

2009

SPECIMEN LABEL

XL 2G

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 , α -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%
Inert Ingredients	98.0%
Total	100.0%

Contains 1 pound active ingredient per 50 pound bag

Keep Out of Reach of Children

CAUTION PRECAUTION

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 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 Conditions Of Sale - Limited Warranty And Limitations Of Liability And Remedies At End Of Label Booklet. If Terms Are Unacceptable, Return At Once Unopened.**

For 24 hour emergency medical assistance, call the National Pesticide Information Center 1-800-858-7378. For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

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

EPA Reg. No. 70506-45-AA-38167

EPA Est. No. 82952-IA-001

Specialty Herbicide

Net Wt. ___ lb

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

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SPECIMEN LABEL

Table of Contents	Page
Precautionary Statements	
Hazards to Humans and Domestic Animals	
Personal Protective Equipment	
Use Safety Recommendations	
First Aid	
Environmental Hazards	
Directions for Use	
Agricultural Use Requirements	
Storage and Disposal	
General Information	
General Use Precautions	
Application Directions	
Application Techniques for Applying XL 2G	
Approved Uses	
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,	
and Non-cropland	
Special Use Precautions	
Weeds Controlled or Suppressed by XL 2G	
Ornamental Plant Species	
Trees	
Ornamental Shrubs	
Ground Covers	
Established Flowers	
Ornamental Bulbs	
Special Use Precautions	
Non-bearing Fruit and Nut Trees and Non-bearing Vineyards	
Non-bearing Berries	
Christmas Tree Plantations	
Non-cropland Areas	
Tall Fescue and Warm Season Turfgrasses	
Special Use Precautions	
Weeds Controlled or Suppressed by XL 2G	
Application Rates, Frequency and Timing of Applications	
Application Directions	
Reseeding	
Spreader Settings	
Conditions Of Sale - Limited Warranty	
And Limitations Of Liability And Remedies	

SPECIMEN LABEL

Precautionary Statements

Hazards to Humans and Domestic Animals

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
- Shoes plus socks

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. 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. You may also contact 1-800-992-5994 for emergency medical treatment information.

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. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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

Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain

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circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

- Coveralls
- Chemical-resistant gloves, such as butyl rubber >11 mils; or natural rubber >14 mils; or neoprene rubber >14 mils; or nitrile rubber > mils.
- Shoes plus socks

Non-Agricultural Use Requirements

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

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

Storage and Disposal

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

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: Completely empty bag into application equipment. Then 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

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.

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. 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**

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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/1000 sq ft)		
• Landscape Ornamentals	200	4.6	2	800
• Field-grown and container-grown ornamentals	300	6.9	4	900

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.
- 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.

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- 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 1000 sq ft).

Annual Grasses:

Common Name	Scientific Name
barley, little	<i>Hordeum pusillum</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
bluegrass, annual	<i>Poa annua</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>

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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 1000 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 pennsylvanicum</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.

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

Trees

<u>Scientific Name/Common Name</u>	<u>Recommended Treatment Method:</u> 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

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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>Ceratonía 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
<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

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<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 europaea</i>	
Olive	F
<i>Picea abies</i>	
Norway spruce	F
<i>Picea engelmanni</i>	
Engelmann spruce	F
<i>Picea glauca</i>	
Conica-dwarf Alberta spruce	F
White spruce	F
<i>Picea mariana</i>	
Black spruce	F
<i>Picea pungens</i> spp.	
Glaucous-Colorado blue spruce	F
Hoopii-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>	

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Coast redwood
Swietenia mahogani
 Mahogany
Tabebuia caraiba
 Yellow tab
Tilia cordata
 Littleleaf linden
Thuja plicata
 Western redcedar
Ulmus parvifolia
 Chinese Elm
Umbellularia californica
 California laurel
Washingtonia robusta
 Mexican fan palm

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F
 F
 F
 C,F
 F
 F
 F
 F
 F

Ornamental Shrubs

Scientific Name/Common Name

Abelia grandiflora
 Glossy abelia
Acacia redolens
 Prostrate acacia
Agave americana
 Century plant
Agave macroculmis
 Agave
Arctostaphylos stanfordiana
 Stanford manzanita
Astilbe chinensis
 False spirea
Baccharis pilularis
 Coyotebush
Berberis thunbergii
 Atropurea-Redleaf Japanese barberry
 Aurea golden Japanese barberry
 Crimson pygmy barberry
Bougainvillea spp.
 Barbara Karst
 California Gold
 Scarlet O'Hara
 Texas Dawn
Buxus microphylla
 Japonica-Japanese boxwood
 Littleleaf boxwood
Buxus sempervirens
 Common boxwood
Callistemon citrinus
 Lemon bottlebrush
Ceanothus spp.
 Wild lilac
Chamaecyparis obtusa spp.
 Kosteri cypress
 Nana-dwarf Hinoki cypress
 Torulosa cypress
Chamaecyparis pisifera
 Filifera-thread cypress
 Squarrosa minima-dwarf moss cypress
Chrysalidocarpus lutescens

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

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

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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
<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

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SPECIMEN LABEL

<i>Genista pilosa</i>	
Woadwaxen	F
<i>Hibiscus rosa-sinensis</i>	
Chinese hibiscus	F
Ross Estey hibiscus	F
<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
<i>Ligustrum vicaryi</i>	
Vicary golden privet	C,F

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SPECIMEN LABEL

<i>Livistona chinensis</i>	
Chinese fountain palm	F
<i>Lonicera fragrantissima</i>	
Winter honeysuckle	F
<i>Lonicera periclymenum</i>	
Flowering woodbine	F
Serotina woodbine	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	C,F
Harbour-dwarf heavenly bamboo	C,F
Heavenly bamboo	C,F
Nana compacta- heavenly bamboo	C,F
Nana purpurea-heavenly bamboo	C,F
Woods-dwarf heavenly bamboo	C,F
<i>Nerium oleander</i>	
Hardy red oleander	C,F
Oleander	C,F
Ruby lace oleander	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	F
Pendula-weeping Norway spruce	F
<i>Pieris japonica</i>	
Andromeda	C,F
Lily-of-the-valley	F
Snowdrift	F
Temple bells lily-of-the-valley	F
Valley rose lily-of-the-valley	F
<i>Pittosporum</i> spp.	
Pittosporum	C,F
<i>Platycladus orientalis</i>	
Oriental arborvitae	C,F
<i>Plumbago ariculata</i>	
Blue cape plumbago	F
<i>Podocarpus macrophyllus</i>	
Yewpine	C,F
<i>Potentilla fragiformis</i>	
Cinquefoil	F
<i>Potentilla fruticosa</i>	
Cinquefoil	C,F
<i>Protea neriifolia</i>	
Protea	F
<i>Pyracantha coccinea</i>	
Scarlet forethorn	C,F

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SPECIMEN LABEL

<i>Pyracantha fortuneana</i>	
Lalendel Monrovia pyracantha	C,F
Monon pyracantha	C,F
Red elf hybrid pyracantha	C,F
Rutgers hybrid pyracantha	C,F
Santa Cruz pyracantha	C,F
Victory pyracantha	C,F
<i>Pyracantha skoidzumi</i>	
Formosa firethorn	C,F
<i>Raphiolepis indica</i>	
Enchantress-Moness raphiolepis	F
India hawthorn	C,F
Springtime-Monme raphiolepis	F
<i>Raphiolepis ovata</i>	
Round-leaf raphiolepis	F
<i>Rhipsalidopsis gaetneri</i>	
Easter cactus	C,F
<i>Rhododendron</i> spp.	
Azalea	C,F
Rhododendron	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	F
Emerald arborvitae	F
Globosa-globe arborvitae	F
Little Giant-dwarf arborvitae	F
Nigra-dark American arborvitae	F
Pyramidalis arborvitae	F
Rheingold arborvitae	F
Woodwardii arborvitae	F
<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 merillii</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 pragensense</i>	

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	SPECIMEN LABEL
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

<u>Scientific Name/Common Name</u>	<u>Recommended Treatment Method:</u> 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
<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>	

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SPECIMEN LABEL	
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

Recommended Treatment Method: C = Container Grown F = Field Grown	
<u>Scientific Name/Common Name</u>	
<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.	

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	SPECIMEN LABEL
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
<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

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SPECIMEN LABEL

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.

Non-bearing Berries †

Common Name	Recommended Treatment Method: C = Container Grown F = Field Grown
Blackberry	F
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.

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/1000 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

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SPECIMEN LABEL

Length of Control	XL 2G		Minimum Time Between Applications (months)	Total Amount Allowed Per Year (lb/acre)
	(lb/acre)	(lb/1000 sq ft)		
2 - 4 months	200	4.6	2	800
4 - 8 months	400	9.2	2	800

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

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 (months)	Total Amount Allowed Per Year (lb/acre)
	(lb/acre)	(lb/1000 sq ft)		
2 - 4 months	200	4.6	2	600
4 - 8 months	400	9.2	4	1200
8 - 12 months	600	13.8	8	1200

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 within 21 days of 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.

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.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SPECIMEN LABEL

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 to 80 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/1000 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	<i>Sorghum halepense</i>
(seedling only)	
ryegrass, Italian	<i>Lolium multiflorum</i>
sandbur, field	<i>Cenchrus incertus</i>

Winter Annuals:

Common Name	Scientific Name
bluegrass, annual	<i>Poa annua</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 lb/acre (2.3 to 3.4 lb/1000 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

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)

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SPECIMEN LABEL

Use Area	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
All, except	100	2.3	2	400
Florida	150	3.4	3	600
Florida	100	2.3	3	400
	150	3.4	3	450

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).

Weed Control in Florida

In Florida, apply 150 pounds per acre of **XL 2G** three times per year, or every 90 to 100 days, in the fall, early spring, and early summer. Do not apply more than 150 pounds per acre of **XL 2G** in any single application.

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

Disclaimer: Always refer to the label on the product before using Helena or any other product.

SPECIMEN LABEL

(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	I 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

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which

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SPECIMEN LABEL

are beyond the control of Setre Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Setre Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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EFFECTIVE 12/15/95

MATERIAL SAFETY DATA SHEET

SETRE CHEMICAL COMPANY

PH: 901-761-0050

PRODUCT: XL* 2G

CHEMTREC 800-424-93

PAGE

I. IDENTIFICATION

CHEMICAL NAME	BENEFIN & ORYZALIN
CHEMICAL FAMILY	HERBICIDES
FORMULA	NOT APPLICABLE, FORMULATED MIXTURE.
SYNONYMS	NONE
CAS NUMBER	SEE INGREDIENT STATEMENT, SECTION III.
EPA REGISTRY NO.	62719-136-38167

II. PHYSICAL DATA

BOILING POINT	NOT APPLICABLE
FREEZING POINT	NOT APPLICABLE
SPECIFIC GRAVITY	NOT DETERMINED
VAPOR PRESSURE	NOT APPLICABLE
VAPOR DENSITY	NOT APPLICABLE
SOLUBILITY IN WATER	NOT SOLUBLE
PER CENT VOLATILES	NOT APPLICABLE
EVAPORATION RATE	NOT APPLICABLE
MELTING POINT	NOT APPLICABLE
APPEARANCE & ODOR	LIGHT ORANGE GRANULE, AROMATIC ODOR.

III. INGREDIENTS

MATERIAL	CAS NUMBER	%	TLV (UNITS)	HAZARD
BENEFIN	01861-40-1	1.00	NOT ESTABLISHED	EYE & SKIN IRRITANT
ORYZALIN	19044-88-3	1.00	NOT ESTABLISHED	EYE & SKIN IRRITANT
OTHER INGREDIENTS INCLUDING CLAY	08031-18-3	98.00	15 MG/KG	NUISANCE DUSTS

XL* 2G TRADEMARK OF DOWELANCO

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	:	NOT APPLICABLE
AUTOIGNITION TEMPERATURE	:	NOT APPLICABLE
FLAMMABLE LIMITS	:	NOT APPLICABLE

EXTINGUISHING MEDIA:

- USE WATER, CARBON DIOXIDE, OR DRY CHEMICALS.

SPECIAL FIRE FIGHTING PROCEDURES:

- WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND
- FULL PROTECTIVE CLOTHING. DIKE AREA TO PREVENT PESTICIDE RUNOFF.
- CONDUCT FIRE FIGHTING AND RESCUE OPERATIONS FROM UPWIND OF FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

- VAPORS AND FUMES FROM FIRE ARE HAZARDOUS. ISOLATE AREA UNTIL
- VAPORS OR FUMES HAVE DISPERSED.

SETRE CHEMICAL COMPANY

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MEMPHIS, TN 38119

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MATERIAL SAFETY DATA SHEET

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PRODUCT: XL* 26

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PAGE

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V. HEALTH HAZARD

-CARCINOGENICITY INFORMATION: NOT LISTED AS A CARCINOGEN

-ACUTE EFFECTS OF OVEREXPOSURE

SWALLOWING:

- THE ACUTE ORAL LD50, RAT, 3750 MG/KG, NO DEATHS, LEG WEAKNESS.

SKIN ABSORPTION:

- THE ACUTE DERMAL LD50, RABBIT, 2000 MG/KG, NO DEATHS OR TOXICITY,
- SLIGHT IRRITANT.

INHALATION:

- THIS FORMULATION IS NOT CONSIDERED TO BE AN INHALATION HAZARD
- DUE TO COARSE GRANULAR AND LOW POTENTIAL FOR AEROSOLIZATION.

SKIN CONTACT:

- MAY CAUSE SLIGHT IRRITATION.

EYE CONTACT:

- PRODUCT WILL IRRITATE THE EYES.

CHRONIC EFFECTS:

- NAUSEA, HEADACHE, RASH, EYE IRRITATION, AND DYSPNEA.

OTHER HEALTH HAZARD:

- NONE CURRENTLY KNOWN.

EMERGENCY AND FIRST AID PROCEDURES

SWALLOWING:

- DRINK 1 OR 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING
- BACK OF THROAT WITH FINGER. CALL A PHYSICIAN OR POISON CONTROL
- CENTER. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN:

- WASH ALL EXPOSED AREAS WITH SOAP AND WATER. WASH CLOTHING BEFORE
- REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

- IF DISCOMFORT OCCURS, MOVE INDIVIDUAL TO FRESH AIR. GET MEDICAL
- ATTENTION IF BREATHING DIFFICULTY OCCURS.

EYES:

- IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, HOLDING EYELIDS
- GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

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PRODUCT: XL* 20

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PAGE

V. HEALTH HAZARD - NOTES TO PHYSICIAN

- IN THE EVENT OF AN ADVERSE RESPONSE, TREATMENT SHOULD BE DIRECTED TOWARD
- CONTROL OF THE SYMPTOMS.

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SAN DIEGO, CA fax: (619) 262-3659

VI. REACTIVITY DATA

STABILITY STABLE
CONDITIONS TO AVOID NONE CURRENTLY KNOWN.

POLYMERIZATION WILL NOT OCCUR
CONDITIONS TO AVOID NONE CURRENTLY KNOWN.

INCOMPATIBILITY
MATERIALS NONE CURRENTLY KNOWN.

HAZARDOUS
COMBUSTION PRODUCT WILL EMIT TOXIC VAPORS AS IT BURNS.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

- CONTAIN AND SWEEP UP MATERIAL, PLACE IN A RECOVERY DRUM FOR PROPER DISPOSAL.
- LARGE SPILLS REPORT TO CHEMTREC, 800/424-9300 OR SETRE CHEMICAL COMPANY,
- 901/761-0050 FOR ASSISTANCE. PREVENT RUNOFF.

WASTE DISPOSAL METHOD

- THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL
- PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATION : IN ENCLOSED SPACES, USE NIOSH APPROVED DUST RESPIRATOR.

VENTILATION : GOOD GENERAL VENTILATION SUFFICIENT IN MOST CONDITIONS.

GLOVES : IMPERVIOUS GLOVES

EYES : CHEMICAL WORKERS GOGGLES.

OTHERS : EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

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PRODUCT: XL* 25

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PAGE

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

- KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER
- MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE
- WATER SUPPLIES, LAKES, STREAMS, OR PONDS.

OTHER PRECAUTIONS

- RCRA HAZARDOUS WASTE NUMBER:----- NOT LISTED
- SARA TITLE III, SECTION 313:----- NOT LISTED
- SARA THRESHOLD PLANNING QUANTITY:----- NOT LISTED
- CERCLA REPORTABLE QUANTITY:----- NOT LISTED
- 49 CFR 172.101, APPENDIX A:----- NOT LISTED
- 49 CFR 172.101, APPENDIX B:----- NOT LISTED

X. SHIPPING INFORMATION

D.O.T. DATA - PROPER SHIPPING NAME:

- NOT REGULATED BY DOT, IATA OR IMDG.

HAZARD CLASS : NONE

IDENTIFICATION NO.: NONE

LABELS REQUIRED : NONE

PLACARDING : NONE

FREIGHT CLASSIFICATION:

- COMPOUND, WEED KILLING, SOLID,
- (HERBICIDES), N.O.I. (NMFC ITEM 50220, CLASS 55)

..CHEMICAL NAME EQUIVALENT R.C.
NOT APPLICABLE NOT APPLICABLE

I. GENERAL PRODUCT INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION RATING:

(RATING LEVEL: 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-MINIMUM)

HEALTH: 2 FIRE: 1 REACTIVITY: 0

S.A.R.A. TITLE III HAZARD CLASSIFICATION: (YES / NO)

IMMEDIATE (ACUTE) HEALTH	: Y	DELAYED (CHRONIC) HEALTH	: N
SUDDEN RELEASE OF PRESSURE:	N		
FIRE	: N	REACTIVE	: N

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