

XL 2G

GROUP 3 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 berries
- Christmas tree plantations
- Non-cropland
- Non-bearing fruit and nut trees and non-bearing vineyards
- Established tall fescue and warm season turf (including bahiagrass, bermudagrass, buffalograss, centipedegrass, St. Augustinegrass, and zoysiagrass)

ACTIVE INGREDIENTS:

benifin: <i>N</i> -butyl- <i>N</i> -ethyl- <i>a,a,a</i> -trifluoro-2,6-dinitro- <i>p</i> -toluidine	1.0%
oryzalin: 3,5-dinitro- <i>N</i> ⁴ , <i>N</i> ⁴ -dipropylsulfanilamide	1.0%

OTHER INGREDIENTS	98.0%
TOTAL	100.0%

Contains 1 pound active ingredient per 50 pound bag.

KEEP OUT OF REACH OF CHILDREN CAUTION – PRECAUCIÓN

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.)

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the "Directions for Use" section for information about this standard.

Refer to back panel of bag for additional precautionary information including Personal Protective Equipment (PPE). Refer to label booklet in pocket of bag for Directions for Use including Storage and Disposal.

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.

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

AD 022610

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

Specialty Herbicide

EPA Reg. No. 70506-45-38167

EPA Est. No. 5905-IA-001

NET WEIGHT: 50 Lbs. (22.68 kg)

MANUFACTURED FOR
SETRE CHEMICAL COMPANY
 225 SCHILLING BOULEVARD, SUITE 300 • COLLIERVILLE, TENNESSEE 38017

OPM #110352



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**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.

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.

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 sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

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 **XL 2G** prior to germination of target weeds or immediately after cultivation. Length of weed control will vary with rate of **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.

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 **XL 2G**. If rainfall or irrigation has not occurred within 21 days of application and tillage is possible, **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 **XL 2G** may result in erratic weed control. Do not apply when wind conditions favor drift of **XL 2G** granules from the target area.

Users who wish to use **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 XL 2G on plant species not recommended on this label.**

APPLICATION DIRECTIONS

Apply **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 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

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 **XL 2G** prior to germination of target weeds, or immediately after cultivation.

Broadcast Application Rates:

Labeled Use Site	XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
	(lb/acre)	(lb/1,000 sq ft)		
<ul style="list-style-type: none"> • Landscape Ornamentals • Field-grown and container-grown ornamentals 	200	4.6	2	400
	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 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 **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 lb/acre rate of **XL 2G** or crop injury may occur. After the ice plant is well established, a second application may be made.

†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.

Unlisted plant species: Users who wish to use **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 XL 2G on plant species not recommended on this label.**



WEEDS CONTROLLED OR SUPPRESSED BY XL 2G

Weeds controlled when 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

barley, little
barnyardgrass
bluegrass, annual
crabgrass
crowfootgrass
cupgrass, southwestern
foxtail
goosegrass
johnsongrass (seedling only)
junglerice
lovegrass, Mexican

Scientific Name

Hordeum pusillum
Echinochloa crus-galli
Poa annua
Digitaria spp.
Dactyloctenium aegyptium
Eriochloa gracilis
Setaria spp.
Eleusine indica
Sorghum halepense
Echinochloa colonum
Eragrostis mexicana

Common Name

lovegrass, orcutt
oat, wild
panicum, browntop
panicum, fall
panicum, Texas
ryegrass, Italian
sandbur, field
signalgrass
sprangletop, red
witchgrass

Scientific Name

Eragrostis orcuttiana
Avena fatua
Panicum fasciculatum
Panicum dichotomiflorum
Panicum texanum
Lolium multiflorum
Cenchrus incertus
Brachiaria spp.
Leptochloa filiformis
Panicum capillare

BROADLEAF WEEDS:

Common Name

bittercress
carpetweed
chickweed, common
fiddleneck, coast
filaree, redstem
filaree, whitestem
groundsel, common
henbit
knotweed, prostrate
lambsquarters, common

Scientific Name

Cardamine oligosperma
Mollugo verticillata
Stellaria media
Amsinckia intermedia
Erodium cicutarium
Erodium moschatum
Senecio vulgaris
Lamium amplexicaule
Polygonum aviculare
Chenopodium album

pigweed
puncturevine
purslane, common
pusley, Florida
rocket, London
rockpurslane, desert
shepherdspurse
spurge, prostrate
woodsorrel, yellow

Amaranthus spp.
Tribulus terrestris
Portulaca oleracea
Richardia scabra
Sisymbrium irio
Calandrinia ciliata
Capsella bursa-pastoris
Euphorbia humistrata
Oxalis stricta

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

horseweed
ladysthumb
lettuce, prickly
mallow, common
milkweed, climbing
morningglory
mustard, black
mustard, wild

Scientific Name

Conyza canadensis
Polygonum persicaria
Lactuca serriola
Malva neglecta
Sarcostemma cynanchoides
Ipomoea spp.
Brassica nigra
Brassica kaber

Common Name

nightshade, black
ragweed, common
smartweed
sowthistle, annual
spurge, spotted
teaweed (prickly sida)
velvetleaf
wheat, volunteer

Scientific Name

Solanum nigrum
Ambrosia artemisiifolia
Polygonum pensylvanicum
Sonchus oleraceus
Euphorbia maculata
Sida spinosa
Abutilon theophrasti
Triticum spp.



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

TREES

<u>Scientific Name</u>	<u>Common Name</u>	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
	maple	F
<i>Acer spp.</i>	Queen palm	F
<i>Arecastrum romanzoffianum</i>	Paper birch	F
<i>Betula papyrifera</i>	River birch	F
<i>Betula nigra</i>	White birch	F
<i>Betula pendula</i>	Black olive	F
<i>Bucida buceras</i>	Carob	F
<i>Ceratonia siliqua</i>	Blue palo verde	F
<i>Cercidium floridum</i>	Redbud	C,F
<i>Cercis canadensis</i>	Lawson falsecypress	F
<i>Chamaecyparis lawsoniana</i>	Fillicoides-fernspray cypress	F
<i>Chamaecyparis obtusa</i> spp.	Gracilis-slender Hinoki cypress	F
	Sawara-false cypress	F
<i>Chamaecyparis pisifera</i>	Squarrosa-moss cypress	F
	Cat palm	F
<i>Chamaedorea cataractarum</i>	Palm	F
<i>Chamaedorea costaricana</i>	Parlor palm	F
<i>Chamaedorea elegans</i>	Flowering dogwood	F
<i>Cornus florida</i>	Carrot wood	F
<i>Crupaniopsis anacardioides</i>	Japanese cryptomeria	C,F
<i>Cryptomeria japonica</i>	Arizona cypress	C,F
<i>Cupressus glabra</i>	Italian cypress	C,F
<i>Cupressus sempervirens</i>		

TREES (cont.)**Scientific Name**

Elaeagnus angustifolia
Eucalyptus cinerea

Eucalyptus camaldulensis

Eucalyptus nicholii

Eucalyptus sideroxylon

Ficus benjamina

Fraxinus spp.

Ginkgo biloba

Gleditsia triacanthos

Heteromeles arbutiflora

Juniperus virginiana

Kalmia latifolia

Koeleruteria paniculata

Liquidambar styraciflua

Magnolia grandiflora

Malus spp.

Morus alba

Olea euripaea

Picea abies

Picea engelmanni

Picea glauca

Picea mariana

Picea pungens spp.

Pinus spp.

Platanus occidentalis

Platanus racemosa

Podocarpus spp.

Populus deltoides

Prunus caroliniana

Prunus laurocerasus

Prunus mahaleb

Prunus yedoensis

Common Name

Russian olive

Mealy eucalyptus

Silver dollar eucalyptus

Red gum eucalyptus

Narrow-leaved eucalyptus

Red ironbark eucalyptus

Ficus

Ash

Maidenhair tree

Honey locust

Toyon

Eastern redcedar

Mountain laurel

goldenrain tree

American sweet gum

Southern magnolia

Crabapple

White mulberry

Olive

Norway spruce

Engelmann spruce

Conica-dwarf Alberta spruce

White spruce

Black spruce

Glauca-Colorado blue spruce

Hoopsii-Hoop's blue spruce

Koster-Koster blue spruce

Pine

American sycamore

California sycamore

Podocarpus

Cottonwood

Carolina laurelcherry

English laurelcherry

Mahaleb cherry

Yoshino flowering cherry

Recommended Treatment Method:

C = Container Grown

F = Field Grown

C,F

F

F

F

F

F

F

F

C,F

F

F

F

F

F

C,F

F

F

F

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F

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F

F

F

F

F

C,F

F

F

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F

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F

F

F

ORNAMENTAL SHRUBS (cont.)**Scientific Name**

Euonymus kiautschovica
Fatsyhedera lizei
Forsythia intermedia
Gardenia jasminoides
Genista pilosa
Hibiscus rosa-sinensis

Hibiscus syriacus

Hypericum spp.
Ilex aquifolium

Ilex aquipernyi
Ilex cornuta

Ilex crenata

Ilex glabra
Ilex meserveae

Ilex vomitoria

Juniperus spp.
Justicia brandegeana
Justicia spicigera
Lagerstroemia indica
Leucothoe axillaris
Leucothoe fontanesiana
Ligustrum amurense
Ligustrum japonicum

Common Name

Spreading euonymus
 Fatsyhedera
 Forsythia
 Gardenia
 Woadwaxen
 Chinese hibiscus
 Ross Estey hibiscus
 Rose of Sharon, Red Bird
 Rose of Sharon, Red Heart
 Rose of Sharon, Woodbridge
 St. Johnswort
 Balkans holly
 English holly
 Gold coast holly
 San Jose holly
 Chinese holly
 Dwarf burford holly
 Convexa holly
 Compacta-dwarf Japanese holly
 Helleri-Heller's Japanese holly
 Japanese holly
 Nordica-inkberry holly
 Blue girl holly
 Blue boy holly
 Ebony magic holly
 Nana-dwarf yaupon holly
 Pendula-weeping yaupon holly
 Yaupon holly
 Juniper
 Shrimp plant
 Mexican honeysuckle
 Grape myrtle
 Coast leucothoe
 Drooping leucothoe
 Amur privet
 Japanese privet
 Yellow tip ligustrum

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

F
 C,F
 F
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 F
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 C,F

ORNAMENTAL SHRUBS (cont.)**Scientific Name***Ligustrum texanum**Ligustrum lucidum**Ligustrum ovalifolium**Ligustrum vicaryi**Lonicera fragrantissima**Lonicera periclymenum**Lonicera sempervirens**Mahonia aquifolium**Myoporum parvifolium**Myrtus communis**Nandina domestica**Nerium oleander**Osmanthus heterophyllus**Pachysandra terminalis**Philadelphus* spp.*Phoenix roebelenii**Photinia fraseri**Picea abies**Pieris japonica**Pittosporum* spp.*Platycladus orientalis**Plumbago ariculata***Common Name**

Wax leaf privet

Howardi privet

Glossy privet

California privet

Vicary golden privet

Chinese fountain palm

Winter honeysuckle

Flowering woodbine

Serotina woodbine

Trumpet honeysuckle

Oregon grape

Prostrate myoporum

True myrtle

Compacta-dwarf heavenly bamboo

Harbour-dwarf heavenly bamboo

Heavenly bamboo

Nana compacta- heavenly bamboo

Nana purpurea-heavenly bamboo

Woods-dwarf heavenly bamboo

Hardy red oleander

Oleander

Ruby lace oleander

Holly-leaf osmanthus

Japanese spurge

Mockorange

Pygmy date palm

Fraser's photinia

Repens-spreading Norway spruce

Pendula-weeping Norway spruce

Andromeda

Lily-of-the-valley

Snowdrift

Temple bells lily-of-the-valley

Valley rose lily-of-the-valley

Pittosporum

Oriental arborvitae

Blue cape plumbago

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

F

F

C,F

F

C,F

F

F

F

F

F

F

F

C,F

C,F

C,F

C,F

C,F

C,F

C,F

C,F

C,F

C,F

F

F

C,F

F

C,F

F

F

C,F

F

F

F

F

C,F

C,F

F

ORNAMENTAL SHRUBS (cont.)**Scientific Name**

Trachelospermum jasminoides
Veitchia merillii
Viburnum davidii
Viburnum japonicum
Viburnum opulus sterile
Viburnum plicatum tomentosum
Viburnum x pragense
Viburnum setigerum
Viburnum suspensum
Viburnum tinus

Viburnum trilobum
Weigela florida

Xylosma congestum
Yucca elata
Yucca recurvifolia

Common Name

Chinese star jasmine
 Christmas palm
 David viburnum
 Viburnum
 Eastern snowball viburnum
 Doublefile viburnum
 Viburnum
 Tea viburnum
 Sandankwa viburnum
 Compactum-spring bouquet viburnum
 Laurastinus viburnum
 Compactum-dwarf cranberry bush
 Java red weigela
 Bristol ruby weigela
 Minuet weigela
 Xylosma
 Soap tree yucca
 Pendulous yucca

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

F
 F
 F
 F
 F
 F
 F
 F
 F
 F
 C,F
 F
 F
 F
 F
 F
 C,F
 F

GROUND COVERS**Scientific Name**

Agapanthus africanus
Ajuga spp.
Arctotheca calendula
Campanula elatines
Carpobrotus edulis
Clytostoma callistegioides
Cortaderia selloana
Delosperma alba
Drosanthemum floribundum
Festuca ovina
Gazania spp.
Hedera canariensis
Hedera helix

Common Name

Lily-of-the-Nile
 Carpet bugle
 Cape weed
 Bellflower
 Largeleaf iceplant
 Violet trumpet vine
 Pampas grass
 White iceplant
 Trailing rosea iceplant
 Blue fescue
 Gazania
 Algerian ivy
 English ivy

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

C,F
 F
 F
 C,F
 F
 C,F
 F
 F
 F
 F
 F
 F
 F
 F

GROUND COVERS (cont.)**Scientific Name**

Hemerocallis spp.
Hosta spp.
Hypericum spp.
Lampranthus spectabilis
Liriope gigantea
Liriope muscari

Lonicera japonica
Mesembryanthemum crystallinum
Ophiopogon japonicus
Osteospermum fruticosum
Sedum brevifolium
Trachelospermum jasminoides
Vinca major
Vinca minor

Common Name

Daylily
 Plantain lily
 St. Johnswort
 Red trailing iceplant
 White lily turf
 Big blue lily turf
 Lilac beauty lily turf
 Majestic lily turf
 Monroe white lily turf
 Silvery sunproof lily turf
 Variegated liriope lily turf
 Japanese honeysuckle
 Ice plant
 Mondo grass
 Trailing African daisy
 Stonecrop
 Chinese star jasmine
 Bigleaf periwinkle
 Dwarf periwinkle

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

C,F
 C,F
 F
 F
 F
 C,F
 C,F
 C,F
 C,F
 C,F
 C,F
 C,F
 F
 F
 F
 F
 F
 F
 F

ESTABLISHED FLOWERS**Scientific Name**

Achillea spp.
Antirrhinum majus
Caladium bicolor
Chrysanthemum coccineum
Chrysanthemum maximum
Chrysanthemum morifolium
Coreopsis lanceolata
Dianthus barbatus
Dicentra spectabilis
Dimorphotheca spp.
Echinacea purpurea
Geum quellyon

Common Name

Yarrow
 Snapdragon
 Fancy-leaved caladium
 Painted daisy
 Shasta daisy
 Chrysanthemum
 Coreopsis
 Sweet william
 Bleeding heart
 Cape marigold
 Purple coneflower
 Geum

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

F
 F
 F
 F
 F
 F
 F
 F
 F
 F
 C,F
 F
 F
 F

ESTABLISHED FLOWERS (cont.)**Scientific Name**

Gladiolus hortulanus
Gypsophila paniculata
Impatiens wallerana
Iris spp.
Liatris spicata
Pelargonium hortorum
Petunia spp.
Portulaca grandiflora
Ranunculus asiaticus
Rosa spp.
Rudbeckia hirta
Salvia spp.
Stokesia laevis
Strelitzia reginae
Tagetes spp.
Viola wittrockiana
Zinnia elegans

Common Name

Gladiolus
 Baby's breath
 Impatiens
 Bearded iris
 Blazing star
 Geranium
 Petunia
 Rose moss
 Persian ranunculus
 Rose
 Gloriosa daisy/black-eyed susan
 Sage
 Stokes aster
 Bird of paradise
 Marigold
 Pansy
 Common zinnia

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

F
 F
 F
 F
 C,F
 F
 F
 F
 F
 F
 F
 F
 F
 F
 F
 F

NON-BEARING FRUIT AND NUT TREES AND NON-BEARING VINEYARDS †**Recommended Treatment Method:****C = Container Grown****F = Field Grown****Common Name**

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

Common Name

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

Recommended Treatment Method:**C = Container Grown****F = Field Grown**

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

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

XL 2G may be applied for annual weed control in ornamental bulbs such as bulbous iris, daffodil (*narcissus*), hyacinth, and tulip. Apply **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. **XL 2G** may also be applied following bulb emergence. For fall-planted bulbs, apply **XL 2G** again in late winter or early spring to weed-free soil surfaces.

Broadcast Application Rates

Time of Application	Soil Texture	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 **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	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
	(lb/acre)	(lb/1,000 sq ft)	(months)	(lb/acre)
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.

**NON-CROPLAND AREAS: INDUSTRIAL SITES, UTILITY SUBSTATIONS,
HIGHWAY GUARDRAILS, SIGN POSTS, AND DELINEATORS**

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 **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	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
	(lb/acre)	(lb/1,000 sq ft)	(months)	(lb/acre)
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

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 **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 **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."

XL 2G will not control emerged weeds.

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

Do not apply **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 **XL 2G** at 100 pounds per acre approximately eight weeks later (Round 2).

XL 2G may thin established annual bluegrass (*Poa annua*) at rates above 100 pounds per acre.

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

WEEDS CONTROLLED OR SUPPRESSED BY XL 2G

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

ANNUAL GRASSES

Summer Annuals:

Common Name

barnyardgrass
crabgrass
crowfootgrass
foxtail

Scientific Name

Echinochloa crus-galli
Digitaria spp.
Dactyloctenium aegyptium
Setaria spp.

Common Name

goosegrass
johnsongrass (seedling only)
ryegrass, Italian
sandbur, field

Scientific Name

Eleusine indica
Sorghum halepense
Lolium multiflorum
Cenchrus incertus

Winter Annuals:

Common Name

bluegrass, annual

Scientific Name

Poa annua

BROADLEAF WEEDS

Summer Annuals:

Common Name

carpetweed
knotweed, prostrate

Scientific Name

Mollugo verticillata
Polygonum aviculare

Common Name

purslane, common

Scientific Name

Portulaca oleracea

Winter Annuals:

Common Name

chickweed, common

Scientific Name

Stellaria media

Common Name

henbit

Scientific Name

Lamium amplexicaule



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

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

Application Rates, Frequency, and Timing of Applications

XL 2G 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.

Broadcast Application Rates (Warm Season Turfgrasses)

Use Area	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
	(lb/acre)	(lb/1,000 sq ft)	(months)	(lb/acre)
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 **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, **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 **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 **XL 2G** application.

2. Annual Bluegrass and Winter Annual Broadleaf Weeds

Apply **XL 2G** as a preemergence treatment in late summer or early fall, prior to the expected germination period for annual bluegrass and winter annual broadleaf weeds. Do not apply **XL 2G** to areas where fall overseeding will occur. If annual bluegrass infestation is severe and its elimination will result in thinning of turfgrass cover, apply **XL 2G** at 100 pounds per acre. If thinning of turfgrass cover is not a potential problem, **XL 2G** may be applied at 150 pounds per acre.

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

Application Directions

Apply **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 **XL 2G** at the 100 pound per acre rate. When using **XL 2G** at the 150 pound 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 **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 **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 XL 2G Per Acre In One Pass	
	100 lb/acre	150 lb/acre
Cyclone: Models B1, 33, 96, BSSB at 200 ft/min. Model 100 at 200 ft/min. Model 93 (based on tractor speed of 4 mph) Model 99 (based on tractor speed of 4 mph) Model BPI (based on tractor speed of 4 mph)	3-1/4 3-1/4 5 4-3/4 4-1/2	3-1/2 3-1/2 6-1/4 5/3 - 4-6 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) Model 10T series, 6, 8, 10, 11, 12, 20 and 30 ft (based on tractor speed of 5 mph) Turf Tender, 24, 30, 42 inch (based on tractor speed of 3 mph) 600 Series, 2, 4 and 5 ft (based on tractor speed of 3 mph)	31 33 25 18	37 40 28 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 Drop Spreader	H 1/2 3-7/8	1 1/4 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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READ BEFORE USING PRODUCT

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EPA Approved 8-17-2009



