ST TED STATED	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs	EPA Reg. Number:	Date of Issuance:
NINON MILLING AND A	Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460	5905-556	JUL 14 200
	NOTICE OF PESTICIDE:	Term of Issuance:	
	Registration Reregistration	Name of Pesticide I	Product:
	(under FIFRA, as amended)	Helena XL 2	G
Helena Chemi 225 Schilling J Suite 300 Collierville, T	Blvd	s registration must be subm	itted to and accented by the
Registration Division	prior to use of the label in commerce. In any correspondence on this	product always refer to the	above EPA registration
giving the registrant a	e Act. The acceptance of any name in connection with the registration right to exclusive use of the name or to its use if it has been covered ct is reregistered in accordance with FIFRA 4	by others.	
writing:			you agree in
writing:	te toxicity review, the Hazards to Humans and		
writing: 1) Per the acut to read: "CAUTION Causes moder		d Domestic Anima clothing. Prolong	lls must be revised
 writing: 1) Per the acut to read: "CAUTION Causes moder repeated skin of 2) Per the Ber 	te toxicity review, the Hazards to Humans and attention and attention and attention attention. Avoid contact with eyes or	d Domestic Anima clothing. Prolong individuals."	ils must be revised ged or frequently
 writing: 1) Per the acut to read: "CAUTION Causes moder repeated skin of 2) Per the Ber following Use 	te toxicity review, the Hazards to Humans and ate eye irritation. Avoid contact with eyes or contact may cause allergic reactions in some i nfluralin RED label table, the text in bold typ	d Domestic Anima clothing. Prolong individuals." be below must be a	uls must be revised ged or frequently udded to the
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Page Number 2 EPA Reg. No. 5905-556

4) Per the product chemistry review, the storage and disposal section should be revised to include text that describes and identifies the container as refillable or non-refillable. Additionally, the subheading "Container Disposal" should be changed to "Container Handling."

5) Per the Benfluralin RED, maximum number of applications per year must be added to the label for the following uses:

"Landscape and field grown ornamentals, nonbearing fruit and nuts trees and non-bearing vineyards - maximum of 2 applications per year."

"Ornamental bulbs

Fall Application to Coarse Soils – Maximum of 2 applications per year.

February Through March Applications to All Soils Maximum of 3 applications per year."

"Christmas Tree Plantations – Maximum of 2 applications per year."

"Noncropland Areas – Maximum of 2 applications per year."

6) An error correction was made to the Benfluralin RED rate restrictions for warm and cool season turf. The label may be revised to reflect the restrictions specified below for warm season turf.

"Warm Season Turf:

The maximum application rate is 3 lbs ai per acre per application.

The maximum number of applications is 2 per year.

The maximum annual application rate is 6 lbs ai per acre per year."

For cool season turf, (the label prohibits use on cool season turfgrass species other than tall fescue), the following limitations are currently reflected on the label and comply with the error correction:

"The maximum application rate is 1.5 lbs ai per acre per application. The maximum number of applications is 2 per year. The maximum annual application rate is 3 lbs ai per acre per year."

7) Delete the phrase "General Use". This is an implied safety claim.

Enclosed is a copy of your label stamped "Accepted with Comments". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide and

Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continued reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product. Submit 1 copy of your final printed label before shipment of the product. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e).

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XL 2G /1-3-06

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[Front Panel of Bag]

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: N-butyl-N-ethyl-α,α,α-trifluoro-2,6-

dinitro-p-toluidine	1.0%
oryzalin: 3,5-dinitro-N ⁴ ,N ⁴ -	
dipropylsulfanilamide	1.0%
Inert Ingredients	98.0 <u>%</u>
Total	100.0%
Contains 1 pound active ingredient per 50	pound bag

Keep Out of Reach of ChildrenCAUTIONPRECAUCION

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 <u>the Conditions of Sale and Limitation of Warranty and Liability</u> 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.

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

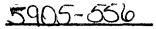
EPA Reg. No. 5905-556

EPA Est.

ACCEPTED with COMMENTS in EPA Letter Dated

JUL 1 4 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.



Manufactured for: Helena Chemical Company 225 Schilling Blvd. Suite 300 Colierville, TN 38017 Specialty Herbicide

Net Wt. __ Ib

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[Back of Bag]

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, 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, 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 National Pesticide Information Center 1-800-858-7378. 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.

[Label Booklet] [Front Cover of Booklet]

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 nonbearing 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: N-butyl-N-ethyl- α , α , α -trifluoro	- 2,6-
dinitro-p-toluidine	1.0%
oryzalin: 3,5-dinitro-N ⁴ ,N ⁴ -	
dipropylsulfanilamide	1.0%
Inert Ingredients	<u>98.0%</u>
Total	100.0%
Contains 1 pound active ingredient per 50	pound bag

Keep Out of Reach of Children CAUTION PRECAUCION

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

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 <u>the Conditions of Sale and Limitation of Warranty and Liability</u> 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.

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

EPA Reg. No. 5905-556

Helena Chemical Company 225 Schilling Blvd. Suite 300

Manufactured for:

EPA Est.

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Collierville, TN 38017

Specialty Herbicide

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Net Wt. __ Ib

[Page 2 of Booklet]

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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, 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, 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 National Pesticide Information Center 1-800-858-7378.

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.

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 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: 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. 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 ½ 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 pushtype 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 Vinevards, 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:

	XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
Labeled Use Site	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
 Landscape Ornamentals Field-grown and container-grown ornamentals 	200 300	4.6 6.9	2 4	400 600

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 turforass 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 Carpobrutus 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

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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 barley, little barnvardorass bluegrass, annual crabgrass crowfootgrass cupgrass, southwestern foxtail goosegrass johnsongrass (seedling only) iunalerice lovegrass. Mexican lovegrass, orcutt oat, wild panicum, browntop panicum, fall panicum, Texas ryegrass. Italian sandbur, field signalgrass sprangletop, red witchgrass

Broadleaf Weeds:

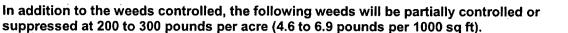
Common Name bittercress carpetweed chickweed, common fiddleneck. coast filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate lambsquarters, common pigweed puncturevine purslane, common pusley, Florida rocket. London rockpurslane, desert shepherdspurse spurge, prostrate woodsorrel, yellow

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

Scientific Name

Cardamine oligosperma Mollugo verticillata Stellaria media Amsinckia intermedia Erodium cicutarium Erodium moschatum Senecio vulgaris Lamium amplexicaule Polygonum aviculare Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisvmbrium irio Calandrinia ciliata Capsella bursa-pastoris Euphorbia humistrata Oxalis stricta

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Common Name

horseweed ladysthumb lettuce, prickly mallow, common milkweed, climbing morningglory mustard, black mustard, wild nightshade, black ragweed, common smartweed sowthistle, annual spurge, spotted teaweed (prickly sida) velvetleaf wheat, volunteer

Scientific Name Convza canadensis Polygonum persicaria Lactuca serriola Malva neglecta Sarcostemma cynanchoides Ipomoea spp. Brassica nigra Brassica kaber 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

Scientific Name/Common Name	Treatment I C = Contair F = Field G
Abies balsamea	
Balsam fir	F
Abies concolor	
White fir	F
Abies fraseri	
Fraser fir	F
Abies grandis	
Grand fir	, F
Abies lasiocarpa	
Alpine fir	F
Abies veitchi	· ·
Veitch fir	F
Abutilon hybridum	
Albus flowering maple	F
Luteus flowering maple	F
Roseus flowering maple	F
Tangerine flowering maple	F
Vesuvius red flowering maple	F
Acer spp.	
maple	F
Arecastrum romanzoffianum	
Queen palm	F
Betula papyrifera	

Recommended Treatment Method: C = Container Grown <u>F = Field Grown</u>

Paper birch Betula nigra River birch Betula pendula White birch Bucida buceras Black olive Ceratonia siliqua Carob Cercidium floridum Blue palo verde Cercis canadensis Redbud Chamaecyparis lawsoniana Lawson falsecypress Chamaecyparis obtusa spp. Filicoides-fernspray cypress Gracilis-slender Hinoki cypress Chamaecyparis pisifera Sawara-false cypress Squarrosa-moss cypress Chamaedorea cataractarum Cat palm Chamaedorea costaricana Palm Chamaedorea elegans Parlor palm Cornus florida Flowering dogwood Crupaniopsis anacardioides Carrot wood Cryptomeria japonica Japanese cryptomeria Cupressus glabra Arizona cypress Cupressus sempervirens Italian cypress Elaeagnus angustifolia Russian olive Eucalyptus cinerea Mealy eucalyptus Silver dollar eucalyptus Eucalyptus camaldulensis Red gum eucalyptus Eucalyptus nicholii Narrow-leaved eucalyptus Eucalyptus sideroxylon Red ironbark eucalyptus Ficus benjamina Ficus Fraxinus spp. Ash Ginkgo biloba Maidenhair tree Gleditsia triacanthos Honey locust

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Heteromeles arbutiflora Toyon Juniperus virginiana Eastern redcedar` Kalmia latifolia Mountain laurel Koelreuteria paniculata goldenrain tree Liquidambar styraciflua American sweet gum Magnolia grandiflora Southern magnolia Malus spp. Crabapple Morus alba White mulberry Olea euripaea Olive Picea abies Norway spruce Picea engelmanni Engelmann spruce Picea glauca Conica-dwarf Alberta spruce White spruce Picea mariana Black spruce Picea pungens spp. Glauca-Colorado blue spruce Hoopsii-Hoop's blue spruce Koster-Koster blue spruce Pinus spp. Pine Platanus occidentalis American sycamore Platanus racemosa California sycamore Podocarpus spp. Podocarpus Populus deltoides Cottonwood Prunus caroliniana Carolina laurelcherry Prunus laurocerasus English laurelcherry Prunus mahaleb Mahaleb cherry Prunus yedoensis Yoshino flowering cherry Quercus spp.. Oak Salix babylonica Babylon weeping willow Corkscrew willow Schinus molle California pepper tree

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Sequoiadendron giganteum Giant sequoia Sequoia sempervirens 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

Ornamental Shrubs

Mexican fan palm

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.

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

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Wild lilac	C,F
Chamaecyparis obtusa spp.	-
Kosteri cypress	F
Nana-dwarf Hinoki cypress	F
Torulosa cypress	F
Chamaecyparis pisifera	-
Filifera-thread cypress	F
Squarrosa minima-dwarf moss cypress Chrysalidocarpus lutescens	F
Areca palm	F
Cleyera japonica	Г
Japanese cleyera	<u>с</u> г
Cotoneaster adpressus	C,F
Praecox-early cotoneaster	F
Cotoneaster apiculatus	F .
Cranberry cotoneaster	C,F
Cotoneaster buxifolius	0,1
Brightbead cotoneaster	F
Cotoneaster congestus	ı
Pyrenees cotoneaster	F
Cotoneaster dammeri	•
Bearberry cotoneaster	C, F
Cotoneaster himalayan	0, 1
Himalayan cotoneaster	F
Cotoneaster horizontalis	•
Rock cotoneaster	C,F
Cotoneaster lacteus	•.
Parney cotoneaster	C,F
Cotoneaster microphyllus	
Rockspray cotoneaster	F
Cornus alba	
Sibirica-Siberian dogwood	F
Cornus florida	
Flowering dogwood	F
Cornus kousa	
Kousa dogwood	C,F
Cornus stolonifera	_
Flaviramea-yellowtwig dogwood	۰F
Cryptomeria japonica	<u> </u>
Japanese cryptomeria	C,F
Cytisus praecox	_
Holandia-warminster broom	F
Cytisus scoparius	-
Lena-Scotch broom	F
Dasylirion wheeleri	F
Desert spoon sotol Deutzia crenata	г
Nakiana dwarf deutzia	F
Dodonea viscosa	I
Hopseed bush	F
Escallonia exoniensis	•
Escallonia	C,F
Euonymus alata	0,,
Winged euonymus	F
Euonymus fortunei	
Canadale gold euonymus	C,F

Page 16

Emerald'n gold euonymus Stringybark euonymus Wintercreeper Euonymus japonica Evergreen euonymus Silver king euonymus Euonymus kiautschovica Spreading euonymus Fatshedera lizei Fatshedera Forsythia intermedia Forsythia Gardenia jasminoides Gardenia Genista pilosa Woadwaxen Hibiscus rosa-sinensis Chinese hibiscus Ross Estev hibiscus Hibiscus syriacus Rose of Sharon, Red Bird Rose of Sharon, Red Heart Rose of Sharon, Woodbridge Hypericum spp. St. Johnswort llex aquifolium Balkans holly English holly Gold coast holly llex aquipernyi San Jose holly llex cornuta Chinese holly Dwarf burford holly llex crenata Convexa holly Compacta-dwarf Japanese holly Helleri-Heller's Japanese holly Japanese holly llex glabra Nordica-inkberry holly llex meserveae Blue girl holly Blue boy holly Ebony magic holly llex vomitoria Nana-dwarf yaupon holly Pendula-weeping yaupon holly Yaupon holly Juniperus spp. Juniper Justicia brandegeana Shrimp plant Justicia spicigera Mexican honeysuckle Lagerstroemia indica

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Crape myrtle Leucothoe axillaris Coast leucothoe Leucothoe fontanesiana **Drooping leucothoe** Ligustrum amurense Amur privet Ligustrum japonicum Japanese privet Yellow tip liaustrum Ligustrum texanum Wax leaf privet Howardi privet Ligustrum lucidum Glossy privet Ligustrum ovalifolium California privet Ligustrum vicaryi Vicary golden privet Livistona chinensis Chinese fountain palm Lonicera fragrantissima Winter honeysuckle Lonicera periclymenum Flowering woodbine Serotina woodbine Lonicera sempervirens Trumpet honeysuckle Mahonia aquifolium Oregon grape Myoporum parvifolium Prostrate myoporum Myrtus communis True myrtle Nandina domestica Compacta-dwarf heavenly bamboo Harbour-dwarf heavenly bamboo Heavenly bamboo Nana compacta- heavenly bamboo Nana purpurea-heavenly bamboo Woods-dwarf heavenly bamboo Nerium oleander Hardy red oleander Oleander Ruby lace oleander Osmanthus heterophyllus Holly-leaf osmanthus Pachysandra terminalis Japanese spurge Philadelphus spp. Mockorange Phoenix roebelenii Pygmy date palm Photinia fraseri Fraser's photinia Picea abies

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Repens-spreading Norway spruce Pendula-weeping Norway spruce	
Pieris japonica	
Andromeda	
Lily-of-the-valley	
Snowdrift	
Temple bells lily-of-the-valley	
Valley rose lily-of-the-valley	
Pittosporum spp.	
Pittosporum	
Platycladus orientalis	
Oriental arborvitae	
Plumbago ariculata	
Blue cape plumbago	
Podocarpus macrophyllus	
Yewpine	
Potentilla fragiformis	
Cinquefoil	
Potentilla fruticosa	
Cinquefoil	
Protea neriifolia	
Protea	
Pyracantha coccinea	
Scarlet forethorn	
Pyracantha fortuneana	
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Lalendel Monrovia pyracantha	
Monon pyracantha	
Red elf hybrid pyracantha	
Rutgers hybrid pyracantha	
Santa Cruz pyracantha	
Victory pyracantha	
Pyracantha skoidzumi	
Formosa firethorn	
Rhaphiolepis indica	
Enchantress-Moness rhaphiolepis	
India hawthorn	
Springtime-Monme rhaphiolepis	
Rhaphiolepis ovata	
Round-leaf rhaphiolepis	
Rhipsalidopsis gaetneri -	
Easter cactus	
Rhododendron spp.	
Azalea	
Rhododendron	
Rhus lancea	
African sumac	
Rosa rugosa	
Ramanas rose	
Rosmarinus officinalis	
Rosemary	
Spiraea vanhouttei	
Bridal wreath	
Syringa vulgaris	
Common lilac	
Syzygium paniculata	
Brush cherry	

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Taxus cuspidata
Japanese yew
Taxus media
Yew
Thuja occidentalis
American arborvitae
Emerald arborvitae
Globosa-globe arborvitae
Little Giant-dwarf arborvitae
Nigra-dark American arborvitae
Pyramidalis arborvitae
Rheingold arborvitae
Woodwardii arborvitae
Thuja orientalis
Aurea nana-dwarf golden arborvitae
Minima glauca-dwarf arborvitae
Trachelospermum jasminoides
Chinese star jasmine
Veitchia merilli
Christmas palm
Viburnum davidii
David viburnum
Viburnum japonicum
Viburnum
Viburnum opulus sterile
Eastern snowball viburnum
Viburnum plicatum tomentosum
Doublefile viburnum
Viburnum x pragense
Virburnum
Viburnum setigerum
Tea viburnum
Viburnum suspensum
Sandankwa viburnum
Viburnum tinus
Compactum-spring bouquet viburnum
Laurastinus viburnum
Viburnum trilobum
Compactum-dwarf cranberry bush
Weigela florida
Java red weigela
Bristol ruby weigela
Minuet weigela
Xylosma congestum
Xylosma
Yucca elata
Soaptree yucca
Yucca recurvifolia
Pendulous yucca

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Ground Covers

Scientific Name/Common Name

Recommended Treatment Method: C = Container Grown F = Field Grown Agapanthus africanus Lily-of-the-Nile Ajuga spp. Carpet bugle Arctotheca calendula Cape weed Campanula elatines Bellflower Carpobrotus edulis Largeleaf iceplant Clytostoma callistegioides Violet trumpet vine Cortaderia selloana Pampas grass Delosperma alba White iceplant Drosanthemum floribundum Trailing rosea iceplant Festuca ovina Blue fescue Gazania spp. Gazania Hedera canariensis Algerian ivy Hedera helix English ivy Hemerocallis spp. Day lily Hosta spp. Plantain lily Hypericum spp. St. Johnswort Lampranthus spectabilis Red trailing iceplant Liriope gigantea White lily turf Liriope muscari Big blue lily turf Lilac beauty lily turf Majestic lily turf Monroe white lily turf Silvery sunproof lily turf Variegated liriope lily turf Lonicera japonica Japanese honeysuckle Mesembryanthemum crystallinum Ice plant Ophiopogon japonicus Mondo grass Osteospermum fruticosum Trailing African daisy Sedum brevifolium Stonecrop Trachelospermum jasminoides Chinese star jasmine Vinca major

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Bigleaf periwinkle Vinca minor Dwarf periwinkle

Established Flowers

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

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

	Recommended
	Treatment Method:
	C = Container Grown
Common Name	F = Field Grown
Almond	F
Apple	F
Apricot	F
Avocado	F í
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 1
Walnut, black	F
Walnut, English	F

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

Non-bearing Berries †

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

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

Ornamental Bulbs

Special Use Precautions

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

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

Application Rates, Frequency, and Timing of Applications

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		XL 2G		Minimum Time Between Applications	Total Amount Allowed Per Year
Application	Soil Texture	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
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	·)	(L 2G	Minimum Time Between Applications	Total Amount Allowed Per Year
Control	(Ib/acre)	(lb/1000 sq ft)	(months)	(Ib/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.

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.

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

Broadcast Application Rates

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 ½ 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/1000 sq ft) Annual Grasses

Summer Annuals:

Common Name barnyardgrass crabgrass crowfootgrass foxtail goosegrass johnsongrass (seedling only) ryegrass, Italian sandbur, field Scientific Name Echinochloa crus-galli Digitaria spp. Dactyloctenium aegyptium Setaria spp. Eleusine indica Sorghum halepense

Lolium multiflorum Cenchrus incertus

Winter Annuals:

Common Name bluegrass, annual Scientific Name Poa annua

Broadleaf Weeds

Summer Annuals:

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Common Name

Scientific Name

carpetweed knotweed, prostrate purslane, common

Mollugo verticillata Polygonum aviculare Portulaca oleracea

Winter Annuals:

Common Name	Scientific Name
chickweed, common	Stellaria media
henbit	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/1000 sq ft).

Common Name

carrot, wild fleabane, dwarf groundsel, common mustard, Indian spurge, prostrate woodsorrel, yellow

Scientific Name Daucus carota Conyza ramosissima Senecio vulgaris Brassica juncea Euphorbia humistrata Oxalis stricta

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.

XL 2G		(L 2G	Minimum Time Between Applications	Total Amount Allowed Per Year
Use Area	(lb/acre)	(lb/1000 sq ft)	(months)	(lb/acre)
All regions	100	2.3	2	200
•	150	3.4	3	300

Broadcast Application Rates (Warm Season Turfgrasses)

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.

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	Estimated Spreader Setting Necessary to Apply the Specified Rate of XL 2G Per Acre In One Pass		
Spreader Type	100 lb/acre	150 lb/acre	
Cyclone:			
Models B1, 33, 96, BSSB at 200 ft/min.	3 1/4	3 1/2	
Model 100 at 200 ft/min.	3 1/4	3 1/2	
Model 93 (based on tractor speed of 4			
mph)	5	6 1/4	
Model 99 (based on tractor speed of 4			
mph)	4 3/4	5 3/4-6	
Model BPI (based on tractor speed of 4		•	
mph)	4 1/2	5 1/4-5 1/2	
Gandy:			
Model 10A series, 6, 8, 10, 11, 12, 20			
and 30 ft (based on tractor speed of			
5 mph)	31	37	
Model 10T series, 6, 8, 10, 11, 12, 20			
and 30 ft (based on tractor speed of	. ,		
5 mph)	33	· 40	
Turf Tender, 24, 30, 42 inch (based on			
tractor speed of 3 mph)	25	28	
600 Series, 2, 4 and 5 ft (based on	40		
tractor speed of 3 mph)	18	22	
Lely:			
Model W and H (based on tractor speed	•		
of 4.5 mph)	3	4	
Lesco:	,		
Lesco Spreader (Note: set 3rd	D 1/0	F	
adjustable hole 1 notch from "open")	D 1/2		
Scott:	LI 1/0	14/4	
Rotary Model R-8	H 1/2 3 7/8	1/4 4 5/8	
Drop Spreader	3 / 10	4 0/0	
Spyker:	3.2	3.6	
Spyker	J.Z		
Vicon: Model 402 (with seed ring) swath width			
20 ft, 5 mph speed	24	28	
Warren:	<u> </u>	20	
Model T-7II (based on ground speed of 3.0 mph)	3 1/4	4	
	0 114	<u> </u>	

IMPORTANT INFORMATION READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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