water.
- Chemigation System Calibration: Sample calculation for use of SURFLAN FLEX in a chemigation system:
 - Assume, in this example, 35 acres are to be covered by a chemigation treatment.
 - Product required: assuming 4 quarts per acre is 140 quarts (35 gallons).
 - Prepare a mixture containing 1 part water and 1 part SURFLAN FLEX by adding 35 gallons of product to the supply tank containing an equal amount of water (total volume = 70 gallons).
 - Adjust the injection system to deliver 70 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 3.5 gallons per hour and is calculated as follows:

70 gallons/5 hours = 14 gallons/hour [14 gallons = 1,792 fluid ounces (fl oz)]

- Proper calibration requires the injection pump to be adjusted to deliver 29.9 fl oz per minute and is calculated as follows:

1,792 fl oz per hr/60 min per hr = 29.9 fl oz/min.

• Chemigation Mixing Directions: The injection mixture (slurry) with minimum volume may be prepared by adding the required amount of SURFLAN FLEX to an equal amount of water in the injection tank (ratio SURFLAN FLEX to water = 1:1). Meter the mixture into the irrigation system during the entire irrigation period. Additional dilution of SURFLAN FLEX may be necessary for accurate calibration of equipment designed to deliver a larger injection volume per hour. Maintain supply tank agitation throughout the irrigation period.

Undiluted SURFLAN FLEX should not be injected into chemigation systems.

- Low-Volume Micro Sprinklers Chemigation Instructions Output of low-volume sprinkler equals 4 to 50 gallons per hour (GPA) per emitter. Point of application MUST be above ground. Irrigation system should run a sufficient amount of time prior to SURFLAN FLEX injection to have all emitters functioning properly. After system is operating properly, length of injection should be such that at one period of time during the injection, the first and last emitters in the system contain SURFLAN FLEX treated water. Add SURFLAN FLEX to the supply tank already filled with the volume of water required for the injection period. Maintain proper agitation in SURFLAN FLEX injection tank. Mix SURFLAN FLEX in clean water and inject down-line from filters. Following SURFLAN FLEX injection, flush system for a period of time sufficient to clear the line of SURFLAN FLEX (If SURFLAN FLEX is applied during a normal irrigation cycle, make injection during the last stage.)
- Chemigation Calibration (for low-volume micro sprinklers)

Calculation of use rate is based on wetted area around emitters - **NOT** on tree acres. To determine correct amount of Surflan A.S., use the following formula:

1. Treated area per each emitter = A A = 3.14 x (radius x radius)

The area in square feet wet in each acre = B A x emitters/acre

B = 144

The total area (in square feet) wet by your system = C
 C = B x areas covered by system

4. Rate per treated acre of SURFLAN FLEX (based on length of control desired) = R

Example:

If the average distance from emitter to perimeter of wetted area measured 1 inch below soil surface is 13 inches, then

A = 3.14 x (13 inches x 13 inches) A = 530.7 square inches

If there are 300 emitters per acre, then 530.7 x 300 and B = 1105.6 square feet wetted per acre

If the system covers 20 acres, then
C = 1105.6 square feet per acre x 20 acres
C = 22,112 square feet wetted by system

If the desired application rate per treated acre is 2.0 qts of SURFLAN FLEX, then $S = 22,112 \times 2.0$ and S = 1.0 qt = amount of SURFLAN FLEX to inject into the system 43,560

Ornamental Plantings

SURFLAN FLEX is for use on certain landscape container- and field-grown established ornamental plants including:

- trees:
- shrubs;
- ground covers/perennials,
- flowers;
- non-bearing fruit and nut trees;
- non-bearing vineyards;
- production of ornamental bulbs (See "Ornamental Bulbs" section for special use directions).

Apply SURFLAN FLEX as a preemergence treatment to control annual grasses and broadleaf weeds listed in "Use Information" section.

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

Do not apply through any type of irrigation system for use on ornamentals.

Treatment of Plant Species Not Listed on the Label for SURFLAN FLEX:

Users who wish to use SURFLAN FLEX on plant species not listed on this label may determine the suitability for use by treating a small number of such plants at a labeled rate. Prior to treatment of larger areas, observe the treated plants for any sign of herbicidal injury during 30-60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. The user assumes responsibility for any plant damage or other liability resulting from use of SURFLAN FLEX on plant species not listed on this label.

Special Use Precautions:

Apply only to established plants that have been transplanted into their growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Rooted liners should be removed from their original growing containers and placed in new containers at least two weeks prior to treatment or injury may occur.

To avoid possible injury, do not apply SURFLAN FLEX to:

- Seedling beds, cutting beds, or transplant beds of nursery, forest or Christmas trees.
- Unrooted liners or cuttings that have been planted in pots for the first time.
- · Pots less than four inches wide.
- Ground covers until they are established and well rooted.
- Ornamental plantings where there is likelihood of runoff onto lawn areas.
- Areas containing dichondra or cool season turfgrass species.

On container grown ornamentals where weed seed germination continues for extended periods of time, do not make repeat applications of SURFLAN FLEX for at least 90 days or crop injury may occur.

Applications of SURFLAN FLEX over the top of plants with newly forming buds may cause injury. In this situation a directed spray is recommended.

For soils treated with SURFLAN FLEX during the previous season, plant only the ornamental species listed on this label or injury may occur.

Ice Plant: When establishing unrooted ice plant on coarse-textured soils in landscape plantings, do not exceed the 2 quart per acre rate of SURFLAN FLEX or crop injury may occur.

Note: Injury on the following plant species has been observed following applications of SURFLAN FLEX and use is not recommended:

Deutzia gracilis (slender deutzia)
Pseudotsuga menziesii (Douglas-fir)
Thuja occidentalis 'Techny' (Techny arborvitae)
Tsuga canadensis (eastern hemlock)
Begonia spp. (begonia)
Coleus hybridus (coleus)

Broadcast Application Rates

	Length of	SURFLA	N FLEX	Minimum Time Between Applications	Total Amount Allowed Per Year
Labeled Use	Control	(qt/acre)	(fl oz/1000 sq	(months)	(qt/acre)
Site			ft)		
Landscape	2 - 4 months	2.0 – 2.5 qts/A	1.5 – 1. <u>8</u> 90 fl	2 months	10 qts/A
Ornamentals			oz/1000 sq ft		
	3 - 6 months	3.0 – 3.75 qts/A	2.2 – 2.75 fl	4 months	11 qts/A
			oz/1000 sq ft		
	4 - 8 months	4.0 - 5.0 qts/A	3.0 - 3.75 ft	4 months	15 qts/A
			oz/1000 sq ft		
Field-grown and	2 - 4 months	2.0 – 2.5 qts/A	1.5 – 1. 9 <u>8</u> 0 fl	3 months	10 qts/A
container-grown			oz/1000 sq ft		
ornamentals	3 - 6 months	3.0 – 3.75 qts/A	2.2 – 2.75 fl	3 months	11 qts/A
			oz/1000 sq ft		
	4 - 8 months	4.0 – 5.0 qts/A	3.0 - 3.75 ft	3 months	15 qts/A
			oz/1000 sq ft		

Tank Mix Combinations

Tank mix combinations of SURFLAN FLEX plus glyphosate, and many other labeled herbicides may be used to control undesirable vegetation in ornamental areas. Refer to tank mix product labels for specific use directions, precautions, and limitations before use. Tank mix of SURFLAN FLEX plus glyphosate will provide postemergence control of susceptible weed species listed on the label for glyphosate and residual preemergence control of susceptible weed species listed on the label for SURFLAN FLEX. Refer to the label for glyphosate for specific use directions, precautions, and limitations before use.

Precautions: Do not apply sprays containing glyphosate over the top of ornamental plants. Extreme care must be exercised to prevent sprays containing glyphosate from coming in contact with foliage and stems of turfgrasses, trees, shrubs, or other desirable vegetation because severe damage or death may result. If spraying with glyphosate in areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage and stems of desirable plants.

Application Methods

Ground Application: Apply SURFLAN FLEX as a directed spray to the soil surface or over the top of plants. Use only a properly calibrated, low-pressure, herbicide sprayer that will apply the spray uniformly. Use screens no finer than 50 mesh in nozzles and in-line strainers. Apply the appropriate rate of SURFLAN FLEX, as outlined in "Broadcast Application Rates of the Ornamental Plantings" section of this label. In all cases, use sufficient water volume to obtain uniform coverage and deliver the desired rate of SURFLAN FLEX to the treated area. The volume of water used is not critical, as long as the desired rate of SURFLAN FLEX is delivered uniformly across the area treated. When calibrating, determine the

volume of water delivered by the sprayer to a given area (1,000 sq ft, 1 acre, etc.). Then mix the desired rate of SURFLAN FLEX in the amount of water required to cover the entire area to be treated. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Maintain continuous agitation from mixing through application. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application.

Hand Held or Backpack Sprayer Application: The amount of water used to apply SURFLAN FLEX herbicide is not critical, but should be sufficient for uniform coverage of the target area. Calibrate by determining the volume of water required to treat 1000 square feet. Use this calibration volume to determine the amount of water and SURFLAN FLEX herbicide needed to treat the target area (see the following calibration example). Note: Sprayer calibration (volume of spray needed to treat 1,000 square feet) will vary with each individual operator.

Steps in Calibration:

- 1. Mark an area of 1,000 square feet (i.e. 20 by 50 feet, or 25 by 40 feet).
- 2. Place the sprayer on a level surface and add water noting the final level of water in the spray tank.
- 3. Spray the marked area with a sufficient volume of water to provide uniform coverage. Refill the sprayer to the same level as before measuring the amount of water added. The measured water added to the sprayer is the volume needed to cover 1,000 square feet.
- 4. Determine the application rate (fl oz/1000 sq ft) for SURFLAN FLEX from the "Crop Specific Use Directions" section of this label.
- 5. To each volume of water used, as measured in step 3, add the amount of SURFLAN FLEX as determined in step 4.

Example: If the sprayer used 2 gallons of water to cover 1,000 square feet and the desired application rate of SURFLAN FLEX is 3 fluid oz/1,000 square feet, then you would add 3 fluid ounces of SURFLAN FLEX to every 2 gallons of water to be used.

Plant Species

Trees

SURFLAN FLEX may be used on the following established plant species (note limitations on culture methods):

Culture Methods

		= Field Grown = Container Grown
Scientific Name	Common Name	
Abies balsamea	Fir, balsam	F
Abies concolor	Fir, white	F
Abies fraseri	Fir, fraser	F
Abies grandis	Fir, grand	F
Abies veitchi	Fir, Vietch	F
Abies lasiocarpa	Fir, alpine	F
Abutilon hybridum	Albus-flowering maple	F
	Luteus-flowering maple	F
	Roseus-flowering maple	F
	Tangerine-flowering maple	
	Vesuvius red-flowering ma	
Acer gimmala	Flame maple	F
Acer rubrum	Red sunset maple	F
Acer saccharinum	Silver maple	F
Acer spp.	Maple	F
Alsophila australis	Australian tree fern	C,F
Areacastrum romanzoffianum	Queen palm	F
Betula nigra	Birch, river	F

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Scientific Name	Common Name	_
Betula papyrifera	Paper birch	F
Betula pendula	Birch, white	F
Bucida buceras	Black olive	F
Carya spp.	Pecan, ornamental	C,F
Cedrus, atlantica	Atlas cedar	C,F
Cedrus deodara	Deodar cedar	C,F
Ceratonia siliqua	Carob	F
Cercidium floridum	Palo Verde, blue	F
Cercis canadensis	Redbud	C,F
Chamaecyparis lawsoniana	Falsecypress, Lawson	F
Chamaecyparis obtusa	Filicoides-fernspray cypress	F
Chamaecypans oblusa		F
Chamana ay maria miniform	Gracilis-slender Hinoki cypress	
Chamaecyparis pisifera	Sawara-false cypress	F
	Squarrosa-moss cypress	F
Chamaedorea cataractarum	Cat Palm	F
Chamaedorea costaricana	Palm	F
Chamaedorea elegans	Parlor palm	F
Citrus spp.	Citrus, ornamental	C,F
Cornus florida	Dogwood, flowering	F
Cryptomeria japonica	Cryptomeria, Japanese	C,F
Cupaniopsis anacardioides	Carrot wood	F
Cupressus arizonica (glabra)	Cypress, Arizona	C,F
Cupressus glabra	Arizona cypress	C,F
Cupressocyparis leylandii	Leyland cypress	C,F
		C,F
Cupressus sempervirens	Cypress, Italian	
Dicksonia antarctica	Tasmanian tree fern	C,F
Elaeagnus angustifolia	Russian olive	C,F
Eucalyptus camaldulensis	Red gum eucalyptus	F
Eucalyptus cinerea	Eucalyptus, mealy	F
	Silver dollar eucalyptus	F
Eucalyptus nicholii	Eucalyptus, narrow-leaved	F
Eucalyptus sideroxylon	Eucalyptus, red ironbark	F
Ficus benjamina	Ficus	F
Fraxinus spp.	Ash	F
Ginkgo biloba	Ginkgo (Maidenhair tree)	C,F
Gleditsia triacanthos	Honey locust	F
Heteromeles arbutiflora	Toyon	F
Juniperus virginiana	Redcedar, Eastern	F
Koelreuteria paniculata	Goldenrain tree	F
Liquidambar styraciflua		C,F
Magnolia spp.	Sweetgum, American Magnolia	F,F
	•	г F
Malus spp.	Crabapple	
Morus alba	White mulberry	F
Picea abies	Pendula-weeping Norway spruce	F
	Repens-spreading Norway	F
	spruce	_
	Spruce, Norway	F
Picea englemanni	Spruce, Englemann	F
Picea glauca	Spruce, white	F
	Conica-dwarf Alberta spruce	F
Picea glauca conica	Dwarf Alberta spruce	F
Picea mariana	Spruce, black	F
Picea pungens	Glauca-Colorado blue spruce	F
	Hoopsii-Hoop's blue spruce	F
	Koster-Koster blue spruce	F
	Spruce, Colorado	C,F
Pinus aristata	Bristlecone pine	С,г F
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Scientific Name	Common Name	
Pinus canariensis	Canary Island pine	F
Pinus contorta	Shore pine, beach pine	F
Pinus eldarica	Eldarica pine	F
Pinus halepensis	Aleppo pine	C,F
Pinus radiata	Monterey pine	F
Pinus spp.	Pine	C,F
Pinus strobus	Eastern white pine	F
Pinus sylvestris	Scotch pine	F
Pinus thunbergiana	Japanese black pine	F
Platanus occidentalis	American sycamore	F
Platanus racemosa	Califorina sycamore	F
Podocarpus spp.	Podocarpus	F
Populus deltoides	Cottonwood	F
•	Cottonwood (grown for pulp)	F
Prunus caroliniana	Laurelcherry, Carolina	F
Prunus glandulosa	Dwarf flowering almond	C,F
Prunus laurocerasus	Laurelcherry, English	F
Prunus mahaleb	Cherry, Mahaleb	F
Prunus yedoensis	Yoshino flowering cherry	F
Pyrus communis	Pear	F
Quercus palustris	Pin oak	F
Quercus phellos	Willow oak	F
Quercus rubra	Red oak	C,F
Quercus spp.	Oak	C,F
Salix babylonica	Babylon weeping willow	F
	Corkscrew willow	F
Schinus molle	California pepper tree	F
Sequoia sempervirens	Redwood, coast	F
Sequoiadendron giganteum	Giant sequoia	F
Swietenia mahogani	Mahogany	F
Tabebuia caraiba	Yellow tab	F
Tilia cordata	Linden, little leaf	C,F
Ulmus parvifolia	Chinese elm	F
Umbellularia californica	California laurel	F
Washingtonia robusta	Mexican fan palm	F

Shrubs Culture Methods F = Field Grown C = Container Grown

Scientific Name	Common Name	
Abelia grandiflora	Glossy abelia	F
Acacia redolens	Acacia, prostrate	F
Agave americana	Century plant	F
Agave macroculmis	Agave	F
Anisodontea hypomandarum	Cape mallow	C,F
Arctostaphylos stanfordiana	Manzanita, Stanford	F
Astilbe chinensis	Astilbe/false spirea	C,F
Baccharis pilularis	Coyotebush	F
Berberis thunbergii	Aurea-golden Japanese barberry	C,F
	Crimson pygmy barberry	C,F
	Atropurea-redleaf Japanese barberry	C,F
	Barberry, Japanese	C,F
Bougainvillea spp.	Barbara Karst	F
	California gold	F
	Scarlet O'Hara	F
	Texas dawn	F

Scientific Name Buddleia davidii Buxus microphylla japonica Buxus sempervirens Boxwood, Japanese Buxus sempervirens Boxwood, Japanese Buxus sempervirens Boxwood, Japanese Boxwood, Japanese Boxwood, Japanese C, F Callistemon citrirus Cassia artemisioides Cassia, feathery Ceanothus americanus Jerseytea, redroot C, F Canorthus americanus Jerseytea, redroot C, F Chamaecyparis obtusa Vidi lilac C, F Chamaecyparis pisifera Colevaria pisifera Colevaria pisifera Colevaria pisifera Colevaria pisifera Colevaria pisifera Colevaria pi			
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	Hibiecus syriacus		
Rose of Sharon, Red Heart	า แมเจบนจ จงูกเสบนจ		
		Nose of Sharon, Neu Healt	Γ.

Scientific Name	Common Name	
	Rose of Sharon, Woodbridge	F
	Rose-of-Sharon (Shrubalthea)	F
Hydrangea macrophylla	Hydrangea, French	C, F
Hydrangea quercifolia	Hydrangea, Oakleaf	C, F
llex aquifolium	Balkans holly	F
•	Gold coast holly	F
	Holly, English	F
llex aquipernyi	San Jose holly	C,F
llex cornuta	Dwarf Burford holly	C,F
	Holly, Chinese	C,F
llex crenata	Compacta-dwarf Japanese holly	C,F
	Convexa holly	C,F
	Helleri-Heller's Japanese holly	C,F
	Holly, Japanese	C,F
llex glabra	Nordica-inkberry holly	F
llex meserveae	Blue boy holly	F
	Blue girl holly	F
	Ebony magic holly	F
llex vomitoria	Nana-dwarf yaupon holly	C,F
	Pendula-weeping yaupon holly	C,F
	yaupon holly	C,F
Juniperus chinensis	Media-old gold juniper	C,F
Juniperus conferta	Emerald sea shore juniper	F
Juniperus horizontalis	Huntington blue juniper	C,F
	Wiltonii-blue carpet juniper	C,F
Juniperus procumbens	Nana-dwarf Japanese garden juniper	C,F
Juniperus prostrata	Prostrata juniper	C,F
Juniperus sabina	Broadmoor juniper	F
	Foemina-Hicks juniper	F
	Tamariscifolia-Tam juniper	F
Juniperus scopulorum	Emerald green juniper	F
Juniperus spp.	Juniper	C,F
Juniperus squamata	Blue juniper	F
	Blue star juniper	F
	Parsonii juniper	F
Justicia brandegeana	Shrimp plant	C,F
Justicia spicigera	Honeysuckle, Mexican	F
Kalmia latifolia	Laurel, mountain	F
Lagerstroemia indica	Crape myrtle	C,F
Lavandula angustifolia	English lavender	C,F
Leucothoe axillaris	Leucothoe, coast	F
Leucothoe fontanesiana	Leucothoe, drooping	F
Ligustrum amurense	Privet, amur	C,F
Ligustrum japonicum	Privet, Japanese	C,F
	yellow tip ligustrum	C,F
Ligustrum lucidum	Privet, glossy	C,F
Ligustrum ovalifolium	California privet	F
Ligustrum texanum	Howardi privet	F
	Wax leaf privet	F
Ligustrum vicaryi	Privet, golden	C,F
	Vicary golden privet	C,F
Livistona chinensis	Chinese fountain palm	F
Lonicera fragrantissima	Winter honeysuckle	F
Lonicera periclymenum	Flowering woodbine	F
I a standard and a standard at	Serotina woodbine	F
Lonicera sempervirens	Trumpet honeysuckle	F
Lorpetalum chinense	(No common name)	C,F

Scientific Name	Common Name	_
Mahonia aquifolium	Oregon grape	F
Myoporum parvifolium	Myoporum, prostrate	F
Myrtus communis	Myrtle, true	C,F
Nandina domestica	Compacta-dwarf heavenly bamboo	C,F
	Harbour dwarf-heavenly bamboo	C,F
	Heavenly bamboo (Nandina)	C,F
	Nana compacta-heavenly bamboo	C,F
	Nana purpurea-heavenly bamboo	C,F
Made and a series	Woods dwarf-heavenly bamboo	C,F
Nerium oleander	Hardy red oleander	C,F
	Oleander	C,F
Operations between bulling	Ruby lace oleander	C,F F
Osmanthus heterophyllus	Osmanthus, holly-leaf	
Pachysandra terminalis	Japanese spurge	C,F
Philadelphus spp. Phoenix roebelenii	Mockorange	C,F F
Photinia fraseri	Pigmy date palm	г С,F
Priotinia traseri	Fraser's photinia Photinia	
Dioris ianonica	Lily-of-the-valley	C,F F
Pieris japonica	Snowdrift lily-of-the-valley	F
	Temple bells lily-of-the-valley	F
	Valley rose lily-of-the-valley	F
	Andromeda	C,F
Pittosporum spp.	Pittosporum	C,F
Pittosporum tobira	Green pittosporum	F.
Tittooporani toona	Japanese pittosporum	F
	Tobira	F
	Wheeler's dwarf pittosporum	F
Platycladus orientalis	Arborvitae, Oriental	C,F
Plumbago ariculata	Blue cape plumbago	F
Podocarpus macrophyllus	Yewpine	C,F
Potentilla fragiformis	Cinquefoil	F
Potentilla fruticosa	Cinquefoil	C,F
Protea neriifolia	Protea	F
Pyracantha coccinea	Firethorn, scarlet	C,F
Pyracantha fortuneana	Lolendei Monrovia pyracantha	C,F
Pyracantha fortuneana	Monon pyracantha	C,F
	Red elf hybrid pyrcantha	C,F
	Rutgers hybrid pyracantha	C,F
	Santa Cruz pyracantha	C,F
	Victory pyracantha	C,F
Pyracantha skoidzumi	Firethorn, formosa	C,F
Pyracantha, fortuneana	Firethorn	C,F
Rhaphiolepis indica	Enchantress-Moness rhaphiolepis	F
	Rhaphiolepsis (India hawthorn)	C,F
Districts of a section	Springtime-Monme rhaphiolepis	F
Rhaphiolepis ovata	Roundleaf rhaphiolepis	F
Rhipsalidopsis gaertneri	Eastercactus	C,F
Rhododendron calendulaceum	Flame azalea	F F
Rhododendron	Butterfly rhododendron	г
campylocarpum Rhododendron carolinianum x	PJM rhododendron	F
daurium	i divi ilibuduellululi	1
Rhododendron catawbiense	Catawba album rhododendron	C,F
	Catawba rhododendron	C,F
	Lord Roberts rhododendron	C,F
	Rocket rhododendron	C,F
		-,.

Scientific Name	Common Name	
Rhododendron forrestii x	Elizabeth rhododendron	F
griersonianum	Elizabeth Mededenaren	•
Rhododendron hybrid spp.	America rhododendron	F
	English Roseum rhododendron	F
	Nova Zembla rhododendron	F
	Scintillation rhododendron	F
Rhododendron impeditum	Rhododendron	F
Rhododendron indica	Formosa azalea	C,F
Rhododendron kerume	Waucabusa azalea	C,F
Rnododendron kerurne	Coral bells azalea Hino crimson azalea	C,F C,F
	Hino pink azalea	C,F
	Snow azalea	C,F
Rhododendron maximum	Rhodie max (rosebay)	C,F
Rhododendron mucronulatum	Rhododendron	F
Rhododendron satuski	Gumpo pink azalea	F
	Higasa azalea	F
Rhododendron spp.	Azalea	C,F
	Rhododendron	C,F
Rhododendron spp. hybrids	Carror azalea	C,F
	Girard Roberta azalea	F
Rhus lancea	Golden flare exbury azalea	F C,F
Rosa rugosa	Sumac, African Ramanas rose	С,г F
Rosmarinus officinalis	Rosemary	F
Senecio cineraria	Dusty miller	C,F
Spiraea vanhouttei	Bridal wreath	F.
Syringa vulgaris	Lilac, common	C,F
Syzygium paniculata	Brush cherry	C,F
Taxus cuspidata	Yew, Japanese	F
Taxus media	Yew	F
Thuja occidentalis	Arborvitae, American	C,F
	Emerald arborvitae	F
	Globosa-globe arborvitae	F
	Little giant-dwarf arborvitae Nigra-dark American arborvitae	F F
	Pyramidalis arborvitae	F
	Rheingold arborvitae	F
	Woodwardii arborvitae	F
Thuja orientalis	Aureus nana-dwarf golden arborvitae	F
•	Minima glauca-dwarf arborvitae	F
Thuja plicata	Red Cedar, Western	F
Trachelospermum jasminoides	Star jasmine, Chinese	F
Veitchia merrilli	Christmas palm	F
Viburnum davidii	Koreanspice viburnum	C,F
Viburnum davidii Viburnum japonicum	David viburnum Viburnum	F F
Viburnum judd (V X Judii)	Viburnum	C,F
Viburnum opulus sterile	Common snowball viburnum	F.
Viburnum plicatum	Doublefile viburnum	F
tomentosum		
Viburnum setigerum	Tea viburnum	F
Virbunum suspensum	Virbumum, Sandankwa	F
Viburnum tinus	Viburnum, Laurustinus	C,F
	Compactum-spring bouquet	F
Viburnum tinus somnastum	viburnum	F
Viburnum tinus compactum	Spring bouquet viburnum	۲

Scientific Name	Common Name	
Viburnum trilobum compactum	Dwarf cranberry bush	F
Viburnum x pragense	Viburnum	F
Weigela florida	Bristol ruby weigela	F
	Java red weigela	F
	Minuet weigela	F
	Weigela, oldfashioned	F
Xylosma congestum	Xylosma	F
Yucca elata	Yucca, soaptree	C,F
Yucca recurvifolia	Yucca, pendulous	F

Groundcovers/Perennials

Culture Methods F = Field Grown C = Container Grown

	C =	: Container G
Scientific Name	Common Name	
Agapanthus africanus	Lily-of-the-Nile	C,F
<i>Ajuga</i> spp.	Carpet bugle	F
Arctotheca calendula	Cape weed	F
Asparagus retrofractus	(No common name)	C,F
Asparagus varieegata	Tree fern	C,F
Aster novae-angliae	New England aster	C,F
Aster novi-belgii	New York aster	C,F
Athyrium nipponimcum	Japanese painter fern	C,F
Brassica oleracea	Wild cabbage	C,F
Callistepheus chinensis	China aster	C,F
Campanula elatines	Bellflower	C,F
Carpobrotus edulis	Ice plant, largeleaf (see label)	F
Clytostoma callistegioides	Trumpet vine, violet	C,F
Cortaderia selloana	Pampas grass	F
Cuphea hyssopifolia	False Mexican heather	C,F
Delosperma alba	White iceplant	F
Dietes vegeta	Fortnight lily	C,F
Digitalis mertonensis	Foxglove	C,F
Doronicum cordatum	Leopard's bane	C,F
Drosanthemum floribundum	Trailing rosea iceplant	F
Erianthus ravennae	Hardy pampus grass	C.F
Festuca ovina glauca	Blue fescue	F
Gaillardia grandiflora	Blanket flower	C,F
Gazania rigens leucolaena	Gazania, trailing	C,F
Gazania spp.	Gazania	F
Hedera canariensis	Ivy, Algerian	F
Hedera helix	lvy, English	F
Heliotropium fragrans	Common heliotrope	C,F
Hemerocallis spp.	Daylily	C,F
Hosta lancifoila	Albo-marginata hosta	C,F
Hosta spp.	Lily, plantain	C,F
Heuchera micrantha	Coral bells	C,F
Hypericum spp.	St. Johnswort	C,F
Iberis sempervirens	Evergreen candytuft	C,F
Lampranthus spectabilis	Trailing iceplant	F
Leptospermum scaparium	New Zealand teatree/Manuka	,
Limonium perezii	Statice/Sea lavender	C,F
Liriope gigantea	White lily turf	F
Liriope muscari	Lilac beauty lily turf	C,F
	Majestic lily turf	C,F
	Monroe white lily turf	C,F
	Silvery sunproof lily turf	C,F

Scientific Name	Common Name Variegated liriope lily turf Big blue lily turf	C,F C,F
Lobelia erinus	Edging lobelia	C,F
Lonicera japonica	Honeysuckle, Japanese	F
Mesembryanthemum crystallinum	Ice plant (see label)	F
Monarda didyma	Bee Balm	C,F
Ophiopogon japonicus	Mondo grass	F
Osteospermum fruticosum	Daisy, trailing African	F
Pachysandra terminalis	Japanese spurge	F
Pennisetum setaceum	Fountaingrass	C,F
Polystichum polyblepharum	Tassel fern	C,F
Sedum brevifolium	Stonecrop	C,F
Sedum kamtschaticum	Stonecrop	C,F
Sedum spurium	Stonecrop, tworow	C,F
Tulbaghia vioilacea	Society garlic	C,F
Verbena rigida	Veined verbena	C,F
Veronica spp.	Speedwell	C,F
Vinca major	Periwinkle, bigleaf	F
Vinca minor	Periwinkle, dwarf	F

Flowers

Culture Methods F = Field Grown C = Container Grown

	C = Co	ntainer Grow
Scientific Name	Common Name	
Achillea spp.	Yarrow	C,F
Antirrhinum majus	Snapdragon	F
Caladium bicolor	Caldaium, fancy leafed	F
Chrysanthemum spp.	Chrysanthemum	C,F
Mixed hybrid	Dahlia	C,F
Cladium bicolor	Fancy-leaved caladium	F
Coreopsis lanceolata	Coreopsis	F
Coreopsis verticulata	Threadleaf coreopsis	C,F
Dianthus barbatus	Sweet William	F
Dianthus gratianopolitanus	Cheddar pink	C,F
Dicentra spectabilis	Bleeding heart	C,F
Dimorphotheca spp.	Marigold, cape	F
Echinacea purpurea	Coneflower, purple	C,F
Evolvulus nuttallianus	Blue daze	C,F
Geum quellyon	Geum	F
Gladiolus hortulanus	Gladiolus	F
Gypsophila paniculata	Baby's breath	F
Impatiens wallerana	Impatiens (Busy lizzie)	F
<i>Iris</i> spp.	Iris, bearded	F
Liatris spicata	Blazing star	C,F
Pelargonium hortorum	Geranium	F
Petunia spp.	Petunia	C,F
Portulaca grandiflora	Moss, rose	F
Ranunculus asiaticus	Ranunculus, Persian	F
Rosa spp.	Rose	F
Rudbeckia fulgida	Blackeyed susan	C,F
Rudbeckia hirta	Daisy, gloriosa (black-eyed Susan)	F
Salvia spp.	Salvia (Sage)	F
Stokesia laevis	Aster, stokes	F
Strelitzia reginae	Bird of paradise	F
Tagetes spp.	Marigold	F
Viola wittrockiana	Pansy	F
Zinnea elegans	Zinnia, common	F
•		

Non-bearing Trees and Vines

Culture Methods
F = Field Grown,
C = Container Grown

almond	F	kiwi	F
apple	F	Kumquat	C,F
apricot	F	lemon	F
avocado	F	loganberry	F
blackberry	F	macadamia nut	F
blueberry	F	nectarine	F
boysenberry	F	olive	F
cherry, sour	F	orange	C,F
cherry, sweet	F	peach	F
currant	F	pear	F
dewberry	F	pecan	C,F
elderberry	F	pistachio	F
fig	F	plum	F
filbert	F	pomegranate	F
gooseberry	F	prune	F
grape, American	F	raspberry	F
grape, European	F	walnut, black	F
grapefruit	F	walnut, English	F

[†] Non-bearing plants are defined as those that will not bear fruit for at least one year after treatment.

Shade house Areas

SURFLAN FLEX may be applied to drainage areas under benches in open shade house-type structures where the natural flow of air is unimpeded. Do not apply in enclosed greenhouses or in enclosed shade house-type structures. Do not apply within 3 weeks prior to enclosure of greenhouse or poly-type structures.

Ornamental Bulbs

SURFLAN FLEX may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous iris, daffodil (narcissus), hyacinth, and tulip. Apply SURFLAN FLEX to the soil surface 2-4 weeks after planting, but prior to the emergence of annual weeds. For fall planted bulbs, apply SURFLAN FLEX again in late winter or early spring to weed-free soil surfaces.

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

Broadcast Application Rates

Time of		SURFLAN FLEX		Minimum Time Between Applications	Total Amount Allowed Per Year
Application	Soil Texture	(qt/acre)	(fl oz/1000 sq ft)	(months)	(qt/acre)
Fall	Coarse	0.75-0.94 qts/A	0.5 – 0.7 fl oz/1000 sq ft	3	1.90 qts/A
Fall	Medium and Fine	1.50 – 1.90 qts/A	1. 0 1 – 1.4 fl oz/1000 sq ft	3	2.80 qts/A
Feb March	All Soil Textures	0.75 – 0.94 qts/A	0.5 – 0.7 ft oz/1000 sq ft	3	2.80 qts/A

Special Use Precautions:

- Do not apply to tulip plants that have emerged to a height greater than 3/4 inch.
- Do not apply to gladioli corms prior to emergence or less than one (1) inch in diameter.

Warm Season Turfgrasses

SURFLAN FLEX may be applied as a preemergence treatment for control of annual grasses and certain broadleaf weeds in established warm season turf including bahiagrass, Bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, zoysiagrass, and established tall fescue growing in warm season areas. Established turf is defined as a dense turf having a well-anchored root system and healthy, vigorous top growth. Use SURFLAN FLEX only as a part of a total turf management program that includes good fertilization practices.

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of SURFLAN FLEX

SURFLAN FLEX will not control emerged weeds. Successful preemergence control of weeds listed on this label requires that SURFLAN FLEX be applied prior to weed germination and be activated by at least one-half (1/2) inch of rainfall or irrigation within 21 days of application.

SURFLAN FLEX may injure turf that is not well established or is stressed or weakened due to unfavorable winter climatic conditions, drought, nematodes, or other factors which damage or weaken turf root systems. Apply SURFLAN FLEX only to healthy, well-established turf that has a well-anchored root system.

Broadcast Application Rates (Warm Season Turfgrasses)

	SURFLAN FLEX		Minimum Time Between Applications	Total Amount Allowed Per Year
Use Area	(qt/acre)	(fl oz/1000 sq ft)	(months)	(qt/acre)
All, except Florida	1.50 – 2.50 qts/A	1. <u>10</u> – 1. <u>98</u> fl oz/1000 sq ft	3	7.5 qts/A
Florida	1.50 – 1.90 qts/A	1. 0 1 – 1.4 fl oz/1000 sq ft	3	5.6 qts/A

Special Use Precautions:

To avoid possible injury, do not apply SURFLAN FLEX to:

- Cool season turfgrass species.
- Golf course putting greens and tees or lawns containing dichondra or cool season turfgrass species.
- Newly sprigged or sodded areas of Bermudagrass, St. Augustinegrass, centipedegrass, or zoysiagrass until these turfgrasses are well established and have well-anchored root systems.
- Newly hydro mulched areas of Bermudagrass until such areas are well established.
- Bermudagrass variety "Sun Turf" when tank mixed with atrazine

Application Timing and Frequency

SURFLAN FLEX can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for annual bluegrass (*Poa annua*) and winter annual broadleaf weed control.

Do not apply SURFLAN FLEX in the spring or early summer to tall fescue turfgrass reseeded the previous fall. In such cases, apply Balan* 2.5G granular herbicide at 60-80 pounds per acre in early summer (Round 1) and SURFLAN FLEX at 1.50 – 1.90 quarts per acre approximately eight weeks later (Round 2).

Applications to established tall fescue: apply 1.50 - 1.90 quarts per acre of SURFLAN FLEX in an initial application, followed by a second application of 1.50 - 1.90 quarts per acre 8-10 weeks later.

In Bermudagrass areas that have been overseeded with winter grasses, a spring application of SURFLAN FLEX will thin the overseeded grasses.

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 2.00 – 2.25 quarts per acre of SURFLAN FLEX in late winter or early spring, prior to the onset of conditions favorable for annual weed germination.

Split Application Program: As an alternative to a single application program, SURFLAN FLEX may be applied in a split application. This program is desirable when the initial application is made well in advance of weed germination and where weed control is desired for a longer period of time. Apply 1.50 – 1.90 quarts per acre of SURFLAN FLEX in an initial application, followed by a second application of 1.50 – 1.90 quarts per acre 8-10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial application of SURFLAN FLEX.

2. Annual Bluegrass (Poa annua) and Winter Annual Broadleaf Weeds

In areas of heavy annual bluegrass infestation, its elimination will result in temporary thinning of turfgrass cover. Use proper fertilization, irrigation, and soil incorporated reseeding to speed the restoration of desirable turfgrass cover in areas previously occupied by annual bluegrass (see section on reseeding).

Apply SURFLAN FLEX as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply SURFLAN FLEX at 1.50 – 1.90 quarts per acre. If thinning of turfgrass cover is not a potential problem, SURFLAN FLEX may be applied at 2.00 – 2.25 quarts per acre.

Weed Control in Florida

In Florida, apply 1.50 - 1.90 quarts per acre of SURFLAN FLEX three times per year, or every 90-100 days, in the fall, early spring, and early summer. Do not apply more than 1.50 - 1.90 quarts per acre of SURFLAN FLEX in any single application.

Application Equipment

Apply SURFLAN FLEX evenly over the turfgrass area. Avoid spray pattern skips and overlaps that may result in incomplete coverage or over-application. For best results, use application equipment designed to uniformly broadcast liquid herbicides. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing spray uniformly.

Reseeding

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Delay reseeding for at least 90-120 days following application of SURFLAN FLEX. When reseeding, it is essential that proper cultural practices such as soil cultivation and seedbed preparation, irrigation, and fertilization be followed. For satisfactory reseeding results following use of SURFLAN FLEX, increase the seeding rate and use equipment designed to place seed in full contact with soil (such as the Rogers Aero Seeder).

Weeds Controlled (Suppressed) Warm Season Turfgrass

Annual Grasses Controlled

Summer Annuals:

Common Name Scientific Name barnyardgrass Echinochloa crus-galli (watergrass)

crabgrass, large Digitaria sanguinalis crabgrass, smooth Digitaria ischaemum

crabgrass Digitaria spp.

crowfootgrass Dactyloctenium aegyptium

foxtail, bristlegrass Setaria magna foxtail, giant Setaria faberi foxtail, green Setaria viridis

(pigeongrass)

foxtail, robust Setaria robusta foxtail, yellow Setaria glauca goosegrass Eleusine indica

(silver crabgrass)

Johnsongrass Sorghum halepense

(seedling only)

ryegrass, Italian Lolium multiflorum sandbur, field Cenchrus incertus

Winter Annuals:

Common NameScientific Namebluegrass, annualPoa annua

Annual Broadleaf Weeds Controlled

Summer Annuals:

Common NameScientific NamecarpetweedMollugo verticillataknotweed, prostratePolygonum avicularepurslane, commonPortulaca oleracea

Winter Annuals:

Common Name Scientific Name chickweed, common Stellaria media

henbit Lamium amplexicaule

Broadleaf Weeds Suppressed

Common NameScientific Namegroundsel, commonSenecio vulgarisspurge, prostrateEuphorbia humistrata

woodsorrel, yellow Oxalis stricta

Christmas Tree Plantations

SURFLAN FLEX - Used Alone

Apply SURFLAN FLEX 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.).

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

Broadcast Application Rates

-				
			Minimum	
			Time	Total Amount
			Between	Allowed Per
Length of	SURF	LAN FLEX	Applications	Year
Control	(qt/acre)	(fl oz/1000 sq ft)	(months)	(qt/acre)

2 - 4 months	2.0 – 2.5 gts/A	1.5 – 1. 9 8 fl	2 months	10 ats
		oz/1000 sq ft		1.5
5 - 7 months	4.0 - 5.0 qts/A		2 months	10 qts
		oz/1000 sa ft		·

Tank Mix Combinations

Tank mix combinations of SURFLAN FLEX 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 FLEX for specific use directions, precautions and limitations before use.

SURFLAN FLEX herbicide Plus Glyphosate Herbicide: Apply tank mix combinations of SURFLAN FLEX plus glyphosate herbicide only as directed sprays in Christmas tree plantings. When applied according to use directions, SURFLAN FLEX plus glyphosate herbicide will provide postemergence control of susceptible weed species listed on the label for glyphosate herbicide and residual preemergence control of susceptible weed species listed on the label for SURFLAN FLEX. Refer to the label for glyphosate herbicide for specific use directions, precautions and limitations before use.

Special Use Precautions:

- Do not apply to Douglas-fir (Pseudotsuga menziesii).
- Do not apply to seedbeds or seedling transplant beds.
- Apply only to established plantings. Established plantings 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 rainfall or irrigation.
- Do not apply sprays containing glyphosate herbicide over the top of Christmas tree plantings.
- Extreme care must be exercised to avoid contact of spray containing glyphosate herbicide with foliage and stems of Christmas trees or severe damage or death may result.

Established Trees Grown for Pulp

SURFLAN FLEX herbicide may be applied as a preemergence treatment in plantations of established[†] trees grown for pulp. Applications may be made prior to the expected time of weed germination or immediately after tillage, or herbicide treatments to destroy existing weeds. Optimum herbicidal activity occurs when SURFLAN FLEX is applied directly to the soil surface following tillage or applications of contact or translocated herbicides to destroy existing weeds; and weed residues, prunings and trash are removed or thoroughly mixed into the soil using tillage equipment.

[†] Established plantings are defined as trees 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 as a result of rainfall or irrigation.

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label

Broadcast Application Rates

Soil Texture	Length of Control	SURFLAN FLEX (qt/acre)	Minimum Time Between Applications (months)	Total Amount Allowed Per Year (qt/acre/)
All Soil Textures	2 – 4 months 5 - 7 months 8 - 10 months	2.0 – 2.5 qts/a 4.0 – 5.0 qts/a 6.0 – 7.5 qts/a	2.5 months 2.5 months 2.5 months	15 qts 15 qts 15 qts

Tank Mix Instructions

To broaden the spectrum of weed control, SURFLAN FLEX may be applied in tank mix combination with labeled rates of other herbicide products, provided such products are labeled for use. Performance and

risk of carryover from tank mixed products used in combination with SURFLAN FLEX at specified rates is the same as when each product is used separately.

Application Methods

Chemigation

SURFLAN FLEX may be applied through properly equipped chemigation systems for weed control in tree plantations grown for pulp. Refer to "Chemigation" in "Use Information" for use directions. Do not apply SURFLAN FLEX by chemigation unless these use directions are carefully followed.

Apply SURFLAN FLEX by chemigation prior to weed germination or immediately after existing weeds have been controlled. Control existing unwanted vegetation by tillage or with a contact or translocated herbicide. Use broadcast application rates specified for SURFLAN FLEX alone. Apply in sprinkler irrigation equal to 1/2 to 1 inch of water on medium to fine textured or high organic matter soils.

Chemigation Use Precautions: Apply this product 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 are excluded, except for dormant season applications of SURFLAN FLEX Do not apply this product through any other type of irrigation system.

Noncropland Areas and Industrial Sites

Follow all instructions provided in the "Use Information" and "Precautions and Restrictions" sections of this label.

Broadcast Application Rates

Length of	SURFLAN FLEX		Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(qt/acre)	(fl oz/1000 sq ft)	(months)	(qt/acre)
2 - 4 months	2.0 - 2.5 qts/a	1.50 – 1. <mark>98</mark> 0 fl	2 months	7.5 qts/a
		oz/1000 sq ft		
5 -7 months	4.0 - 5.0qts/a	3.0 – 3.75 fl	4 months	15 qts/a
		oz/1000 sq ft		
8 - 10 months	6.0 – 7.5 qts/a	4.5 – 5.6 fl	8 months	15 qts/a
		oz/1000 sq ft		

Tank Mix Combinations

Tank mix combinations of SURFLAN FLEX plus glyphosate and many other labeled herbicides may be used to control undesirable vegetation in 1) **non-cropland areas** such as roadsides, rights-of-way, etc, or 2) **industrial sites** such as utility substations, highway guard rails, sign posts, and delineators. When applied according to labeled directions, these tank mixes will provide control of susceptible weed species listed on the respective product labels. Refer to tank mix product labels for specific use directions, precautions, and limitations before use.

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

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