70506-47



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

11/24/2010

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

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

NOV 24 2010

Subject:

Label Notification for Pesticide Registration Notice 2007-4 Surflan 0.25 A.S. EPA Reg. No. 70506-47 Application Dated: August 18, 2010

Dear Ms. Clemmer,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 for Surflan 0.25 A.S. (EPA Reg. No. 70506-47) dated August 18, 2010. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 2007-4 and finds that the action requested falls within the scope of PRN 2007-4.

We have also reviewed the updates to company and emergency contact information and updated warranty and find that these actions fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at (703) 305-1243.

Sincerely, Kathryn V/Montague, Product/Manager 23

Herbicide Branch Registration Division (7505P) Office of Pesticide Programs

Please read instructions on reverse before com	pleting form		Form				0, Approval expires 5-31-98
	United	States		Reg	istratio	n	OPP Identifier Number
	ronmental Pr	rotection Ag	ency	Ame	endmen	t	
				X Oth	er		
	Washington		sticide - Section				
1. Company/Product Number	Аррис		2. EPA Product Mar			3. Propos	ed Classification
70506-47			Montague				
4. Company/Product (Name) United Phosphorus, Inc/Surflan 0.25 A.S.			PM # 23			x Non	Restricted
5. Name and Address of Applicant (Includ	le ZIP Code)		6. Expedited Revie				
United Phosphorus, Inc. 630 Freedom Business Center, Suite 402			(b)(i), my product is a to:	similar or	dentical	in compo	sition and labeling
King of Prussia, PA 19406			EPA Reg No.				
Check if this is a new address			Product Name				
		Section					
Amendment – Explain below			Final printed	labels in	response	to	
Desubmission in response to Agence	ulattar datad		Agency letter "Me Too" App				
Resubmission in response to Agenc	y letter dated			ncation			
X Notification – Explain below			Other – Expla	in below	,		
			·				
Explanation: Use additional page(s) if ne	cessary. (For Se	ection I and Sec	tion II.)				
Notification of label changes per PR Notic	e 2007-4 and PR	98-10. This not	ification is consistent v	vith the g	uidance i	in PRN 20	007-4 and PRN 98-10
and the requirements of EPA's regulations	at 40CFR§152.4	46, 156.10, 156.	140, 156.144, 156.146	6, 156.15	6. No oth	er change	es have been made to
the labeling or the CSF for this product. I understand that if the amended label is no							
enforcement action and penalties under se		4 of FIFRA.					
	1.1	Secti	on III				
1. Material This Product Will be Packaged Child-Resistant Packaging Unit Packaged		Wat	ter Soluble Packaging			2. Type of	of Container
Yes Yes			Yes			Met	al
X No X No		x	No			x Plas Glas	
*Certification must If "Yes"	N	lo. per If "Y	'es"	No. per	r		
be submitted Unit Packa	aging wgt. c	ontainer Pac	kage wgt	contain	ier	Oth	er (Specify)
3. Location of Net Contents Information	4	. Size(s) Retail	Container		5 Locat	ion of lab	el directions
x Label Contain		gal, 2.5 gal	Container		x On	Label	
6. Manner in Which Label is Affixed to Pro	duct	Lithegraph		Oth		Label ac	companying product
0. Mannel III Which Laber is Alliked to Fit		x Paper glueo	d L	Othe	er		
		Stenciled					
4. Contrat Demon (Complete items direct	h . h . l f . r i d . m	Section		:f		ana an this	
1. Contact Person (Complete items direct Name	ly below for ident	Title	idual to be contacted, i	IT necess			clude Area Code)
Rebecca A. Clemmer		Regulatory I	Manager		610-491-	2828	
I certify that the statements I have made on		ication	roto aro truo acourato	and com	aloto	6.	Date Application Received
I acknowledge that any knowingly false or r						1	
both under applicable law		3. Title					(Stamped)
2. Signature		Regulatory I	Manager				
K.a. Clemmer							C CC C
4. Typed Name		5. Date				6	
Rebecca A. Clemmer		August 18, 2	August 18, 2010				
EPA Form 8570-1 (Rev. 8-94) Previous edit	ons are obsolete		White -	- EPA Fil	e Copy (O	riginalice	Yellow - Applicant Copy
	and are obsored		wine -	DITTI	- cohì (O	Buiar	C C C C C C C C C C C C C C C C C C C

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United Phosphorus, Inc.

630 Freedom Business Center Suite 402 King of Prussia, PA 19406 (610) 491-2828 (phone) (610) 491-2810 (fax) Rebecca A. Clemmer Regulatory Manager

August 19, 2010

Kathryn Montague (PM 23) Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

Re: Notification of Container Disposal Changes per PRN 2007-4

Dear Ms. Montague:

United Phosphorus, Inc. is providing Notification of the following changes in the labels for products listed below: container disposal wording per PRN 2007-4; updates to company and emergency contact information and updated warranty per PRN 98-10.

Products:

Surflan 75WSP – EPA Reg. No. 70506-40 Surflan 75W – EPA Reg. No. 70506-42 Surflan 0.25 A.S. – EPA Reg. No. 70506-47 Surflan 75W Manufacturing Use Product – EPA Reg. No. 70506-54

In support, for each product you will find:

- copy of the label marked to show changes
- EPA form 8570-1

Please contact me if you have any questions.

Very truly yours,

K. a. Clemmer

Rebecca A. Clemmer rebecca.clemmer@uniphos.com A Selective Preemergence Surface-Applied Herbicide for Use in Established Ornamentals and Southern Turfgrasses for the Control of Annual Grasses and Many Broadleaf Weeds in:

- Container Grown Ornamental Plants
- Ground Covers
- Noncropland Areas
- Ornamental Trees
- Ornamental Plants (Including Around Highway and Industrial Sites)

Active Ingredient:

/ touro mgroutorit.	
oryzalin: 3.5-dinitro-N ⁴ , N ⁴ -	
dipropylsulfanilamide	
Inert-Other Ingredients	
Total	100%
Contains 0.25 pounds active ingredient per gallo	on.

Avoid Freezing--Store Above 40ⁿF

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. 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. For 24 hour emergency medical assistance, call the National Pesticide InformationRocky Mountain Poison Control Center 1-800-858-7378866-673-6671.

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

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing.

United Phosphorus, Inc. 423 Riverview Plaza 630 Freedom Business Center Trenton, NJ 08611King of Prussia, PA 19406 1-800-247-1557438-6071 • www.upi-usa.com

EPA Reg. No. 70506-47

EPA	Est.		

Herbicide Net Contents - ____ Ornamental Woody Shrubs
Southern Turfgrasses (Including Bahiagrass, Bermudagrass,

Centipedegrass, St. Augustinegrass, Tall Fescue and Zoysiagrass)

NOTIFICATION

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Precautionary Statements Hazards to Humans and Domestic Animals Keep Out of Reach of Children CAUTION

Causes Moderate Eye Irritation • May Cause Skin Allergies To Develop

Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves

Shoes plus socks

. In addition, mixers and loaders must also wear a chemical-resistant apron.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should:

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

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment wash waters or rinsate.

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.

Not for use on plants grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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.

Storage and Disposal

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

Pesticide Storage: Avoid freezing. Store above 40^mF. Store in original container only. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

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

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General Information

Surflan 0.25 A.S. is a preemergence surface-applied herbicide for the control of annual grasses and many broadleaf weeds.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke, 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 alter use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by

Soil Preparation: Surflan 0.25 A.S. will not control established weeds. Therefore, areas to be treated should be free of established weeds. Weed residues, prunings and trash should be thoroughly mixed into the soil or removed prior to treatment. The soil should be in good tilth and free of clods at the time of application.

Application Restrictions:

- · Keep all persons, children, and pets out of treated area until sprays have dried.
- · Do not graze or feed forage from treated areas to livestock.

state and local authorities, by burning. If burned, stay out of smoke.

- · Do not aerially apply this product.
- · Chemigation: Do not apply this product through any type of irrigation system.

Ornamentals

General Use Precautions and Restrictions for Ornamentals

Apply only to established plantings. Rooted liners should be established in containers two weeks prior to treatment or crop injury may occur.

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Do not apply Surflan 0.25 A.S. in ornamental plantings where the likelihood of runoff onto lawn areas containing dichondra or cool-season turfgrass species exists as severe injury or death may occur. Poor weed control may result if directions are not followed. Over application may result in crop injury or excessive soil residue.

Plant only ornamental species listed on this label into soil treated the previous season with Surflan 0.25 A.S. or injury may occur.

Grasses Controlled by Surflan 0.25 A.S.

Common Name barley, little barnyardgrass (Watergrass) bluegrass, annual brachiaria (signalgrass) crabgrasses (large crabgrass) (smooth crabgrass) crowfootgrass cupgrass, southwestern foxtails (bottlegrass) (bristlegrass) (giant foxtail) (green foxtail) (pigeongrass) (robust foxtail) (yellow foxtail) goosegrass (Silver crabgrass) johnsongrass (Seedling only) junglerice lovegrass, Mexican lovegrass, orcutt oat, wild panicum, browntop panicum, fall (Spreading panicgrass) panicum, Texas buffalograss coloradograss ryegrass, Italian sandbur, field sprangletop, red witchgrass

Scientific Name Hordeum pusillum Echinochloa crusgalli Poa annua Brachiaria spp. Digitaria spp.

Dactyloctenium aegyptium Eriochloa gracilis Setaria spp.

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

Broadleaf Weeds Controlled by Surflan 0.25 A.S.

Common Name

bittercress carpetweed chickweed, common fiddleneck, coast filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate Cardamine spp. Mollugo verticillata Stellaria media Amsinckia intermedia Erodium cicutarium Erodium moschatum Senecio vulgaris Lamium amplexicaule Polygonum aviculare

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lambsquarters pigweeds (carelessweed) (prostrate pigweed) (redroot) (rough pigweed) (spring pigweed) (tumble pigweed) puncturevine purslane, common pusley, Florida (Florida purslane) (Mexican clover) (pusley) rocket, London rockpurslane, desert shepherdspurse spurge, prostrate woodsorrel, yellow

Chenopodium album Amaranthus spp.

Tribulus terrestris Portulaca oleracea Richardia scabra

Sisymbrium irio Calandrinia ciliata Capsella bursa pastoris Euphorbia humistrata Oxalis stricta

Suppression of the following weeds may be erratic, ranging from poor to excellent, depending upon soil temperature, time of germination, depth of seed in the soil, amount and timing of soil moisture.

Common Name annual sowthistle black mustard black nightshade climbing milkweed common mallow common ragweed horseweed ladysthumb

morningglory prickly lettuce smartweed spotted spurge

teaweed (prickly sida)

Common Name

volunteer wheat

wild mustard

velvetleaf

Surflan 0.25 A.S. will not control established weeds.

Mixing Directions

Start with a clean spray tank. Fill sprayer one-third (1/3) to one-half (1/2) full with clean water. Start agitation. Add correct quantity of Surflan 0.25 A.S., continue agitation and finish filling the tank. Maintain agitation from mixing through application.

If you see a buildup of material on the walls of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean the tank, lines, and screens thoroughly after use.

Application

Ground Application: Apply Surflan 0.25 A.S. as a directed spray to the soil surface or as an overtop spray. Apply Surflan 0.25 A.S. in sufficient water per acre to uniformly treat the area. Use only a properly calibrated, low-pressure herbicide sprayer that will apply the spray uniformly. Use herbicide tips and screens no finer than 50 mesh in nozzle and in-line strainers. As the amount of water used (spray volume) decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to ensure proper calibration and uniform application. Maintain agitation from mixing through application. Avoid boom overlaps that will increase rates above those recommended.

Surflan 0.25 A.S. will remain stable on the soil surface up to 21 days. In the absence of timely rainfall, irrigation can be used to move Surflan 0.25 A.S. into soil surface. A one-half (1/2) inch rain or its equivalent in sprinkler irrigation is necessary to activate Surflan 0.25 A.S. If weeds begin to emerge due to lack of rainfall or irrigation, shallow cultivate (1 to 2 inches) to destroy existing weeds or remove by hand in containers and place Surflan 0.25 A.S. in the weed germination zone. Shallow cultivation (1 to 2 inches) will not reduce herbicidal effectiveness. If Surflan 0.25 A.S. is not activated by rainfall, irrigation or cultivation within 21 days of application, erratic weed control may result.

Recommended Species

Surflan 0.25 A.S. may be used on the Following Ornamental Plant Species:

Common Name abelia, glossy apple arborvitae, Giant arborvitae, Oriental azalea barberry, Japanese begonia bird of paradise bottlebrush, lemon boxwood, common boxwood, Japanese brush cherry California laurel cape marigold cherry, Mahaleb cherry, sweet chrysanthemum, florists cleyera, Japanese cotoneaster, bearberry cotoneaster, brightbead cotoneaster, cranberry cotoneaster, Pyrenees cotoneaster, rock cotoneaster, rockspray coyotebush, dwarf crape Myrtle, common cryptomeria, Japanese cypress, Italian daisy, trailing African douglasfir eastercactus escallonia eucalyptus, mealy eucalyptus, narrow-leaved eucalyptus, red euonymus, evergreen euonymus, stringybark euonymus, winged falsecypress, Lawson fatshedera fir, alpine

Scientific Name Abelia grandiflora Malus spp. Thuja plicata Platycladus orientalis Rhododendron spp. Berberis thunbergii Begonia semper florans Strelitzia reginae Callistemon citrinus Buxus sempervirens Buxus microphylla japonica Syzygium paniculata Umbellularia californica Dimorphotheca spp. Prunus mahaleb Prunus avium Chrvsanthemum morifolium Cleyera japonica Cotoneaster dammeri Cotoneaster buxifolius Cotoneaster apiculatus Cotoneaster congestus Cotoneaster horizontalis Cotoneaster microphyllus Baccharis pilularis Lagerstroemia indica Cryptomeria japonica Cupressus sempervirens Osteospermum fruticosum Pseudotsuga taxifolia Rhipsalidopsis gaertneri Escallonia exoniensis Eucalyptus cinerea Eucalyptus nicholii Eucalyptus sideroxylon Euonymus japonica Euonymus fortunei Euonymus alata Chamaecyparis lawsoniana Fatshedera lizei Abies lasiocarpa

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fir, balsam fir, fraser fir, grand fir, Vietch fir, white firethorn firethorn, formosa firethorn, scarlet forsythia, border gazania, trailing geranium (Pelargonium) ginkgo hibiscus, Chinese

holly, Chinese

holly, English holly, Japanese honeysuckle, Japanese hopseedbush, clammy ice plant (See precautions for ornamental plantings) ice plant, largeleaf (See precautions for ornamental plantings) ivy, Algerian ivy, English jerseytea, redroot juniper laurelcherry, Carolina laurelcherry, English leucothoe, coast leucothoe, drooping lilac, common lily, plantain lilyturf, bigblue lily-of-the-Nile linden, little leaf magnolia, Southern manzanita, Stanford maple marigold mockorange moss, rose myoporum, prostrate myrtle, true oak Quercus spp. oleander orange, ornamental oregon grape osmanthus, holly-leaf palo verde, blue pansy pear pecan, ornamental periwinkle, bigleaf periwinkle, dwarf petunia

Abies balsamea Abies fraseri Abies grandis Abies veitchi Abies concolor Pyracantha, fortuneana Pyracantha skoidzumi Pyracantha skoidzumi Pyracantha coccinea Forsythia intermedia Gazania rigens leucolaena Pelargonium hortorum Ginkgo biloba Hibiscus rosa-sinesis Ilex cornuta

llex aquifolium llex crenata Lonicera japonica Dodonaea viscosa Mesembryanthemum crystallinum Carpobrutus edulis Hedera canariensis Hedera helix Ceanothus americanus Juniperus spp. Prunus caroliniana Prunus laurocerasus Leucothoe axillaris Leucothoe fontanesiana Syringa vulgaris Hosta spp. Liriope muscari Agapanthus africanus Tilia cordata Magnolia grandiflora Arctostaphylos stanfordiana Acer spp. Tagetes spp. Philadelphus spp. Portulaca grandiflora Myoporum parvifolium Myrtus communis

Nerium oleander Citrus spp. Mahonia aquifolium Osmanthus heterophyllus Cercidium floridum Viola wittrockiana Pyrus communis Carya spp. Vinca major Vinca minor Petunia spp.

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photinia pine pittosporum privet, amur privet, glossy privet, golden privet, Japanese protea ranunculus, Persian redbud redcedar, eastern redcedar, western redwood, coast rhaphiolepsis (India hawthorn) rhododendron rose rose-of-Sharon (Shrubalthea) **Russian olive** sage shrimp plant snapdragon sotol, desert spoon spruce, black spruce, Colorado spruce, Englemann spruce, Norway spruce, white star jasmine, Chinese stonecrop sumac, African sweetgum, American sweet William tobira trumpet vine, violet viburnum, Laurustinus virbumum, Sandankwa weigela, oldfashioned wintercreeper xylosma, Japanese yarrow yaupon yew Taxus media yew, Japanese yewpine yucca, pendulous yucca, soaptree zinnia, common

Photinia fraseri Pinus spp. Pittosporum spp. Ligustrum amurense Ligustrum lucidum Ligustrum vicaryi Ligustrum japonicum Protea neriifolia Ranunculus asiaticus Cercis canadensis Juniperus virginiana Thuja plicata Sequoia sempervirens Rhaphiolepsis indica Rhododendron spp. Rosa spp. Hibiscus syriacus Elaeagnus angustifolia Salvia spp. Justicia brandegeana Antirrhinum majus Dasylirion wheeleri Picea mariana Picea pungens Picea englemanni Picea abies Picea glauca Trachelospermum jasminoides Sedum brevifolium Rhus lancea Liquidambar styraciflua Dianthus barbatus Pittosporum tobira Clytostoma callistegioides Viburnum tinus Virbunum suspensum Weigela florida Euonymus fortunei Xylosma congestum Achillea spp. llex vomitoria

Taxus cuspidata Podocarpus macrophyllus Yucca recurvifolia Yucca elata Zinnea elegans

Surflan 0.25 A.S. may be used on the Following Container-Grown Plant Species:

Common Name andromeda arborvitae, American arborvitae, Oriental

astilbe/false spirea

Scientific Name Pieris japonica Thuja occidentalis Platycladus orientalis Astilbe chinensis and A. chinensis hybrids

barberry, Japanese bellflower blazing star bleeding heart bottlebrush, lemon boxwood, common brush cherry clevera, Japanese cotoneaster, bearberry cotoneaster, cranberry cotoneaster, parney cotoneaster, rock crape Myrtle, common cryptomeria, Japanese cypress, Arizona cypress, Italian daylily dogwood, kousa eastercactus escallonia euonymus, evergreen euonymus, stringybark fatshedera firethorn firethorn, formosa firethorn, scarlet gardenia ginkgo holly, Chinese holly, Japanese jersevtea, redroot juniper kumquat lilac, common lilyturf, bigblue lily-of-the-Nile linden, little leaf mockorange myrtle, true oak Quercus spp. oleander orange, ornamental pecan, ornamental photinia pine pittosporum privet, amur privet, glossy privet, golden privet, Japanese redbud rhaphiolepsis (India hawthorn) rhododendron russian olive shrimp plant spruce, Colorado

Berberis thunbergii Campanula elatines Liatris spicata Dicentra spectabilis Callistemon citrinus Buxus sempervirens Syzygium paniculata Clevera japonica Cotoneaster dammeri Cotoneaster apiculatus Cotoneaster lacteus Cotoneaster horizontalis Lagerstroemia indica Cryptomeria japonica Cupressus arizonica (glabra) Cupressus sempervirens Hemerocallis spp. Cornus kousa Rhipsalidopsis gaertneri Escallonia exoniensis Euonymus japonica Euonymus fortunei Fatshedera lizei Pyracantha, fortuneana Pyracantha skoidzumi Pyracantha coccinea Gardenia jasminoides Ginkgo biloba llex cornuta llex crenata Ceanothus americanus Juniperus spp. Fortunella spp. Syringa vulgaris Liriope muscari Agapanthus africanus Tilia cordata Philadelphus spp. Myrtus communis

Nerium oleander Citrus spp. Carya spp. Photinia fraseri Pinus spp. Pittosporum spp. Ligustrum amurense Ligustrum lucidum Ligustrum vicaryi Ligustrum japonicum Cercis canadensis Rhaphiolepsis indica Rhododendron spp. Elaeagnus angustifolia Justicia brandegeana Picea pungens

sumac, African
sweetgum, American
trumpet vine, violet
viburnum, Laurustinus
wintercreeper
yaupon
vucca, soaptree

Rhus lancea Liquidambar styraciflua Clytostoma callistegioides Viburnum tinus Euonymus fortunei Ilex vomitoria Yucca elata

Precaution

Ice Plant: When establishing unrooted ice plant on coarse soils in landscape plantings, use only the 1.5 pint of Surflan 0.25 A.S. or crop injury may occur. After the ice plant is well established, a second application may be made.

Broadcast Application Rates

Labeled Use Site	Length of Control	Surflan 0.25 A.S. (pt/1000 sq ft)	Minimum Time Between Applications (months)	Total Amount Allowed Per Year (pt/1000 sq ft)
Landscape	2 - 4 months	1.1 to 1.5	2	5.9
ornamentals	3 - 6 months	2.2	4	8.8
A Charles Charles	4 - 8 months	3	4	8.8
Field-grown and	2 - 4 months	1.5	3	5.9
container-grown	3 - 6 months	2.2	3	6.6
ornamentals	4 - 8 months	3	3	8.8

Southern Turfgrass Areas

Surflan 0.25 A.S. is a preemergence herbicide, which is applied to established Southern turf including bahiagrass, bermudagrass, centipedegrass, established tall fescue, St. Augustinegrass and zoysiagrass for the control of annual grasses and some broadleaf weeds. Surflan 0.25 A.S. works by controlling weeds as the seeds germinate.

Surflan 0.25 A.S. will not harm nearby established ornamental trees and shrubs. Do not apply Surflan 0.25 A.S. on golf course putting greens.

General Use Precautions and Restrictions for Southern Turfgrass

Surflan 0.25 A.S. will not control established weeds.

Surflan 0.25 A.S. may injure turf that is under weakened conditions due to degree of establishment or winter climatic conditions. Apply Surflan 0.25 A.S. to healthy, established turf only.

Use Surflan 0.25 A.S. only as a part of a total turf management program that includes good fertilization practices.

Surflan 0.25 A.S. should not be applied in the spring or summer to tall fescue turfgrass reserved the previous fall. In bermudagrass areas that have been overseeded with winter grasses, a spring application of Surflan 0.25 A.S. will thin the overseeded grasses.

Surflan 0.25 A.S. should not be applied to newly sprigged areas of bermudagrass, St. Augustinegrass, centipedegrass or zoysiagrass until these turfs are well established.

Surflan 0.25 A.S. should not be applied to newly hydromulched areas of bermudagrass until these areas are well established.

Do not spray Surflan 0.25 A.S. in combination with atrazine on turf.

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Areas planted with bermudagrass variety "Sun Turf" in Northern Oklahoma have shown sensitivity to Surflan 0.25 A.S. treatments.

Do not apply Surflan 0.25 A.S. on golf course putting greens.

Grasses Controlled by Surflan 0.25 A.S. Summer Annuals

Common Name barley, little barnyardgrass (watergrass) bluegrass, annual (poa) brachiaria (signalgrass) browntop panicum crabgrass (large crabgrass) (smooth crabgrass) crowfootgrass cupgrass downy brome fall panicum (spreading panicgrass) foxtails (bottlegrass) (bristlegrass) (giant foxtail) (green foxtail) (pigeongrass) (robust foxtail) (yellow foxtail) guineagrass (narrowleaf panicum) johnsongrass (seedling only) junglerice lovegrass, Mexican lovegrass, orcutt oat, wild ryegrass, annual (Italian) sandbur, field sprangletop, red Texas panicum (buffalograss) (coloradograss) witchgrass

Scientific Name Hordeum pusillum Echinochloa crus-galli Poa annua Brachiaria spp. Panicum fasciculatum Digitaria spp. Dactyloctenium aegyptium Eriochloa gracilis Bromus tectorum Panicum dichotomiflorum Setaria spp.

Panicum maximum

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

Panicum capillare

Winter Annuals

Common Name bluegrass, annual Scientific Name Poa annua

Broadleaf Weeds Controlled by Surflan 0.25 A.S.

Summer Annuals

Common Name carpetweed knotweed, prostrate purslane, common Scientific Name Mollugo verticillata Polygonum aviculare Portulaca oleracea

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	Winter	Annual	5
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Common Name chickweed, common henbit Scientific Name Stellaria media Lamium amplexicaule

Broadleaf Weeds Partially Controlled by Surflan 0.25 A.S.

Common Name	Scientific Name
groundsel, common	Senecio vulgaris
spurge, prostrate	Euphorbia humistrata
woodsorrel, yellow	Oxalis stricta

Surflan 0.25 A.S. will not control established weeds.

General Use Directions

Rates, Frequency and Timing of Application

Successful preemergence control of the annual grass weeds listed on this label requires proper timing of application.

Apply Surflan 0.25 A.S. prior to the germination of annual grass weeds. All summer annual grasses do not germinate at the same time. If application timing does not coincide with the normal germination period of any of the annual grass weeds listed on this label, weed control results may be erratic or poor. In the absence of timely rainfall, irrigation can be used to move Surflan 0.25 A.S. into the soil surface. Any cultural practices that disturb the soil, such as aerification or verticutting, should be done prior to application of Surflan 0.25 A.S.

Application Rates, Number of Applications Allowed and Minimum Interval between Applications:

	Surflan	0.25 A.S.	Minimum Time Between Applications	Total Amount Allowed Per Year
Warm Season Turf Areas	(pt/1000 sq ft)	(fl oz/1000 sq ft)	(months)	(pt/1000 sq ft)
All, except Florida	1.1 – 1.5	18 - 24	3	4.4
Florida	1.1	18	3	3.3

Application Directions

Surflan 0.25 A.S. can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for *Poa annua* and winter annual broadleaf weed control. Do not apply more than 1.1 pt (18 fl oz)/1000 sq ft per application in the state of Florida.

1. Spring Germinating Summer Annual Grasses and Broadleaf Weeds

For preemergence control, apply 1.5 pints (24 ounces) Surflan 0.25 A.S. per 1000 square feet per acre in late winter or early spring prior to the onset of conditions favorable for annual weed grass germination.

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For application to smaller areas, apply the following amounts of Surflan 0.25 A.S.:				
Amount Per 100 sq. ft.	Amount Per 500 sq. ft.	Amount Per 1000 sq. ft.		
21/2 07	121/2 07	24 07		

2. Annual Bluegrass (*Poa Annua*) and Broadleaf Winter Annuals In areas of heavy infestation of annual bluegrass, its elimination will temporarily result in thin turfgrass

areas. Proper fertilization, irrigation and soil incorporated reseeding will encourage existing desirable

turfgrasses and newly planted seedling turfgrasses to fill in these thin areas previously occupied by annual bluegrass. For preemergence control, apply 18 ounces Surflan 0.25 A.S. per 1000 square feet in the late summer or early fall prior to the expected germination of annual bluegrass and broadleaf winter annual weeds.

For application to smaller areas, apply the following amounts of Surflan 0.25 A.S.:				
Amount Per 100 sq. ft. Amount Per 500 sq. ft. Amount Per 1000 sq.				
13/4 07	83/4 07	18.07		

Application Equipment

Apply Surflan 0.25 A.S. evenly over the turfgrass areas without skips, misses, or overlaps. For best results use equipment designed to apply liquid herbicides and insecticides. Calibrate application equipment prior to use, according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing spray uniformly.

Surflan 0.25 A.S. is an orange chemical. No marker dyes are needed as this orange characteristic will serve as a marker dye.

Reseeding

Chemicals that effectively control annual weeds may also affect new desirable turfgrass seedlings. Reseeding should be delayed for at least 90-120 days after applying Surflan 0.25 A.S.. When reseeding, it is essential that proper cultural practices such as soil cultivation, irrigation and fertilization be followed. For satisfactory reseeding results after using Surflan 0.25 A.S., the amount of seed used should be increased and equipment designed to place seed in contact with the soil (such as the Rogers Aero Seeder) should be employed.

Noncropland Areas

Surflan 0.25 A.S. plus Roundup and many other labeled herbicides may be used to control undesirable vegetation in noncropland areas such as roadsides, rights-of-way, etc. When applied according to use 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.

Broadcast Application Rates

Labeled Use Site	Length of Control	Surflan 0.25 A.S. (pt/1000 sq ft)	Minimum Time Between Applications (months)	Total Amount Allowed Per Year (pt/1000 sq ft)
Noncropland	2 - 4 months	1.5	2	4.4
	6 -8 months	3	4	8.8
	8 - 12 months	4.4	8	8.8

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1. Refund of purchase price paid by buyer or user for product bought, or

2. Replacement of amount of product used.

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