

Surflan[®] XL 2G

HERBICIDE

Contains oryzalin, the active ingredient in Surflan[®] herbicides.

A selective preemergence herbicide for control of certain annual grasses and broadleaf weeds in:

- Container grown ornamentals
- Landscape ornamentals
- Nursery stock
- Ground covers
- Established flowers
- Ornamental bulbs
- Non-bearing fruit and nut trees and non-bearing vineyards
- Non-bearing berries
- Christmas tree plantations
- Non-cropland
- Established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass)

ACTIVE INGREDIENTS:

benefin: <i>N</i> -butyl- <i>N</i> -ethyl- α,α -trifluoro-2,6-dinitro- <i>p</i> -toluidine	1.0%
oryzalin: 3,5-dinitro- <i>N,N</i> -dipropylsulfanilamide	1.0%

OTHER INGREDIENTS	98.0%
TOTAL	100.0%

Contains 1 pound active ingredient per 50 pound bag

EPA Reg. No. 70506-45

**KEEP OUT OF REACH OF CHILDREN
CAUTION PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

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. For emergency medical assistance, call the Rocky Mountain Poison Control Center at 1-866-673-6671.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read the Conditions of Sale and Limitation of Warranty and Liability at end of label booklet. If terms are unacceptable, return at once unopened.**

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

**Precautionary Statements
Hazards to Humans and Domestic Animals**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Applicators, loaders and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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.

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 and aquatic invertebrates. Do not apply directly to water, or 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 washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

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 or pets, 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.

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 made of any waterproof material
- 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: Do not enter or allow other people or pets to enter the treated area until dusts have settled. If watering-in is required after the application, except for those people involved in the watering-in, do not enter or allow other people or pets to enter the treated areas until the watering-in is complete and the surface is dry.

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, contain material 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.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Surflan XL 2G herbicide is a preemergence herbicide for control of certain annual grasses and broadleaf weeds in container and landscape ornamentals, nursery stock, ground covers, established tall fescue and warm season turf, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, non-bearing berries, Christmas tree plantations, non-cropland and established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass). Apply Surflan XL 2G prior to germination of target weeds or immediately after cultivation. Length of weed control will vary with rate of Surflan XL 2G applied, weed population, potting media or soil conditions, temperature, watering regime, and other factors. Following application, user should monitor and observe level of weed control over time to determine when additional applications may be needed.

General Use Precautions and Restrictions

Do not aerially apply this product.

Do not graze or feed forage from treated areas to livestock.

Landscape and field grown ornamentals: maximum number of applications per year is 2.

Ornamental bulbs: for fall application to coarse soils – maximum number of applications per year is 2.

Ornamental bulbs: applications February through March, all soils – maximum number of applications per year is 3.

Christmas tree plantations: maximum number of applications per year is 2.

Noncrop areas: maximum number of applications per year is 2.

Surflan XL 2G does not control established weeds. Existing weeds should be controlled by cultivation or with postemergence herbicides. Weed residues, prunings and trash should be removed or thoroughly mixed into soil prior to treatment. Soil should be in good condition and free of clods at the time of application. When applied to turf, this product must be watered in as soon as possible after application to dissolve the granules. A single rainfall or irrigation of 1/2 inch or more is required after product application.

For other applications, a single rainfall or sprinkler irrigation of 0.5 inches or more, or flood irrigation is required to activate Surflan XL 2G. If rainfall or irrigation has not occurred within 21 days of application and tillage is possible, Surflan XL 2G may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1-2 inches of soil. Failure to activate Surflan XL 2G may result in erratic weed control. Do not apply when wind conditions favor drift of Surflan XL 2G granules from the target area.

Users who wish to use Surflan XL 2G on plant species not recommended on this label may determine the suitability for such uses by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30 to 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 XL 2G on plant species not recommended on this label.**

Application Directions

Apply Surflan XL 2G using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or crop injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

Application Techniques for Applying Surflan XL 2G

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the soil surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treating smaller areas or rows of nursery stock or ornamental beds, a hand held or push-type rotary applicator such as a whirlybird or cyclone unit is recommended. For hand held units, walk and turn the crank at a constant rate of speed.
- A shaker-type applicator made from a small container with holes punched in the bottom is recommended for small, difficult to treat areas. Carefully measure the amount of product needed to avoid over-application.

Approved Uses

Established† Container Grown Ornamentals, Established Tall Fescue and Warm Season Turfgrasses, Landscape Ornamentals, Nursery Stock, Ground Covers, Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees and Non-bearing Vineyards, Non-bearing Berries, Christmas Tree Plantations, and Non-cropland

Surflan XL 2G is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, ground covers, established tall fescue, warm season turfgrasses, established flowers, ornamental bulbs, non-bearing fruit and nut trees and non-bearing vineyards, non-bearing berries, Christmas tree plantations, and non-cropland. Apply Surflan XL 2G prior to germination of target weeds, or immediately after cultivation.

†Definition of established plantings: Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. Do not apply to seedbeds or seedling transplant beds.

Broadcast Application Rates

Labeled Use Site	Surflan XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb./acre)
	(lb./acre)	(lb./1,000 sq. ft.)		
• Landscape Ornamentals	200	4.6	2	400
• Field-grown and container-grown ornamentals	300	6.9	4	600

Note: Refer to the "General Information" section of this label for general use precautions and information on application.

Special Use Precautions

To avoid possible plant injury, **do not apply Surflan XL 2G to:**

- plants or areas in greenhouses or other enclosed structures.
- plants that will bear fruits, berries or nuts within 12 months of application.
- nursery seedbeds or forest or Christmas tree seedling transplant beds.
- 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 the likelihood of runoff onto lawn areas containing dichondra or cool season turfgrass species exists.

- Do not apply Surflan XL 2G to the following plant species or injury may occur:

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

Ice Plant: When establishing unrooted ice plant (*Mesembryanthemum crystallinum* and *Carpobrotus edulis*) on coarse soils, do not exceed the 200 lbs./acre rate of Surflan XL 2G or crop injury may occur. After the ice plant is well established, a second application may be made.

Unlisted plant species: Users who wish to use Surflan XL 2G on plant species not recommended on this label may determine the suitability for such uses by treating a small number of such plants at a recommended rate. Prior to treatment of larger areas, the treated plants should be observed for any sign of herbicidal injury during 30 to 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 XL 2G on plant species not recommended on this label.**

Weeds Controlled or Suppressed by Surflan XL 2G

Weeds controlled when Surflan XL 2G is applied at a rate of 200 to 300 pounds per acre (4.6 to 6.9 pounds per 1,000 sq. ft.).

Annual Grasses

Common Name	Scientific Name
barley, little	<i>Hordeum pusillum</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
crabgrass	<i>Digitaria</i> spp.
crowfootgrass	<i>Dactyloctenium aegyptium</i>
cupgrass, southwestern	<i>Eriochloa gracilis</i>
foxtail	<i>Setaria</i> spp.
goosegrass	<i>Eleusine indica</i>
johnsongrass (seedling only)	<i>Sorghum halepense</i>
junglerice	<i>Echinochloa colonum</i>
lovegrass, Mexican	<i>Eragrostis mexicana</i>
lovegrass, orcutt	<i>Eragrostis orcuttiana</i>
oat, wild	<i>Avena fatua</i>
panicum, browntop	<i>Panicum fasciculatum</i>
panicum, fall	<i>Panicum dichotomiflorum</i>
panicum, Texas	<i>Panicum texanum</i>
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>
signalgrass	<i>Brachiaria</i> spp.
sprangletop, red	<i>Leptochloa filiformis</i>
witchgrass	<i>Panicum capillare</i>

Broadleaf Weeds

Common Name	Scientific Name
bittercress	<i>Cardamine oligosperma</i>
carpetweed	<i>Mollugo verticillata</i>
chickweed, common	<i>Stellaria media</i>
fiddleneck, coast	<i>Amsinckia intermedia</i>
filaree, redstem	<i>Erodium cicutarium</i>
filaree, whitestem	<i>Erodium moschatum</i>
groundsel, common	<i>Senecio vulgaris</i>
henbit	<i>Lamium amplexicaule</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
lambquarters, common	<i>Chenopodium album</i>
pigweed	<i>Amaranthus</i> spp.
puncturevine	<i>Tribulus terrestris</i>
purslane, common	<i>Portulaca oleracea</i>
pusley, Florida	<i>Richardia scabra</i>
rocket, London	<i>Sisymbrium irio</i>
rockpurslane, desert	<i>Calandrinia ciliata</i>
shepherdspurse	<i>Capsella bursa-pastoris</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 200 to 300 pounds per acre (4.6 to 6.9 pounds per 1,000 sq ft).

Common Name	Scientific Name
horseweed	<i>Conyza canadensis</i>
ladysthumb	<i>Polygonum persicaria</i>
lettuce, prickly	<i>Lactuca serriola</i>
mallow, common	<i>Malva neglecta</i>
milkweed, climbing	<i>Sarcostemma cynanchoides</i>
morningglory	<i>Ipomoea</i> spp.
mustard, black	<i>Brassica nigra</i>
mustard, wild	<i>Brassica kaber</i>
nightshade, black	<i>Solanum nigrum</i>
ragweed, common	<i>Ambrosia artemisiifolia</i>
smartweed	<i>Polygonum pensylvanicum</i>
sowthistle, annual	<i>Sonchus oleraceus</i>
spurge, spotted	<i>Euphorbia maculata</i>
teaweed (prickly sida)	<i>Sida spinosa</i>
velvetleaf	<i>Abutilon theophrasti</i>
wheat, volunteer	<i>Triticum</i> spp.

**Surflan XL 2G May Be Used On The Following
Established Plant Species:
(Note limitations on recommended
treatment methods.)**

Trees

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Abies balsamea</i> Balsam fir	F
<i>Abies concolor</i> White fir	F
<i>Abies fraseri</i> Fraser fir	F
<i>Abies grandis</i> Grand fir	F
<i>Abies lasiocarpa</i> Alpine fir	F
<i>Abies veitchi</i> Veitch fir	F
<i>Abutilon hybridum</i> Albus flowering maple	F
Luteus flowering maple	F
Roseus flowering maple	F
Tangerine flowering maple	F
Vesuvius red flowering maple	F
<i>Acer</i> spp. maple	F
<i>Arecastrum romanzoffianum</i> Queen palm	F
<i>Betula papyrifera</i> Paper birch	F
<i>Betula nigra</i> River birch	F
<i>Betula pendula</i> White birch	F
<i>Bucida buceras</i> Black olive	F
<i>Ceratonia siliqua</i> Carob	F
<i>Cercidium floridum</i> Blue palo verde	F
<i>Cercis canadensis</i> Redbud	C,F
<i>Chamaecyparis lawsoniana</i> Lawson falsecypress	F
<i>Chamaecyparis obtusa</i> spp. Filicoides-fernspray cypress	F
Gracilis-slender Hinoki cypress	F
<i>Chamaecyparis pisifera</i> Sawara-false cypress	F
Squarrosa-moss cypress	F
<i>Chamaedorea cataractarum</i> Cat palm	F
<i>Chamaedorea costaricana</i> Palm	F

Trees (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Chamaedorea elegans</i> Parlor palm	F
<i>Cornus florida</i> Flowering dogwood	F
<i>Crupaniopsis anacardioides</i> Carrot wood	F
<i>Cryptomeria japonica</i> Japanese cryptomeria	C,F
<i>Cupressus glabra</i> Arizona cypress	C,F
<i>Cupressus sempervirens</i> Italian cypress	C,F
<i>Elaeagnus angustifolia</i> Russian olive	C,F
<i>Eucalyptus cinerea</i> Mealy eucalyptus	F
Silver dollar eucalyptus	F
<i>Eucalyptus camaldulensis</i> Red gum eucalyptus	F
<i>Eucalyptus nicholii</i> Narrow-leaved eucalyptus	F
<i>Eucalyptus sideroxylon</i> Red ironbark eucalyptus	F
<i>Ficus benjamina</i> Ficus	F
<i>Fraxinus</i> spp. Ash	F
<i>Ginkgo biloba</i> Maidenhair tree	C,F
<i>Gleditsia triacanthos</i> Honey locust	F
<i>Heteromeles arbutiflora</i> Toyon	F
<i>Juniperus virginiana</i> Eastern redcedar	F
<i>Kalmia latifolia</i> Mountain laurel	F
<i>Koelreuteria paniculata</i> goldenrain tree	F
<i>Liquidambar styraciflua</i> American sweet gum	C,F
<i>Magnolia grandiflora</i> Southern magnolia	F
<i>Malus</i> spp. Crabapple	F
<i>Morus alba</i> White mulberry	F
<i>Olea euripaea</i> Olive	F
<i>Picea abies</i> Norway spruce	F
<i>Picea engelmanni</i> Engelmann spruce	F

Trees (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Picea glauca</i> Conica-dwarf Alberta spruce	F
White spruce	F
<i>Picea mariana</i> Black spruce	F
<i>Picea pungens</i> spp. Glauca-Colorado blue spruce	F
Hoopsii-Hoop's blue spruce	F
Koster-Koster blue spruce	F
<i>Pinus</i> spp. Pine	C,F
<i>Platanus occidentalis</i> American sycamore	F
<i>Platanus racemosa</i> California sycamore	F
<i>Podocarpus</i> spp. Podocarpus	F
<i>Populus deltoides</i> Cottonwood	F
<i>Prunus caroliniana</i> Carolina laurelcherry	F
<i>Prunus laurocerasus</i> English laurelcherry	F
<i>Prunus mahaleb</i> Mahaleb cherry	F
<i>Prunus yedoensis</i> Yoshino flowering cherry	F
<i>Quercus</i> spp. Oak	C,F
<i>Salix babylonica</i> Babylon weeping willow	F
Corkscrew willow	F
<i>Schinus molle</i> California pepper tree	F
<i>Sequoiadendron giganteum</i> Giant sequoia	F
<i>Sequoia sempervirens</i> Coast redwood	F
<i>Swietenia mahogany</i> Mahogany	F
<i>Tabebuia caraiba</i> Yellow tab	F
<i>Tilia cordata</i> Littleleaf linden	C,F
<i>Thuja plicata</i> Western redcedar	F
<i>Ulmus parvifolia</i> Chinese Elm	F
<i>Umbellularia californica</i> California laurel	F
<i>Washingtonia robusta</i> Mexican fan palm	F

Ornamental Shrubs

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Abelia grandiflora</i> Glossy abelia	F
<i>Acacia redolens</i> Prostrate acacia	F
<i>Agave americana</i> Century plant	F
<i>Agave macroculmis</i> Agave	F
<i>Arctostaphylos stanfordiana</i> Stanford manzanita	F
<i>Astilbe chinensis</i> False spirea	C,F
<i>Baccharis pilularis</i> Coyotebush	F
<i>Berberis thunbergii</i> Atropurea-Redleaf Japanese barberry	C,F
Aurea golden Japanese barberry	C,F
Crimson pygmy barberry	C,F
<i>Bougainvillea</i> spp. Barbara Karst	F
California Gold	F
Scarlet O'Hara	F
Texas Dawn	F
<i>Buxus microphylla</i> Japonica-Japanese boxwood	C,F
Littleleaf boxwood	F
<i>Buxus sempervirens</i> Common boxwood	C,F
<i>Callistemon citrinus</i> Lemon bottlebrush	C,F
<i>Ceanothus</i> spp. Wild lilac	C,F
<i>Chamaecyparis obtusa</i> spp. Kosteri cypress	F
Nana-dwarf Hinoki cypress	F
Torulosa cypress	F
<i>Chamaecyparis pisifera</i> Filifera-thread cypress	F
Squarrosa minima-dwarf moss cypress	F
<i>Chrysalidocarpus lutescens</i> Areca palm	F
<i>Cleyera japonica</i> Japanese cleyera	C,F
<i>Cotoneaster adpressus</i> Praecox-early cotoneaster	F
<i>Cotoneaster apiculatus</i> Cranberry cotoneaster	C,F
<i>Cotoneaster buxifolius</i> Brightbead cotoneaster	F
<i>Cotoneaster congestus</i> Pyrenees cotoneaster	F
<i>Cotoneaster dammeri</i> Bearberry cotoneaster	C,F

Ornamental Shrubs (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Cotoneaster himalayan</i> Himalayan cotoneaster	F
<i>Cotoneaster horizontalis</i> Rock cotoneaster	C,F
<i>Cotoneaster lacteus</i> Parney cotoneaster	C,F
<i>Cotoneaster microphyllus</i> Rockspray cotoneaster	F
<i>Cornus alba</i> Sibirica-Siberian dogwood	F
<i>Cornus florida</i> Flowering dogwood	F
<i>Cornus kousa</i> Kousa dogwood	C,F
<i>Cornus stolonifera</i> Flaviramea-yellowtwig dogwood	F
<i>Cryptomeria japonica</i> Japanese cryptomeria	C,F
<i>Cytisus praecox</i> Holandia-warminster broom	F
<i>Cytisus scoparius</i> Lena-Scotch broom	F
<i>Dasyllirion wheeleri</i> Desert spoon sotol	F
<i>Deutzia crenata</i> Nakiana dwarf deutzia	F
<i>Dodonea viscosa</i> Hopseed bush	F
<i>Escallonia exoniensis</i> Escallonia	C,F
<i>Euonymus alata</i> Winged euonymus	F
<i>Euonymus fortunei</i> Canadale gold euonymus	C,F
Emerald'n gold euonymus	C,F
Stringybark euonymus	C,F
Wintercreeper	C,F
<i>Euonymus japonica</i> Evergreen euonymus	C,F
Silver king euonymus	F
<i>Euonymus kiautschovica</i> Spreading euonymus	F
<i>Fatshedera lizei</i> Fatshedera	C,F
<i>Forsythia intermedia</i> Forsythia	F
<i>Gardenia jasminoides</i> Gardenia	C,F
<i>Genista pilosa</i> Woadwaxen	F
<i>Hibiscus rosa-sinensis</i> Chinese hibiscus	F
Ross Estey hibiscus	F

Ornamental Shrubs (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Hibiscus syriacus</i> Rose of Sharon, Red Bird	F
Rose of Sharon, Red Heart	F
Rose of Sharon, Woodbridge	F
<i>Hypericum</i> spp. St. Johnswort	F
<i>Ilex aquifolium</i> Balkans holly	F
English holly	F
Gold coast holly	F
<i>Ilex aquipernyi</i> San Jose holly	C,F
<i>Ilex cornuta</i> Chinese holly	C,F
Dwarf burford holly	C,F
<i>Ilex crenata</i> Convexa holly	C,F
Compacta-dwarf Japanese holly	C,F
Helleri-Heller's Japanese holly	C,F
Japanese holly	C,F
<i>Ilex glabra</i> Nordica-inkberry holly	F
<i>Ilex meserveae</i> Blue girl holly	F
Blue boy holly	F
Ebony magic holly	F
<i>Ilex vomitoria</i> Nana-dwarf yaupon holly	C,F
Pendula-weeping yaupon holly	C,F
Yaupon holly	C,F
<i>Juniperus</i> spp. Juniper	C,F
<i>Justicia brandegeana</i> Shrimp plant	C,F
<i>Justicia spicigera</i> Mexican honeysuckle	F
<i>Lagerstroemia indica</i> Crape myrtle	C,F
<i>Leucothoe axillaris</i> Coast leucothoe	F
<i>Leucothoe fontanesiana</i> Drooping leucothoe	F
<i>Ligustrum amurense</i> Amur privet	C,F
<i>Ligustrum japonicum</i> Japanese privet	C,F
Yellow tip ligustrum	C,F
<i>Ligustrum texanum</i> Wax leaf privet	F
Howardi privet	F
<i>Ligustrum lucidum</i> Glossy privet	C,F
<i>Ligustrum ovalifolium</i> California privet	F

Ornamental Shrubs (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Ligustrum vicaryi</i> Vicary golden privet	C,F
<i>Livistona chinensis</i> Chinese fountain palm	F
<i>Lonicera fragrantissima</i> Winter honeysuckle	F
<i>Lonicera periclymenum</i> Flowering woodbine Serotina woodbine	F F
<i>Lonicera sempervirens</i> Trumpet honeysuckle	F
<i>Mahonia aquifolium</i> Oregon grape	F
<i>Myoporum parvifolium</i> Prostrate myoporum	F
<i>Myrtus communis</i> True myrtle	C,F
<i>Nandina domestica</i> Compacta-dwarf heavenly bamboo Harbour-dwarf heavenly bamboo Heavenly bamboo Nana compacta-heavenly bamboo Nana purpurea-heavenly bamboo Woods-dwarf heavenly bamboo	C,F C,F C,F C,F C,F C,F
<i>Nerium oleander</i> Hardy red oleander Oleander Ruby lace oleander	C,F C,F C,F
<i>Osmanthus heterophyllus</i> Holly-leaf osmanthus	F
<i>Pachysandra terminalis</i> Japanese spurge	F
<i>Philadelphus</i> spp. Mockorange	C,F
<i>Phoenix roebelenii</i> Pygmy date palm	F
<i>Photinia fraseri</i> Fraser's photinia	C,F
<i>Picea abies</i> Repens-spreading Norway spruce Pendula-weeping Norway spruce	F F
<i>Pieris japonica</i> Andromeda Lily-of-the-valley Snowdrift Temple bells lily-of-the-valley Valley rose lily-of-the-valley	C,F F F F F
<i>Pittosporum</i> spp. Pittosporum	C,F
<i>Platyclusus orientalis</i> Oriental arborvitae	C,F
<i>Plumbago ariculata</i> Blue cape plumbago	F
<i>Podocarpus macrophyllus</i> Yewpine	C,F

Ornamental Shrubs (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Potentilla fragiformis</i> Cinquefoil	F
<i>Potentilla fruticosa</i> Cinquefoil	C,F
<i>Protea neriifolia</i> Protea	F
<i>Pyracantha coccinea</i> Scarlet firethorn	C,F
<i>Pyracantha fortuneana</i> Lalendel Monrovia pyracantha Monon pyracantha Red elf hybrid pyracantha Rutgers hybrid pyracantha Santa Cruz pyracantha Victory pyracantha	C,F C,F C,F C,F C,F C,F
<i>Pyracantha skoidzumii</i> Formosa firethorn	C,F
<i>Raphiolepis indica</i> Enchantress-Moness raphiolepis India hawthorn Springtime-Monme raphiolepis	F C,F F
<i>Raphiolepis ovata</i> Round-leaf raphiolepis	F
<i>Rhipsalidopsis gaetneri</i> Easter cactus	C,F
<i>Rhododendron</i> spp. Azalea Rhododendron	C,F C,F
<i>Rhus lancea</i> African sumac	C,F
<i>Rosa rugosa</i> Ramanas rose	F
<i>Rosmarinus officinalis</i> Rosemary	F
<i>Spiraea vanhouttei</i> Bridal wreath	F
<i>Syringa vulgaris</i> Common lilac	F
<i>Syzygium paniculata</i> Brush cherry	C,F
<i>Taxus cuspidata</i> Japanese yew	F
<i>Taxus media</i> Yew	F
<i>Thuja occidentalis</i> American arborvitae Emerald arborvitae Globosa-globe arborvitae Little Giant-dwarf arborvitae Nigra-dark American arborvitae Pyramidalis arborvitae Rheingold arborvitae Woodwardii arborvitae	F F F F F F F

Ornamental Shrubs (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Thuja orientalis</i>	
Aurea nana-dwarf golden arborvitae	F
Minima glauca-dwarf arborvitae	F
<i>Trachelospermum jasminoides</i>	
Chinese star jasmine	F
<i>Veitchia merilli</i>	
Christmas palm	F
<i>Viburnum davidii</i>	
David viburnum	F
<i>Viburnum japonicum</i>	
Viburnum	F
<i>Viburnum opulus sterile</i>	
Eastern snowball viburnum	F
<i>Viburnum plicatum tomentosum</i>	
Doublefile viburnum	F
<i>Viburnum x pragense</i>	
Virburnum	F
<i>Viburnum setigerum</i>	
Tea viburnum	F
<i>Viburnum suspensum</i>	
Sandankwa viburnum	F
<i>Viburnum tinus</i>	
Compactum-spring bouquet viburnum	F
Laurastinus viburnum	C,F
<i>Viburnum trilobum</i>	
Compactum-dwarf cranberry bush	F
<i>Weigela florida</i>	
Java red weigela	F
Bristol ruby weigela	F
Minuet weigela	F
<i>Xylosma congestum</i>	
Xylosma	F
<i>Yucca elata</i>	
Soaptree yucca	C,F
<i>Yucca recurvifolia</i>	
Pendulous yucca	F

Ground Covers

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Agapanthus africanus</i>	
Lily-of-the-Nile	C,F
<i>Ajuga</i> spp.	
Carpet bugle	F
<i>Arctotheca calendula</i>	
Cape weed	F
<i>Campanula elatines</i>	
Bellflower	C,F
<i>Carpobrotus edulis</i>	
Largeleaf iceplant	F

Ground Covers (continued)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Clytostoma callistegioides</i>	
Violet trumpet vine	C,F
<i>Cortaderia selloana</i>	
Pampas grass	F
<i>Delosperma alba</i>	
White iceplant	F
<i>Drosanthemum floribundum</i>	
Trailing rosea iceplant	F
<i>Festuca ovina</i>	
Blue fescue	F
<i>Gazania</i> spp.	
Gazania	F
<i>Hedera canariensis</i>	
Algerian ivy	F
<i>Hedera helix</i>	
English ivy	F
<i>Hemerocallis</i> spp.	
Day lily	C,F
<i>Hosta</i> spp.	
Plantain lily	C,F
<i>Hypericum</i> spp.	
St. Johnswort	F
<i>Lampranthus spectabilis</i>	
Red trailing iceplant	F
<i>Liriope gigantea</i>	
White lily turf	F
<i>Liriope muscari</i>	
Big blue lily turf	C,F
Lilac beauty lily turf	C,F
Majestic lily turf	C,F
Monroe white lily turf	C,F
Silvery sunproof lily turf	C,F
Variegated liriope lily turf	C,F
<i>Lonicera japonica</i>	
Japanese honeysuckle	F
<i>Mesembryanthemum crystallinum</i>	
Ice plant	F
<i>Ophiopogon japonicus</i>	
Mondo grass	F
<i>Osteospermum fruticosum</i>	
Trailing African daisy	F
<i>Sedum brevifolium</i>	
Stonecrop	F
<i>Trachelospermum jasminoides</i>	
Chinese star jasmine	F
<i>Vinca major</i>	
Bigleaf periwinkle	F
<i>Vinca minor</i>	
Dwarf periwinkle	F

Established Flowers

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Achillea</i> spp. Yarrow	F
<i>Antirrhinum majus</i> Snapdragon	F
<i>Caladium bicolor</i> Fancy-leaved caladium	F
<i>Chrysanthemum coccineum</i> Painted daisy	F
<i>Chrysanthemum maximum</i> Shasta daisy	F
<i>Chrysanthemum morifolium</i> Chrysanthemum	F
<i>Coreopsis lanceolata</i> Coreopsis	F
<i>Dianthus barbatus</i> Sweet william	F
<i>Dicentra spectabilis</i> Bleeding heart	C,F
<i>Dimorphotheca</i> spp. Cape marigold	F
<i>Echinacea purpurea</i> Purple coneflower	F
<i>Geum quellyon</i> Geum	F
<i>Gladiolus hortulanus</i> Gladiolus	F
<i>Gypsophila paniculata</i> Baby's breath	F
<i>Impatiens wallerana</i> Impatiens	F
<i>Iris</i> spp. Bearded iris	F
<i>Liatris spicata</i> Blazing star	C,F
<i>Pelargonium hortorum</i> Geranium	F
<i>Petunia</i> spp. Petunia	F
<i>Portulaca grandiflora</i> Rose moss	F
<i>Ranunculus asiaticus</i> Persian ranunculus	F
<i>Rosa</i> spp. Rose	F
<i>Rudbeckia hirta</i> Gloriosa daisy/black-eyed susan	F
<i>Salvia</i> spp. Sage	F
<i>Stokesia laevis</i> Stokes aster	F
<i>Strelitzia reginae</i> Bird of paradise	F

Established Flowers (*continued*)

Scientific Name/ Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
<i>Tagetes</i> spp. Marigold	F
<i>Viola wittrockiana</i> Pansy	F
<i>Zinnia elegans</i> Common zinnia	F

Non-bearing Fruit and Nut Trees and Non-bearing Vineyards[†]

Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
Almond	F
Apple	F
Apricot	F
Avocado	F
Cherry, sour	F
Cherry, sweet	F
Fig	F
Filbert	F
Grape, American	F
Grape, European	F
Grapefruit	F
Kiwi	F
Kumquat	C,F
Lemon	F
Macadamia nut	F
Nectarine	F
Olive	F
Orange	C,F
Peach	F
Pear	F
Pecan	C,F
Pistachio	F
Plum	F
Pomegranate	F
Prune	F
Walnut, black	F
Walnut, English	F

[†]Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants that will not bear fruit for at least one year after treatment. Do not apply to plants that will bear fruits, berries or nuts within 12 months of application

Non-bearing Berries^{††}

Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
	Blackberry
Blueberry	F
Boysenberry	F
Currant	F
Dewberry	F
Elderberry	F
Gooseberry	F
Loganberry	F
Raspberry	F

^{††}Non-bearing berries are defined as plants that will not bear berries for at least one year after treatment. Do not apply to plants that will bear fruits, berries or nuts within 12 months of application

Ornamental Bulbs

Special Use Precautions

Do not apply to tulip plants that have emerged to a height greater than 3/4 inch. Deep till prior to planting any crop after this use.

Do not apply to gladioli prior to emergence or to plants less than one inch in diameter.

Application Rates, Frequency, and Timing of Applications

Surflan XL 2G may be applied for annual weed control in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), hyacinth, and tulip. Apply Surflan XL 2G to the soil surface two (2) to four (4) weeks after planting and final hilling but prior to the emergence of annual weeds. Surflan XL 2G may also be applied following bulb emergence. For fall-planted bulbs, apply Surflan XL 2G again in late winter or early spring to weed-free soil surfaces.

Broadcast Application Rates

Time of Application	Soil Texture	Surflan XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb./acre)
		(lb./acre)	(lb./1,000 sq. ft.)		
Fall	Coarse	75	1.7	3	150
Fall	Medium and Fine	150	3.4	3	225
Feb. - March	All Soil Textures	75	1.7	3	225

Christmas Tree Plantations

Apply Surflan XL 2G to established plantings of labeled field grown Christmas tree species prior to germination of target weeds. Do not apply to Douglas fir (*Pseudotsuga menziesii*) or Eastern hemlock (*Tsuga canadensis*). Do not apply to seedbeds or seedling transplant beds. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation.

Broadcast Application Rates

Length of Control	Surflan XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb./acre)
	(lb./acre)	(lb./1,000 sq. ft.)		
2 - 4 months	200	4.6	2	400

Note: Refer to the "General Information" section of this label for general use precautions and information on application. Refer to "Approved Uses" section of this label for special use precautions and information weeds controlled.

Noncropland Areas: Industrial Sites, Utility Substations, Highway Guardrails, Sign Posts, and Delineators

Surflan XL 2G is recommended as a preemergence treatment for control of certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guardrails, sign posts, and delineators. Apply Surflan XL 2G prior to germination of target weeds. Areas to be treated should be free of established weeds or existing weeds should be controlled with postemergence herbicides.

Broadcast Application Rates

Length of Control	Surflan XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb./acre)
	(lb./acre)	(lb./1,000 sq. ft.)		
2 - 4 months	200	4.6	2	400

Note: Refer to the "General Information" section of this label for general use precautions and information on application. Refer to "Approved Uses" section of this label for special use precautions and information weeds controlled.

Warm Season Turfgrasses

Surflan XL 2G 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 and zoysiagrass or 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.

Successful preemergence control of weeds listed on this label requires that Surflan XL 2G be applied prior to weed germination and be activated by at least one-half (1/2) inch of rainfall or irrigation as soon as possible after application.

Special Use Precautions:

To avoid possible injury, do not apply Surflan XL 2G to:

- Cool season turfgrass species other than tall fescue.
- Lawns containing dichondra or cool season turfgrass species.
- Golf course putting greens or tees.
- Turfgrass in the spring that was planted the previous fall.
- Newly sprigged or sodded areas of bermudagrass, St. Augustinegrass, centipedegrass, zoysiagrass or tall fescue until these turfs are well established and have well anchored root systems.
- Newly hydromulched areas of bermudagrass until such areas are well established.

- This product must be watered in as soon as possible after application to dissolve the granules. A single rainfall or irrigation of 1/2 inch or more is required after product application. Watering-in must be performed by the commercial applicator or the commercial applicator must provide the following information to the resident or owner in writing:
 - “This product must be watered in as soon as possible.”
 - “Do not enter or allow others (including children or pets) to enter the treated areas (except those involved in the watering) until the watering-in is complete and the surface is dry.”

Surflan XL 2G will not control emerged weeds.

Surflan XL 2G 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 XL 2G only to healthy, well-established turf that has a well-anchored root system.

Do not apply Surflan XL 2G 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 pounds per acre in early summer (Round 1) and Surflan XL 2G at 100 pounds per acre approximately eight weeks later (Round 2).

In bermudagrass areas that have been overseeded with winter grasses, a spring application of Surflan XL 2G will thin the overseeded grasses.

Weeds Controlled or Suppressed by Surflan XL 2G

Weeds controlled by Surflan XL 2G when applied at 100 to 150 lbs./acre (2.3 to 3.4 lbs./1,000 sq. ft.).

Annual Grasses

Summer Annuals:

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Crabgrass	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
foxtail	<i>Setaria</i> spp.
Goosegrass	<i>Eleusine indica</i>
Johnsongrass (seedling only)	<i>Sorghum halepense</i>
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>

Broadleaf Weeds

Summer Annuals:

Common Name	Scientific Name
Carpetweed	<i>Mollugo verticillata</i>
knotweed, prostrate	<i>Polygonum aviculare</i>
purslane, common	<i>Portulaca oleracea</i>

Winter Annuals:

Common Name	Scientific Name
chickweed, common	<i>Stellaria media</i>
henbit	<i>Lamium amplexicaule</i>

In addition to the weeds controlled, the following weeds will be partially controlled or suppressed at 100 to 150 lbs./acre (2.3 to 3.4 lbs./1,000 sq. ft.).

Common Name	Scientific Name
carrot, wild	<i>Daucus carota</i>
fleabane, dwarf	<i>Conyza ramosissima</i>
groundsel, common	<i>Senecio vulgaris</i>
mustard, Indian	<i>Brassica juncea</i>
spurge, prostrate	<i>Euphorbia humistrata</i>
woodsorrel, yellow	<i>Oxalis stricta</i>

Application Rates, Frequency and Timing of Applications

Surflan XL 2G can be applied in the spring for summer annual grass and broadleaf weed control, and in the fall for winter annual broadleaf weed control.

Broadcast Application Rates (Warm Season Turfgrasses)

Use Area	Surflan XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb./acre)
	(lb./acre)	(lb./1,000 sq. ft.)		
All regions	100	2.3	2	200
	150	3.4	3	300

1. Summer Annual Grasses and Broadleaf Weeds

Single Application Program: Apply 150 pounds per acre of Surflan XL 2G in late winter or early spring, prior to the onset of conditions favorable for summer annual weed germination.

Split Application Program: As an alternative to a single application program, Surflan XL 2G 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 100 pounds per acre of Surflan XL 2G in an initial application, followed by a second application of 100 pounds per acre 8 to 10 weeks later.

The second treatment of the split application may follow application of a different preemergence grass herbicide in place of the initial Surflan XL 2G application.

2. Winter Annual Broadleaf Weeds

Apply Surflan XL 2G as a preemergence treatment in late summer or early fall, prior to the expected germination period for winter annual broadleaf weeds. Do not apply Surflan XL 2G to areas where fall overseeding will occur.

Application Directions

Apply Surflan XL 2G 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 granular herbicides. More uniform application may be achieved by spreading half the required amount of product over the area and then applying the remaining half in swaths at right angles to the first application. Calibrate application equipment prior to use, according to manufacturer's directions. Check equipment frequently to make sure it is working properly and distributing granules uniformly.

Reseeding

Herbicides that control annual weeds may also affect establishment of desirable turfgrass seedlings. Reseeding should be delayed for at least 6 weeks following application of Surflan XL 2G at the 100 pounds per acre rate. When using Surflan XL 2G at the 150 pounds per acre rate, reseeding should be delayed 12 to 16 weeks after application. 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 Surflan XL 2G use, the seeding rate should be increased and equipment designed to place seed in full contact with soil (such as the Rogers Aero Seeder) should be employed.

Spreader Settings

(A guide for calibrating spreaders to apply Surflan XL 2G in one pass over turf.)

Note: These settings are provided as suggested starting points in calibrating each individual spreader. Since no two spreaders are alike, these settings are intended only as a guide in beginning the calibration process.

Spreader Type	Estimated Spreader Setting Necessary to Apply the Specified Rate of Surflan XL 2G Per Acre In One Pass	
	100 lbs./acre	150 lbs./acre
Cyclone:		
Models B1, 33, 96, BSSB at 200 ft./min.	3 1/4	3 1/2
Model 100 at 200 ft./min.	3 1/4	3 1/2
Model 93 (based on tractor speed of 4 mph)	5	6 1/4
Model 99 (based on tractor speed of 4 mph)	4 3/4	5 3/4 - 6
Model BPI (based on tractor speed of 4 mph)	4 1/2	5 1/4 - 5 1/2
Gandy:		
Model 10A series, 6, 8, 10, 11, 12, 20 and 30 ft. (based on tractor speed of 5 mph)	31	37
Model 10T series, 6, 8, 10, 11, 12, 20 and 30 ft. (based on tractor speed of 5 mph)	33	40
Turf Tender, 24, 30, 42 inch (based on tractor speed of 3 mph)	25	28
600 Series, 2, 4 and 5 ft. (based on tractor speed of 3 mph)	18	22
Lely:		
Model W and H (based on tractor speed of 4.5 mph)	3	4
Lesco:		
Lesco Spreader (Note: set 3rd adjustable hole 1 notch from "open")	D 1/2	F
Scott:		
Rotary Model R-8	H 1/2	I 1/4
Drop Spreader	3 7/8	4 5/8
Spyker:		
Spyker	3.2	3.6
Vicon:		
Model 402 (with seed ring) swath width 20 ft., 5 mph speed	24	28
Warren:		
Model T-7II (based on ground speed of 3.0 mph)	3 1/4	4

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