Dow AgroSciences

Goal® 2XL

Department of Agriculture
STATE OF HAWAII

LICENSED

PERIOD 2014-2016 LIC. NO. 9786.189

HERBICIDE

Active Ingredient
oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)4-(trifluoromethyl) benzene 22.3%
Other Ingredients 77.7%
Total 100.0%

Contains 2 pounds active ingredient per gallon.
Contains petroleum distillates

Keep Out of Reach of Children

WARNING AVISO

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

Agricultural Use Requirements

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

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

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

Shake Well Before Using

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

EPA Reg. No. 62719-424

EPA Est. 34704-MS-1
900-020743 / 00192353

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Produced for
Dow AgroSciences LLC
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Indianapolis, IN 46268

NET CONTENTS 2.5 GAL

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Causes Skin Irritation • Causes Moderate Eye Irritation • Harmful If Swallowed Or Absorbed Through The Skin

Do not get on skin or on clothing. Avoid contact with eyes.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category **G** on an EPA chemical resistance category selection chart.

Mixers, loaders and applicators using engineering controls (see Engineering Controls requirements below) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (such as Barrier Laminate, Viton) when mixing and loading
- Chemical-resistant apron when mixing and loading

All other mixers, loaders, applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves (such as Barrier Laminate, Viton)
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when exposed to the product concentrate

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

Engineering Controls: Mixers and loaders supporting ground applications to cotton must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], and must:

- Wear the personal protective equipment required above for mixers/loaders using engineering controls
- Wear protective eyewear if the system operates under pressure, and
- Be provided and have immediately available for use in case of emergency, such as a broken package, spill, or equipment breakdown, coveralls and chemical-resistant footwear.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6);

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove contaminated 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 on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed: Call a Poison Control Center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
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.
Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Contains petroleum distillates
Hot Line Number: 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 day or night, for emergency treatment information.

Environmental Hazards

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. See Directions for Use for additional restrictions. Do not contaminate water when disposing of equipment wash water.

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, except for the following:

- Onions, garlic and horseradish: The REI is 48 hours

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.
Do not enter or allow others to enter until sprays have dried.

Storage and Disposal:

Do not contaminated water, food or feed by storage or disposal
Pesticide Storage: Keep from Freezing. Store above 32°F
Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container. After rinsing, offer for recycling if available available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.
Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store

Storage and Disposal: (Cont.)

rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.
Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank to collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

PRODUCT INFORMATION

Goal® 2XL herbicide is a herbicide for postemergence and preemergence residual weed control in labeled crops. Directions provided in the General Use Information section of this label apply to all uses of this product. Use directions for listed crops are provided in the Crop-Specific Use Directions section of this label.

Use Restrictions

The following use restrictions apply to all labeled uses of Goal 2XL (Refer to directions for use for individual crops for additional crop-specific use restrictions.):

- Do not graze or harvest plants from areas treated with Goal 2XL for feed or forage.
- Apply Goal 2XL only with ground equipment unless otherwise specified in crop-specific use directions.
- Goal 2XL is phytotoxic to plant foliage. Avoid accidental spray contact or drift with established crops. Do not apply when weather conditions favor drift to non-target areas.
- Some labeled crops are tolerant to over-the-top applications of Goal 2XL if applied during dormancy. Do not make over-the-top applications unless specifically allowed in crop-specific use directions.
- Do not treat ditch banks or waterways with Goal 2XL or contaminate water used for irrigation or domestic purposes.
- Do not apply Goal 2XL in enclosed greenhouses as foliage injury will result.

Spray Drift Buffer Restrictions

- A 25 foot vegetative buffer strip must be maintained between all areas treated with this product and lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not allow spray to drift from the application site and contact people, structures people may occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.
- For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy when wind speed is 10 mph or less at the application site as measured by an anemometer.
- Use coarse spray according to ASAE 572 definition for standard nozzles or VMD of 475 microns for spinning atomizer nozzles.
- The applicator also must use all other measures necessary to control drift.

Rotation Crop Restrictions

- Do not rotate to small-grain crops (includes barley, buckwheat, corn, pearl millet, proso millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, wild rice) within 10 months following an application of Goal 2XL.
- Do not direct seed any crop, other than a crop labeled for use with Goal 2XL, within 60 days following application.
- Do not transplant seedlings of crops, other than crops labeled for use with Goal 2XL, within 30 days following application.
- **IMPORTANT: Unless otherwise specified elsewhere in this label or Dow AgroSciences supplemental label or product bulletin, treated soil must be thoroughly mixed to a depth of 4 inches after harvest (or abandoning) of the treated crop but prior to planting of the rotational crop. Failure to achieve thorough and complete mixing or to follow the required minimum plant-back interval may result in crop injury, stand reduction and/or vigor reduction of the plant-back crop.** See specific fallow bed labeling instructions for required treatment-to-planting intervals following application of Goal 2XL to fallow beds or fallow fields.

Weeds Controlled

Common Name	***Scientific Name***
ageratum	*Ageratum conyzoides*
amaranth, spiny	*Amaranthus spinosus*
balsamapple	*Momordica charantia*
barnyardgrass (watergrass) †	*Echinochloa crus-galli*
bedstraw, catchweed	*Galium aparine*
bittercress, lesser	*Cardamine oligosperma*
bluegrass, annual †	*Poa annua*
buckwheat, wild	*Polygonum convolvulus*
burclover	*Medicago hispida*
buttercup, smallflower	*Ranunculus aborvitus*
buttonweed	*Borreria laevis*
camphorweed	*Heterotheca subaxillaris*
canarygrass (annual)	*Phalaris canariensis*
carpetweed	*Mollugo verticillata*
cheeseweed (malva)	*Malva parviflora*
clover, red †	*Trifolium pratense*
clover, white †	*Trifolium repens*
cocklebur, common	*Xanthium pensylvanicum*
crabgrass, large (hairy) †	*Digitaria sanguinalis*
crotalaria	*Crotalaria species*
croton, tropic	*Croton glandulosus*
cudweed, narrowleaf	*Gnaphalium falcatum*
eveningprimrose, cutleaf	*Oenothera laciniata*
fiddleneck, coast †	*Amsinckia intermedia*
filaree, broadleaf	*Erodium botrys*
filaree, redstem	*Erodium cicutarium*
filaree, whitestem	*Erodium moschatum*
fireweed (from seed)	*Epilobium angustifolium*
flixweed	*Descurainia sophia*
foxtail, giant †	*Setaria faberi*
foxtail, green	*Setaria viridis*
foxtail, yellow	*Setaria lutescens*
geranium, Carolina	*Geranium carolinianum*
goosegrass †	*Eleusine indica*
groundcherry, cutleaf	*Physalis angulata*
groundcherry, Wright	*Physalis wrightii*
groundsel, common	*Senecio vulgaris*
henbit	*Lamium amplexicaule*
horseweed (marestail)	*Conyza canadensis*
jimsonweed	*Datura stramonium*
johnsongrass, seedling	*Sorghum halepense*
knotweed, prostrate	*Polygonum aviculare*
ladysthumb (smartweed)	*Polygonum persicaria*
lambsquarters, common	*Chenopodium album*
lettuce, prickly (china lettuce)	*Lactuca serriola*
mallow, little (malva)	*Malva parviflora*
mayweed (dog fennel)	*Anthemis cotula*
minerslettuce	*Montia perfoliata*
morningglory species, annual	*Ipomoea species*
morningglory, ivyleaf †	*Ipomoea hederacea*
morningglory, tall †	*Ipomoea purpurea*
mustard, black	*Brassica nigra*
mustard, blue (purple mustard)	*Chorispora tenella*
mustard, common yellow	*Brassica campestris*
mustard, hedge	*Sisymbrium officinale*
mustard, tumble (Jim hill mustard)	*Sisymbrium altissimum*
mustard, wild	*Brassica kaber*
nettle, burning	*Urtica urens*
nightshade, American black	*Solanum americanum*
nightshade, black	*Solanum nigrum*
nightshade, hairy	*Solanum sarrachoides*
oats, wild	*Avena fatua*
orach, red	*Atriplex rosea*
oxalis (bermuda buttercup)	*Oxalis pes-caprae*
panicum, fall	*Panicum dichotomiflorum*
pepperweed, Virginia	*Lepidium virginicum*
pepperweed, yellowflower	*Lepidium perfoliatum*
pigweed, prostrate	*Amaranthus blitoides*
pigweed, redroot	*Amaranthus retroflexus*
pimpernel, scarlet	*Anagallis arvensis*
poinsettia, wild	*Euphorbia heterophylla*
puncturevine	*Tribulus terrestris*
purslane, common	*Portulaca oleracea*
pusley, florida	*Richardia scabra*
ragweed, common	*Ambrosia artemisiifolia*
redmaids	*Calandrinia caulescens*
rocket, London	*Sisymbrium irio*
ryegrass, Italian	*Lolium multiflorum*
sage, lanceleaf	*Salvia reflexa*
sandbur, field	*Cenchrus incertus*
sandspurry, red	*Spergularia rubra*
sesbania, hemp	*Sesbania exaltata*
shepherdspurse †	*Capsella bursa-pastoris*
sicklepod	*Cassia obtusifolia*
sida, prickly (teaweed)	*Sida spinosa*
signalgrass, broadleaf	*Brachiaria platyphylla*
smartweed, pennsylvania	*Polygonum pensylvanicum*
sorrel, red (from seed)	*Rumex acetosella*
sowthistle, annual	*Sonchus oleraceus*
speedwell, birdseye	*Veronica persica*

Weeds Controlled (Cont.)

Common Name	*Scientific Name*
spurge, garden	*Euphorbia hirta*
spurge, prostrate † †	*Euphorbia supina*
spurge, spotted † †	*Euphorbia maculata*
spurry, corn	*Spergula arvensis*
tansymustard	*Descurainia pinnata*
thistle, bull † †	*Cirsium vulgare*
thistle, Russian	*Salsola kali*
velvetleaf	*Abutilon theophrasti*
witchgrass	*Panicum capillare*
witchweed	*Striga asiatica*
woodsorrel, common yellow † †	*Oxalis stricta*

† Highest rate and/or multiple applications may be required for acceptable control.

† † Preemergence control only.

Application Methods and Cultural Practices

Preemergence Weed Control

Apply the specified rate in a broadcast spray volume of 15 or more gallons of water per acre using calibrated spray equipment capable of uniform application to the soil surface. Seedling weeds are controlled as they come in contact with the soil-applied herbicide during emergence. Preemergence weed control is most effective when Goal 2XL is applied to soil surfaces that are clean (free of crop or weed residues or clippings) and weed-free. Prior to application, weed or crop residues should be removed by thorough incorporation into the soil using tillage equipment or by blowing the area to be treated. At least 0.25 inch of irrigation or rainfall is required to activate Goal 2XL and should occur within 3 to 4 weeks after application. For optimum results, Goal 2XL should be applied to prepared beds or soil surfaces that will be left undisturbed during the time period for which weed control is desired. Cultural practices that disturb or redistribute surface soil following treatment with Goal 2XL such as cutting water furrows will reduce weed control effectiveness.

Application Rates and Rate Ranges: Where rate ranges are given, use the lower rate in the rate range on coarse texture soils with less than 1% organic matter and lighter weed infestations. Use higher rates in the rate range on medium to fine texture soils, soils containing greater than 1% organic matter, heavy weed infestations, or for extended residual preemergence weed control.

Postemergence Weed Control

Apply the specified rate in a broadcast spray volume of 20 or more gallons of water per acre (a minimum 10 gallons if applying Goal 2XL in tank mix with glyphosate). Because Goal 2XL is a contact herbicide, complete and uniform coverage of weed foliage is essential for optimum postemergence control. Increase the spray volume to ensure complete and uniform coverage as weed height and density increases or in the presence of heavy trash (weed or crop residue). Postemergence applications of Goal 2XL are most effective when made to weeds at the seedling stage. Applications made later than the 4-inch or 4 leaf stage may result in partial control or suppression. Postemergence applications should be made to seedling grasses not exceeding the 2-leaf stage. The addition of 0.25% v/v (2 pints per 100 gallons of spray) of an 80% active nonionic surfactant, labeled for application to growing crops, will enhance herbicidal effectiveness in controlling emerged weeds.

Postemergence Application Rates: Where a rate range is given, use a higher rate in the rate range for heavy weed infestations, weeds in advanced stages of growth or for extended residual preemergence weed control following control of existing emerged weeds.

Ground Application

Ground Broadcast: Apply Goal 2XL using conventional low-pressure ground spray equipment with flat fan spray nozzles. Follow manufacturer's recommendation for spraying pressure and boom height. An off-center (OC) nozzle positioned at the end of the boom may be desired. Check calibration of spray equipment before each use.

Directed Sprays: Apply Goal 2XL as a coarse low-pressure spray in a spray volume of 20 or more gallons of spray per acre (broadcast basis). Follow manufacturer's recommendations for nozzle spacing and operating pressure. Spray should be directed toward the soil at the base of the crop. In row crops, use a minimum of 2 flat fan nozzles per row (one on each side) and for optimum spray coverage use 4 flat fan nozzles per row (two on each side). The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer system, nozzles should be adjusted to cover the weed foliage but minimize contact with the crop. Do not apply with hollow cone nozzles.

IMPORTANT: Goal 2XL is a contact herbicide. Contact of sprays or drift with foliage or green stems can cause severe crop injury. Use directed sprays and spray shields and/or leaf lifters as necessary to minimize contact of spray or drift with crop foliage or stems. Young green stems of woody plants are also susceptible to injury from spray contact. Potential for injury to woody stems diminishes with loss of green color and the development of relatively impervious non-living corky tissue (bark) on the surface of the stem.

Band Application: Application rates listed in this label are for broadcast application. For band application, the rate per broadcast acre should be reduced according to the following formula:

Band Width (in inches) / Row Width (in inches)	X	Rate per Broadcast Acre	=	Amount Needed per Acre for Banded Application

Spot Application

For spot application, apply sprays uniformly to soil for preemergence weed control or on a spray-to-wet basis for postemergence weed control. Mix the required amount of Goal 2XL with the specified amount of water. For preemergence weed control, use one-half to one gallon of spray per 1000 sq ft. For postemergence weed control use a minimum of 1 gallon of spray per 1000 sq ft and add an 80% nonionic surfactant at the rate of 0.5 fl oz (1 Tbs) per gallon of spray. If making spot applications within an established crop, use coarse low-pressure sprays and direct the spray to the soil beneath the plants. To avoid crop injury, do not allow spray to contact leaves and stems of herbaceous plants or leaves or green stems of woody plants.

Amount of Goal 2XL Required to Treat 1000 sq ft at Specified Application Rate					
0.5 pt/ acre	**1.0 pt/ acre**	**2.0 pt/ acre**	**3.0 pt/ acre**	**4.0 pt/ acre**	**8.0 pt/ acre**
0.2 fl oz (5.5 ml)	0.4 fl oz (11 ml)	0.75 fl oz (22 ml)	1.1 fl oz (33 ml)	1.5 fl oz (44 ml)	3.0 fl oz (88 ml)

1 pint = 16 fl oz; 1 fl oz = 29.6 (30) ml

Aerial Application

Use aerial boom equipment designed for use with herbicides and a minimum spray volume of 10 gallons per acre (5 gallons per acre if tank mixed with glyphosate). **Do not aerially apply Goal 2XL unless crop-specific use directions specifically allow and provide directions for aerial application.**

AVOID DRIFT: Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result. Extreme care must be exercised to prevent spray drift that could result in damage to other crops or desirable vegetation. Adhere to the following guidelines when aerial applications are to be made.

Spray Drift Management (Aerial Application): Avoiding spray drift at the application site is the responsibility of the applicator. The potential for spray drift is controlled by the interaction of many equipment-and-weather-related factors. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator must adhere to the following requirements when Goal 2XL is aerially applied:

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except the following:
   Maintain a minimum downwind buffer zone of:
   - 150 feet from dormant treefruit/nut/vine crops and overwintering sugar beets.
   - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugar beets, and non-targeted vegetable fallow beds.
3. When wind speeds are between 5 and 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any non-targeted vegetable fallow bed, crop, or desirable vegetation.

The use of a drift control agent may be required by local regulations. However, the drift control agent may decrease the weed control effectiveness.

Important: Aerial applicators must be familiar with the label for Goal 2XL and follow all applicable use precautions. Applying Goal 2XL in a manner other than specified in this label is done at the user's risk. Users are responsible for all loss or damage resulting from aerial spraying. In addition, aerial applicators should follow all applicable state and local regulations and ordinances. In interpreting the label and local regulations, the most restrictive limitations apply.

Chemigation Instructions

Do not apply this product through any irrigation system unless the instructions for chemigation are followed. **Do not apply Goal 2XL through chemigation equipment unless chemigation is allowed by Crop-Specific Use Directions.**

Apply this product only through sprinkler (center pivot, solid set, portable lateral, or low-volume (micro sprinkler)), drip (trickle), or flood (basin) irrigation systems. Refer to use directions for specific crops for instructions as to which type of irrigation system may be used. Do not apply this product through any other type of irrigation system.

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Sprinkler Chemigation (Foliar Spray Uses)

For sprinkler irrigation, sufficient water should be applied at the beginning of the irrigation period to insure uniform wetting of the plant and/or soil surfaces. Meter Goal 2XL into the sprinkler irrigation system at a continuous uniform rate during the middle 1/3 of the irrigation period to allow for uniform distribution to target weeds and/or soil surface. Continue irrigation during the final 1/3 of the irrigation period to insure proper flushing of the irrigation system. During sprinkler irrigation, sufficient water should be applied to insure water penetration to a depth of two inches.

AVOID DRIFT: Extreme care must be exercised to prevent spray drift that could result in damage to other crops or desirable vegetation. Use the following guidelines when applications of Goal 2XL are made through sprinkler irrigation equipment:

1. Do not apply when the wind direction is not stable, when inversion conditions exist, or when wind velocity exceeds 10 mph.
2. When wind speeds are 5 mph or less, maintain a minimum downwind buffer zone of at least 1/2 mile from all crops and desirable vegetation, except for the following:
   Maintain a minimum downwind buffer zone of:
   - 150 feet from dormant treefruits, dormant vines and overwintering sugar beets.
   - 650 feet from garlic, jojoba, legumes, onions, pastures, small grains, seedling sugar beets and vegetable fallow beds.
3. When wind speeds are between 5 and 10 mph, downwind buffer zones in excess of those listed above are suggested.
4. For upwind and side borders, maintain a minimum buffer zone of 150 feet from any vegetable fallow bed, crop, or desirable vegetation.

To apply a pesticide using sprinkler chemigation, the chemigation system must meet the following specifications:

- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

Flood (Basin) Chemigation (Soil Drench Uses)

Goal 2XL should be continuously metered into the water during the entire irrigation period. Agitation in the pesticide supply tank is suggested. Best weed control results from Goal 2XL applied through flood (basin) irrigation systems are obtained when a uniform distribution and flow of irrigation water is maintained over level land.

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check calve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Drip (Trickle) Chemigation (Soil Drench Uses)

To achieve optimum distribution of Goal 2XL in the soil surface, meter Goal 2XL at a continuous uniform rate during the middle 1/3 of the irrigation period. For best results, Goal 2XL should be uniformly distributed across the wetted area to help reduce the "ring effect" of weed escapes. Continue irrigation during the final 1/3 of the irrigation period to insure proper flushing of the irrigation system.

To apply a pesticide using drip (trickle) chemigation, the chemigation system must meet the following specifications:

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pipe and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Chemigation Calibration: For Low-Volume Sprinklers (Microsprinklers) and Drip (Trickle) Irrigation Systems

Calculation of use rate is based on wetted area around emitters - NOT on grove acres. To determine correct amount of Goal 2XL, use the following formula:

1. Treated area per each emitter = A
   A = 3.14 x (radius x radius)

   Example: If the average distance from emitter to perimeter of wetted area measured at the soil surface is 13 inches, then
   A = 3.14 X (13" x 13")
   A = 3.14 X (169")
   A = 530.7 square inches

2. The area in square feet wet in each acre = B
   $B = \frac{A \text{ X emitters/acre}}{144}$

   Example: If there are 300 emitters per acre, then
   $B = \frac{530.7 \text{ X } 300}{144} = B = 1105.6$ square feet wetted per acre

3. The total area (in square feet) wet by your system = C
   C = B X acres covered by system

   Example: If the system covers 20 acres, then
   C = 1105.6 square feet per acre x 20 acres
   C = 22,112 square feet wetted by system

4. Amount of Goal 2XL to inject = S

   Rate per treated acre of Goal 2XL = R

   $S = \frac{C \text{ X } R}{43{,}560}$ = quarts of Goal 2XL

   Example: If the desired application rate per treated acre is 1 quart of Goal 2XL, then

   $S = \frac{22{,}112 \text{ X } 1.0}{43{,}560} = S =$ 0.507 quarts of Goal 2XL should be injected into system.

Note: Select the proper rate based on weed spectrum and desired length of control (See **Rate Ranges** section below).

Chemigation Systems Connected to Public Water Systems

If the chemigation system is connected to a public water supply, the following conditions must also be met:

- Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Mixing Directions

Shake well before use. Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the specified amount of herbicides to the spray tank. The order of addition to the spray tank should be (1) wettable powders, (2) flowables and (3) soluble liquids. Complete filling of the spray tank with water.

Use of Surfactants: For all applications of Goal 2XL where postemergence weed control is desired **(except garlic and onions)**, add a minimum of 2 pints of 80% active nonionic surfactant (cleared for application to growing crops) per each 100 gallons of spray. The addition of 4 pints of nonionic surfactant is recommended to enhance postemergence activity when hard water (greater than 600 ppm) is used. Maintain agitation until spraying is completed.

Tank Mixing Precautions:

- Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.
- Do not exceed recommended application rates. Do not tank mix this product with another pesticide that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.

Tank Mix Compatibility Testing: Perform a jar test prior to tank mixing to ensure compatibility of this product and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

Sprayer Clean-up: Thoroughly flush spray equipment (tank, pump, hoses and boom) with clean water before and after each use. Residues of Goal 2XL remaining in spray equipment may damage other crops. To aid in removal of residues of Goal 2XL, Add a non-ionic surfactant to equipment flushing waters at the rate of 1 quart per 100 gallons.

Crop-Specific Use Directions

Artichoke (Globe)

Post-Directed Spray Application

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 6	**Application Method:** Apply as a directed spray to the soil surface between the rows and at the base of artichoke plants in a minimum spray volume of 40 gallons per acre. **Timing to Crop:** Apply after completion of ditching operations. Separate applications of up to 4 pt/acre may be made 8 to 10 weeks apart or a single application of up to 6 pt/acre may be made. **Timing to Weeds:** Preemergence up to 8 leaf stage.
Precautions: • Do not apply over-the-top. Contact with direct spray or drift will cause injury to artichoke fronds or severe injury to buds or flowers. • Application of Goal 2XL to artichoke plantings should be delayed a minimum of 60 days after cutting back or transplanting.		
Restrictions: • Do not apply more than 6 pints of Goal 2XL per acre per season as a result of a single application or multiple applications. • **Preharvest Interval:** Do not apply within 5 days of harvest.		

Key Weeds Controlled:

Preemergence		Postemergence	
cheeseweed (malva) groundsel, common lambsquarters, common mustard, common yellow	oxalis (bermuda buttercup) † shepherdspurse sowthistle, annual	cheeseweed (malva) groundsel, common mustard, common yellow nettle, burning	oxalis (bermuda buttercup) shepherdspurse sowthistle, annual

† Suppression

Primocane Suppression in Blackberry and Raspberry

For Use Only in Oregon and Washington

Crop	Rate (pt/acre)†	Specific Use Directions
Blackberry Raspberry	1.6 – 3.2 0.75 – 3.0	Apply Goal 2XL in a minimum spray volume of 50 gallons per broadcast acre to primocanes which have emerged 4 to 6 inches. Proper timing of the spray application is essential. Application to primocanes greater than 6 inches may result in unacceptable cane growth (bent canes). The highest use rate and/or additional applications may be required to achieve acceptable suppression of vigorous early season primocane growth. On shorter season plantings (in higher elevations) or plantings grown on light (sandy) textured soils, reduced rates may provide acceptable primocane suppression. Primocane suppression from Goal 2XL may last from 3 to 6 weeks, therefore, timing, rate, and number of applications should be adjusted according to plant health and vigor and the desired length of primocane suppression. The addition of 2 pints of an 80% active nonionic surfactant cleared for application to growing crops) per 100 gallons of spray solution is recommended.

Primocane Suppression in Blackberry and Raspberry (Cont.)

Precautions:

- Occasionally, after the use of Goal 2XL, a spotting, crinkling or flecking may appear on the leaves of the fruiting canes. Some blackberry varieties may be more sensitive than others. This is to be expected and does not affect performance or yield. Leaves of the fruiting canes, which receive direct or indirect (drift) spray contact will be injured.

  Do not use Goal 2XL on blackberry plantings which are weak or under stress, due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture, as primocane growth may be insufficient for the following year's crop.

Crop-Specific Restrictions:

- **Chemigation:** Do not apply this product through any type of irrigation system.
- Goal 2XL should be applied only by ground application equipment.
- Goal 2XL is phytotoxic to plant foliage. Avoid accidental spray contact or drift with established crops. Do not apply when weather conditions favor drift to non-target areas.
- Do not treat ditch banks or waterways with Goal 2XL or contaminate water used for irrigation or domestic purposes.

Blackberry

- **Do not** apply more than 3.2 pints (0.8 lb. active) per broadcast acre of Goal 2XL in a single application, or more than a total of 6 pints (1.5 lbs. active) per broadcast acre per season as a result of four (4) applications.
- **Do not** apply Goal 2XL within 15 days of harvest.

Raspberry

- **Do not** apply more than 3 pints (0.75 lb. active) per broadcast acre of Goal 2XL in a single application, or more than a total of 5 pints (1.25 lbs. active) per broadcast acre per season as a result of two applications.
- **Do not** apply Goal 2XL within 50 days of harvest.

†Dosages listed are for broadcast application. See Ground Application section of this label for conversion to band application rates.

Primocane Suppression During Nonbearing Year of Alternate Year Blackberry Production

For Use Only in Oregon

Crop	Rate (pt/acre)†	Specific Use Directions
Blackberry	2 – 4	Apply Goal 2XL to the unwanted vegetative growth at the base of the blackberry plants. The addition of 2 pints of an 80% active nonionic surfactant cleared for application to growing crops) per 100 gallons of spray solution is recommended. Goal 2XL should be applied after a sufficient number of canes have been bundled and trained to the trellis wire. The first application is made when the primocanes to be saved have reached either the bottom wire or approximately 4 feet in length (typically early to mid-June). Goal 2XL should be directed to the lower portion of the canes to reduce unwanted lateral growth and excessive foliage that normally develops at the base of each plant. The primocanes to be saved must be trained at an adequate height above the directed spray. A second application (typically mid-July to mid-September after the primocanes are trellised and wrapped on wire) may be applied to suppress new growth, leaves and lateral spurs that develop at the base of the plant. Application timing will vary according to location and vigor of planting. Spray coverage is essential for optimum activity on unwanted vegetation. Goal 2XL should be applied at a minimum of 30 gallons of water per broadcast acre in a 3-foot band directed towards the lower portion of the blackberry canes in the primocane row. Use a low-pressure spray system (suggested 30 to 60 psi). Mounted nozzles are to be used to deliver the spray solution. Spray equipment should be calibrated carefully before each use.

Primocane Suppression During Nonbearing Year of Alternate Year Blackberry Production (Cont.)

Precautions:

- Occasionally, after the use of Goal 2XL, a spotting, crinkling or flecking may appear on the leaves of the vegetative canes. This is to be expected and does not affect plant health, performance or yield. Leaves of the vegetative canes that receive direct or indirect (drift) spray contact will be injured.
- Do not use Goal 2XL on blackberry plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.

Crop-Specific Restrictions:

- **Chemigation: Do not** apply this product through any type of irrigation system.
- Goal 2XL should be applied only by ground application equipment.
- Goal 2XL is phytotoxic to plant foliage. Avoid accidental spray contact or drift with established crops. Do not apply when weather conditions favor drift to non-target areas.
- **Do not** apply more than 4 pints (1.0 lb. active) of Goal 2XL broadcast acre in a single application or more than 8 pints (2.0 lbs. active) per broadcast acre per season as a result of two applications.
- For application only during the nonbearing year of blackberries grown using Alternate Year (AY) management system.
- **Do not** apply Goal 2XL to blackberries during the bearing season.

†Dosages listed are for broadcast application. See Ground Application section of this label for conversion to band application rates.

Broccoli / Cabbage / Cauliflower

Pre-Transplant (Preplant) Application for Preemergence Broadleaf Weed Control

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	**1 - 2**	**Pre-Transplant Application Only:** Apply broadcast to final seedbed prior to transplanting. Use lower rate in the rate range on coarse textured soils with less than 1% organic matter. Use the highest rate in the rate range on medium to fine textured soils or soils containing greater than 1% organic matter. Transplanting should be accomplished with minimal soil disturbance and soil left undisturbed during the time weed control is desired.

Precautions:

- Pre-transplant applications may result in initial, but temporary, crop injury (leaf cupping or crinkling) and is enhanced if crop leaves come in direct contact with treated soil. Crop will rapidly outgrow this condition and develop normally. Severe crop injury may result if transplants are under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides or storage conditions. The use of transplants less than 5 weeks old or use of extremely succulent transplants grown in containers less than 1 inch square, may increase the severity of crop injury. Hardening off, increasing the age of transplants or increasing the size of the rooting containers will lessen the possibility and/or severity of potential crop injury.
- Goal 2XL will assist in early season annual grass control, however, a herbicide program for preemergence or postemergence control of annual grasses is recommended.
  Note: Do not apply Goal 2XL if an acetanilide herbicide such as Dual Magnum herbicide, Lasso herbicide, or Ramrod herbicide has been applied to the field during the current growing season as severe crop injury may occur.
- Do not apply Goal 2XL as a preemergence treatment to direct-seeded broccoli, cabbage or cauliflower.
- Do not apply Goal 2XL post-transplant or over-the-top of broccoli, cabbage or cauliflower.
- Applications to muck soils may result in partial weed control or suppression.
- Furrow and drip irrigation immediately after transplanting and under high temperatures can result in increased crop injury. Sprinkler irrigation is recommended during early establishment of transplants. If these conditions cannot be met, Goal 2XL herbicide should not be used.

Crop-Specific Restrictions:

- Do not apply more than 2 pints of Goal 2XL per treated acre per season.

Key Weeds Controlled:

Preemergence			
carpetweed	pigweed, redroot	purslane, common	smartweed, Pennsylvania

Cacao (Bearing And Nonbearing)

(For Use Only in Hawaii)

Goal 2XL may be applied as a pre-transplant treatment or to established or recently transplanted cacao.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	2 - 8	**Pre-transplant Application:** Up to 4 pints per broadcast acre may be applied as a pre-transplant application. **Application to Established Plantings:** In established plantings, including recently transplanted cacao plants, apply as a directed spray to the orchard floor. Use higher rates in rate range and increase spray volume to control dense growth of existing weeds or for extended residual preemergence weed control.
Precautions: • Do not apply preplant or preemergence to direct-seeded cacao. • Goal 2XL should be applied to only healthy growing trees/transplants of suitable size to allow directed sprays. Avoid spray contact with foliage.		
Crop-Specific Restrictions: • Do not apply more than 8 pints of Goal 2XL per acre as a single application or more than 24 pints per acre per year. • **Preharvest Interval:** Do not apply Goal 2XL within 1 day of harvest.		

Key Weeds Controlled:

Preemergence	Postemergence
ageratum buttonweed crotalaria purslane, common spurge, garden	purslane, common spurge, garden

Citrus (Nonbearing)

Citrus, such as Calamondin, Chironja, Citrus Citron, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Pummelo, Satsuma Mandarin, Sour Orange, Sweet Orange, Tangelo, Tangerine, Tangor

Goal 2XL may be applied only in non-bearing citrus orchards. Apply only as a directed spray to the orchard floor avoiding contact with citrus foliage.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	6	**Preemergence Weed Control:** Up to 6 pt/acre may be applied for residual preemergence weed control. **Postemergence Weed Control:** The 6 pint/acre rate will control weeds up to 4 inches tall. Weeds greater than 4-leaf or 4 inches tall may be partially controlled. Use sufficient spray volume for complete and uniform coverage of weeds. Increase the spray volume with increased weed height and density to ensure complete coverage.
Postemergence	2 - 6	
Tank Mixing: Refer to Mixing Directions section for Tank Mixing Precautions. • **Preemergence Use:** For residual control of grass weeds, Goal 2XL may be tank mixed with grass herbicides labeled for use in citrus. • **Postemergence Use:** For broader spectrum postemergence control of emerged grass and broadleaf weeds, Goal 2XL may be tank mixed with paraquat (Gramoxone herbicide) or glyphosate.		
Precautions: • Do not apply during periods of new citrus foliage growth. Applications should be made after foliage has fully expanded and hardened off. Avoid direct spray contact with citrus foliage.		
Crop-Specific Restrictions: • Apply Goal 2XL only to nonbearing citrus (trees that will not bear fruit for one year). • Do not apply more than 6 pints of Goal 2XL per acre per year as a result of a single or multiple applications.		

Key Weeds Controlled:

(Arizona and California)		(Florida, Louisiana and Texas)	
Preemergence	**Postemergence**	**Preemergence**	**Postemergence**
burclover cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate lambsquarters, common lettuce, prickly pigweed, redroot purslane, common redmaids rocket, London shepherdspurse sowthistle, annual spurge, prostrate spurge, spotted	cheeseweed (malva) fiddleneck, coast filaree, broadleaf † filaree, redstem † filaree, whitestem † groundsel, common henbit minerslettuce nettle, burning pigweed, redroot redmaids shepherdspurse sowthistle, annual	cudweed, narrowleaf eveningprimrose, cutleaf † † groundcherry, cutleaf lambsquarters, common nightshade, American black nightshade, black pepperweed, Virginia pigweed, redroot poinsettia, wild pusley, florida sida, prickly (teaweed) smartweed, pennsylvania sowthistle, annual spurge, prostrate spurge, spotted	balsamapple cudweed, narrowleaf † † † eveningprimrose, cutleaf † † groundcherry, cutleaf groundcherry, Wright lambsquarters, common morningglory, annual nightshade, American black nightshade, black pepperweed, Virginia pigweed, redroot poinsettia, wild purslane, common pusley, florida sida, prickly (teaweed) smartweed, pennsylvania sowthistle, annual

† Goal 2XL at the 6 pt/acre will provide control of filaree and other weeds up to 4-inch stage. Applications to weeds beyond the 4-inch stage may result in partial control.
† † Highest rate and/or multiple applications may be required for acceptable control.
† † † Maximum 0.5-inch diameter.

Clary Sage

Clary Sage *(Salvia sclarea)* Grown and Utilized in the Essence Industry
(For Use Only in North Carolina)

Weed Control	Rate (pt/acre)	Specific Use Directions
Postemergence	0.5 - 1	Goal 2XL may be applied to established clary sage for control of henbit *(Lamium amplexicaule*) and other winter annual broadleaf weeds during the winter and spring season. Apply shortly after the first flush of henbit is in the 2- to 4-leaf stage of growth. Additional applications may be required to control subsequent weed flushes through the spring season. After treatment, henbit will stop growing and slowly die. Increase the spray volume if weed growth is dense.
Precautions: • Clary sage may respond to the topical application of this product with some marginal leaf burn, but recovery is rapid.		
Crop-Specific Restrictions: • Do not apply more than 6 pints per acre per year.		

Coffee (Bearing And Nonbearing)

(For Use Only in Hawaii)

Goal 2XL may be applied to established coffee, recently transplanted coffee, or as a pre-transplant treatment. In established non-dormant coffee, apply as a directed spray avoiding contact with crop foliage. Newly established transplants should be healthy and well established and of sufficient size to allow use of directed sprays without contacting crop foliage.

Goal 2XL may be applied over-the-top of dormant coffee transplants. Transplants are considered to be dormant when active terminal growth has ceased and terminal buds have formed. Application over-the-top of coffee plants after buds start to swell (a sign that new growth has resumed) may result in crop injury.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	2 - 8	**Preemergence Weed Control:** • Apply as a directed spray to the orchard floor beneath established coffee plants. • Up to 4 pints per acre may be applied as a pre-transplant application prior to transplanting coffee plants. **Postemergence Weed Control:** Increase the spray volume when weed growth is dense or trash is present; or use a higher rate within the rate range for extended residual preemergence weed control.
Tank Mixing: Refer to Mixing Directions section for Tank Mixing Precautions. Apply tank mixes only as a directed sprays.		
Precaution: • To prevent foliar injury, do not apply during periods of rapid new growth or allow spray or drift to contact actively growing foliage.		
Crop-Specific Restrictions: • Do not apply preplant or preemergence to direct-seeded coffee. • Do not apply more than 8 pints per broadcast acre of Goal 2XL in a single application or 24 pints per broadcast acre per year. • **Preharvest Interval:** Do not apply Goal 2XL within one (1) day of harvest.		

Key Weeds Controlled:

Preemergence		Postemergence
ageratum buttonweed crotalaria	purslane, common spurge, garden	purslane, common spurge, garden

Conifer Seedbeds, Transplants, Container Stock And Selected Field Grown Deciduous Trees

Goal 2XL is effective as a preemergence and/or postemergence herbicide for the control of certain annual grassy and broadleaf weeds in conifer seedbeds. The most effective postemergence weed control is achieved when Goal 2XL herbicide is applied to seedling weeds less than four inches in height. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Treated soil surfaces should not be disturbed as the herbicidal effectiveness of Goal 2XL may be decreased. Seedling weeds are controlled during emergence as they come in contact with the soil-applied herbicide.

Use Precautions and Restrictions:

- Do not apply Goal 2XL in an enclosed greenhouse structure as injury to plant foliage may result.
- Do not store or transport treated container stock in an enclosed structure until completion of 4 irrigations (minimum 21 days) as injury to non-labeled plants may occur.
- Apply Goal 2XL only to healthy conifer stock. Do not apply Goal 2XL to conifers that are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.
- Do not graze or harvest livestock forage from treated areas.

Key Weeds Controlled: When Goal 2XL is applied preemergence or postemergence at specified dosages and weed stages.

barnyardgrass †
bedstraw, catchweed
bittercress, lesser
bluegrass, annual †
buckwheat, wild
burclover
carpetweed
clover, red †
clover, white †
cocklebur, common
crabgrass, large †
fiddleneck, coast †
filaree, broadleaf
filaree, redstem
fireweed (from seed)
flixweed
foxtail, giant †
goosegrass †
groundcherry, cutleaf
groundcherry, wright
groundsel, common
henbit
jimsonweed
knotweed, prostrate
ladysthumb
lambsquarters, common
lettuce, prickly
mallow, little
mayweed
minerslettuce
morningglory, ivyleaf †
morningglory, tall †
mustard, blue
mustard, tumble
mustard, wild
nettle, burning
nightshade, black
nightshade, hairy
oats, wild
orach, red
pepperweed, yellowflower
pigweed, prostrate
pigweed, redroot
pimpernel, scarlet
purslane, common
redmaids
rocket, London
sandspurry, red
shepherdspurse †
sida, prickly
smartweed, Pennsylvania
sorrel, red (from seed)
sowthistle, annual
speedwell, birdseye
spurge, prostrate ††
spurge, spotted ††
spurry, corn
tansymustard
thistle, bull ††
thistle, Russian
velvetleaf
witchgrass
woodsorrel, yellow ††

† Highest rate and/or multiple applications may be required for acceptable control.
†† Preemergence control only.

Conifer Seedbeds

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

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Goal 2XL provides both postemergence and residual preemergence control of many broadleaf weeds and annual grass species.

Seeded conifers are tolerant to preemergence and postemergence applications of Goal 2XL. For weed control during the establishment of conifer seedlings, Goal 2XL can be applied after seeding of conifers, but prior to emergence. For weed control in emerged conifers, Goal 2XL may be applied over-the-top, but application should be delayed a minimum of 5 weeks after seedling emergence. If application is made during cool, cloudy weather, make certain that seedlings have hardened-off prior to spraying.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	1 - 4	**Application after planting, but prior to emergence of conifer seedlings:** Where grass weeds are present, apply 2 to 4 pints of Goal 2XL per acre. In known areas of high weed competition, apply 4 pints of Goal 2XL per acre. Broadcast to beds and irrigate with 1/2 to 3/4 inch of sprinkler irrigation before weed emergence. Goal 2XL is most effective on annual grasses when applied preemergence.
Postemergence	1 - 2	**Application after emergence of conifer seedlings:** Application should be made to seedling weeds less than 4 inches in height (seedling grasses not exceeding the 2-leaf stage). Depending of subsequent weed flushes, multiple applications may be necessary to achieve season-long weed control.
Chemigation: Goal 2XL may be applied at labeled rates through sprinkler irrigation systems. For center pivot irrigation systems, apply the specified dosage of Goal 2XL per acre metered at a continuous uniform rate during the entire irrigation period, otherwise meter Goal 2XL at a continuous uniform rate during the middle 1/3 of the irrigation period. When applying by sprinkler irrigation, follow directions given in the Chemigation Instructions section of this label.		
Precautions: • Occasionally spotting, crinkling, or flecking may appear on leaves of conifers. Leaves that receive direct spray or drift may be injured, but typically outgrow this condition rapidly and develop normally.		
Crop-Specific Restrictions: • Do not apply more than 8 pints of Goal 2XL per acre per year.		

Goal 2XL may be applied to conifer seedbeds of the following species:
Important: When applied as directed, the conifer species listed on this label have shown tolerance to Goal 2XL. It is impossible, however, to evaluate this product on all varieties, biotypes and cultivars of listed species under all possible growing conditions. Until familiar with results under local growing conditions, the user should exercise reasonable judgment and caution with this product. Limit application of this product to a few plants in a small area to determine plant tolerance and extent of injury if such occurs, prior to initiating large-scale applications.

Douglas fir	*Pseudotsuga menziesii*
Fir	Fraser (*Abies fraseri)* Grand (*Abies grandis)* Noble (*Abies procera*)
Hemlock	Eastern hemlock (*Tsuga canadensis)* Western hemlock *(Tsuga heterophylla)*
Pine	Austrian (*Pinus nigra)* Eastern White (*Pinus strobus)* Himalayan (*Pinus wallichiana)* Jack (*Pinus banksiana)* Loblolly (*Pinus taeda)* Lodgepole (*Pinus contorta)* Longleaf (*Pinus palustris)* Monterey (*Pinus radiata)* Mugho (*Pinus mugo)* Ponderosa (*Pinus ponderosa)* Scotch (*Pinus sylvestris)* Shortleaf (*Pinus echinata)* Slash *(Pinus elliottii)* Virginia *(Pinus virginiana)*
Spruce	Blue (*Picea pungens)* Dwarf (*Picea glauca Conica)* Norway*(*Picea abies)* Sitka* (*Picea sitchensis)*

*For Use only in South Carolina

Conifer Transplants And Container Stock (Includes 2-0 Seedling And Christmas Tree Plantings)

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

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- shoes plus socks

Many container-grown conifers and conifer transplants are tolerant to preemergence and postemergence applications of Goal 2XL. Applied postemergence, Goal 2XL provides postemergence control of emerged weeds and preemergence residual control of many broadleaf weeds and grasses (see Key Weeds Controlled) at the beginning of this section.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 8	**Transplanted and Container Grown Conifers:** For best results, preemergence applications should be made immediately after transplanting seedlings or to weed-free container stock. Postemergence applications should be made to weeds less than 4 inches in height. Two applications may be necessary, in fall-transplanted conifer fields, for season-long weed control. The addition of a non-ionic surfactant (0.25% v/v) labeled for application to growing crops, enhances the activity of Goal 2XL on emerged weeds.
Precautions: • Do not make over-the-top applications during periods of active conifer growth. Apply only before bud break or after new terminal growth has hardened off.		
Crop-Specific Restrictions: • Do not apply more than 8 pints of Goal 2XL per acre in a single application or more than 16 pints per acre per year.		

In addition to those conifer species listed under the Conifer Seedbed section, the following conifer species have been shown to be tolerant to Goal 2XL:

Arborvitae	*Thuja occidentalis* *Thuja orientalis*
Juniper	*Juniperus chinensis* *Juniperus horizontalis* *Juniperus procumbens* *Juniperus sabina* *Juniperus scopulorum*
Red cedar	*Juniperus virginiana*
Western Hemlock	*Tsuga heterophylla*
Yew	*Taxus species*

Selected Field-Grown Deciduous Trees

Listed field-grown deciduous trees are tolerant only to directed spray applications of Goal 2XL. Goal 2XL provides both preemergence and postemergence control of listed broadleaf weeds and grasses.

Timing to Crop: Apply Goal 2XL to established deciduous trees or after transplanting. For optimum weed control, applications should be made prior to weed germination. Apply only as a directed spray to soil beneath the trees.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Early postemergence	2 - 6	Goal 2XL may be applied to established deciduous trees or after transplanting as a single or split application. Apply as a directed spray to the soil surface. Use spray shields to reduce exposure of foliage and bark. The addition of a non-ionic surfactant (0.25% v/v) labeled for application to growing crops, will enhance herbicidal activity on emerged weeds. **Spot Application:** Spot treatments at specified rates may be used to control localized weed infestations. See use directions for Spot Application in the Application Methods and Recommended Cultural Practices section.

Tank Mixing: For broader spectrum control, Goal 2XL may be tank mixed with other preemergence or postemergence herbicides registered for this use in deciduous trees. Refer to Mixing Directions section for Tank Mixing Precautions.

Precautions:
- For maximum crop safety, directed applications should be prior to budbreak in the spring or after trees have initiated dormancy in the fall. Avoid contact of spray or drift with foliage or stems with green bark. Application after bud swell may result in crop injury. If a non-dormant application is required due to weed competition, apply only after foliage has fully expanded and hardened off. Use only directed sprays and spray shields to prevent spray contact with stems with green bark or foliage.
- Do not apply Goal 2XL to trees that have been weakened or are under stress from excessive fertilizer or soil salts, disease, nematodes, frost, wind injury, drought, flooding, previously applied pesticides, insects, or winter injury as severe injury may result.

Crop-Specific Restrictions:
- Do not apply more than 6 pints of Goal 2XL per acre per year.
- Do not apply to bearing treefruit, nut and vine crops. For selected bearing treefruit, nut and vine crops, refer to Treefruit/Nut/Vine section of this label for use directions.
- Do not graze or feed livestock forage cut from areas treated with Goal 2XL.

Goal 2XL may be applied to the following deciduous tree species:

Almond ††	*Prunus spp.*
Apple ††	*Malus X domestica*
Apricot ††	*Prunus spp.*
Ash, Green Ash, White	*Fraxinus pennsylvanica* *Fraxinus americana*
Birch, River	*Betula nigra*
Cherry ††	*Prunus spp.*
Chestnut ††	*Castanea* spp.
Crabapple ††	*Malus spp.*
Cottonwood	*Populus* spp.
Dogwood	*Cornus florida*
Eucalyptus	*Eucalyptus viminalis* *Eucalyptus pulverulenta* *Eucalyptus camaldulensis*
Filbert ††	*Corylus* spp.
Lilac	*Syringa vulgaris*
Locust, Black	*Robinia pseudoacacia*
Maple, Black † Maple, Red † Maple, Sugar †	*Acer nigrum* *Acer rubrum* *Acer saccharum*
Myrtle, Crepe	*Lagerstroemia indica*
Nectarine ††	*Prunus* spp.
Nut, Hickory ††	*Carya* spp.
Nut, Macadamia	*Macadamia ternifola*
Oak, Chestnut Oak, Cherrybark Oak, Nutt All Oak, Pin Oak, Red Oak , Water Oak, Willow	*Quercus prinus.* *Quercus pagoda* *Quercus nuttallii* *Quercus palustris* *Quercus. rubra* *Quercus nigra* *Quercus phellos*
Olive, Russian	*Elaeagnus angustifolia*
Poplar Poplar, Tulip	*Populus* spp. *Liriodendron tulipifera*
Peach ††	*Prunus persica*
Pear ††	*Pyrus* spp.
Pecan ††	*Carya* spp.
Pistachio ††	*Pistacia vera*
Plum ††	*Prunus* spp.
Prune ††	*Prunus* spp.
Redbud	*Cercis canadensis*
Sweetgum	*Liquidambar styraciflua*
Sycamore	*Platanus occidentalis*
Walnut, Black ††	*Juglans nigra*

† Do not apply to maple trees used for production of maple sap or maple syrup.

†† Apply only to nonbearing trees. For bearing treefruit, nut and vine crops, refer to specific use directions in the Treefruit/Nut/Vine section of this label.

Cotton

Application Methods and Equipment: Goal 2XL may be applied as a post-direct spray to cotton a minimum of 6 to 8 inches tall. Care must be exercised to avoid spray contact with the cotton leaves. Use rigid precision ground spray equipment and spray shields to prevent spray contact with cotton foliage. Use branch lifters or shields, as necessary, to avoid contact of directed sprays with cotton plant.

Accurate, placement of spray nozzles is essential for uniform coverage of weeds and to minimize injury to cotton plants. Use a minimum broadcast spray volume of 20 gallons per acre and operate the sprayer at the minimum spray pressure listed by the spray nozzle manufacturer. Goal 2XL may be applied as a post-direct spray with only 2 flat fan nozzles per row (1 nozzle on each side of the row). For optimum coverage, use 4 flat fan nozzles per row (2 nozzles on each side of the row). The 2 forward nozzles should point forward and downward while the rear nozzles should point to the rear and downward. With either sprayer setup, nozzles should be carefully adjusted to cover the weed foliage with minimum contact to cotton plants. Goal 2XL may also be applied as a band application. **Do not use hollow cone nozzles.**

Tank Mixing: For control of additional broadleaf and grass weeds, Goal 2XL may be applied as a postemergence directed spray in tank mix combination with other herbicides registered for postemergence use in cotton (see Tank Mixing Precautions under Mixing Directions).

Weed Control	Rate (pt/acre)	Specific Use Directions
Postemergence	1 - 2	Apply as a post-directed spray. For optimum control, use the 2 pint per acre rate on actively growing weed seedlings with no more than 4 true leaves (not counting cotyledon leaves). Effective control of succulent weeds at the 2- to 3-leaf stage can usually be obtained at the 1 pint per acre rate. See Mixing Directions for surfactant recommendations. Where available, irrigation may be applied prior to application of Goal 2XL to encourage maximum weed emergence. Irrigation following application will improve preemergence activity of Goal 2XL against nightshade and groundcherry species.
Precautions: • Do not apply to cotton less than 6 inches tall or severe crop injury will result. • Exercise care to avoid spray contact with cotton leaves. Leaves accidentally sprayed will exhibit necrotic (dead) spots and may be dropped from the plant. Crop injury may be enhanced if application is made when excessive soil moisture is present or rainfall occurs immediately after application, however, cotton will outgrow this condition and develop normally.		
Crop-Specific Restrictions: • **Western Cotton (AZ and CA):** Do not apply more than 2 pints (0.5 lb active) of Goal 2XL per acre in a single application, or more than a total of 4 pints (1.0 lb active) of Goal 2XL per broadcast acre per season as a result of multiple applications. Do not apply within 75 days of harvest. • **Southern Cotton (All other states):** Do not apply more than 2 pints (0.5 lb active) of Goal 2XL per acre of per season as a result of a single application or multiple applications. Do not apply within 90 days of harvest.		

Key Weeds Controlled:

Postemergence			
cocklebur, common croton, tropic groundcherry, cutleaf groundcherry, Wright jimsonweed	lambsquarters, common morningglory, annual (up to 6 leaf) nightshade, American black nightshade, black	nightshade, hairy pigweed, redroot poinsettia, wild † purslane, common sesbania, hemp	sicklepod †† sida, prickly (teaweed) † smartweed, pennsylvania velvetleaf

† Multiple applications may be required for acceptable control.
†† Post-direct applications of Goal 2XL will control or suppress seedlings not exceeding the one true leaf stage.

Cottonwood

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 6	Goal 2XL may be applied as a single or split application. Apply as a directed spray to soil at the base of cottonwood trees. Use the higher rate in the rate range for extended preemergence weed control or for postemergence control of weeds up to the 6 leaf stage. The addition of a non-ionic surfactant at 2 pints per 100 gallons of spray will enhance the postemergence activity of Goal 2XL on emerged weeds.
Precautions: • Apply Goal 2XL immediately after transplant only to dormant healthy cottonwood stock. • In established stands, do not allow sprays of Goal 2XL to contact cottonwood foliage. In newly established cottonwood plantings, use spray shields, if necessary, to prevent exposure of green bark and foliage.		
Crop-Specific Restrictions: • Do not apply more than 6 pints per acre of Goal 2XL in a single application or more than 18 pints per acre per year.		

Key Weeds Controlled:

groundsel, common knotweed, prostrate lambsquarters, common	mustard, hedge shepherdspurse smartweed, Pennsylvania

Deciduous Tree Plantings

(Distribution and Use Only in the States of Louisiana and Mississippi)

Goal 2XL herbicide is an effective herbicide for preemergence and postemergence control of certain broadleaf weeds in deciduous tree plantings. In new plantings, over-the-top applications of Goal 2XL herbicide should be made soon after transplanting of dormant deciduous tree seedlings. Subsequent applications can be made to nondormant, fully foliated trees. Over-the-top applications to nondormant trees may result in minor discoloration and spotting of the foliage; however, trees will outgrow this condition. Leaves that are fully expanded and hardened off will exhibit less injury than newly emerged leaves or new bud growth. Applications to newly emerged leaves and/or new bud growth will result in leaf injury and is done at the user's risk.

Dosage: Goal 2XL herbicide may be applied at 2 to 8 pints (0.5 to 2lb active) per broadcast acre for preemergence and postemergence weed control. A maximum of 8 pints of Goal 2XL herbicide (2.0 lb active) per acre per season may be applied as a result of single or multiple applications. The addition of 1 quart of LA TRG~ A G-98 or a comparable 80% active nonionic surfactant per 100 gallons of spray mix will assist in spray coverage and wetting of weeds for postemergence coverage.

Deciduous Species

Cottonwood, Eastern	Populus deltoides
Oak, Cherrybark	Quercus pagoda
Oak, Nutt All	Quercus nuttallii
Sweetgum	Liquidambar styracifula
Sycamore	Platanus occidentalis

Selected deciduous trees listed on this label have shown tolerance to Goal 2XL herbicide. It is impossible, however, to evaluate this product on all varieties, biotypes and cultivars of listed species on this label under all possible growing conditions. The user should exercise reasonable judgment and caution with this product. Until familiar with results under use growing conditions, limit application of this product to a small treated area to determine plant tolerance and extent of injury if such occurs, prior to initiating large-scale applications.

Weeds Controlled: When Goal 2XL herbicide is applied preemergence or postemergence to weed seedlings (not exceeding 4- to 6-leaf stage) at specified dosages, the following broadleaf weeds are controlled:

Croton, Tropic	Nightshade, Black
Groundcherry, Cutleaf	Nightshade, Hairy
Groundcherry, Wright	Pigweed, Redroot
Groundsel, Common	Purslane, Common
Jimsonweed	Sesbania, Hemp
Knowtweed, Prostrate	**Sida, Prickly (Tea Weed)
Morningglory, Annual	Smartweed, Pennsylvania
Mustard, Hedge	Velvetleaf
Nightshade, American Black	

*Postemergence up to 4- to 6-leaf stage.
**Highest rate or multiple applications may be required for acceptable control.

Timing and Method of Application: For optimum weed control, a dormant over-the-top application of Goal 2XL herbicide should be made prior to weed seedling emergence followed by a postemergence application after tree foliage have fully expanded. For weed management programs using only a single application per season, apply Goal 2XL herbicide preemergence.

Goal 2XL herbicide should be applied at 20 to 40 psi in a minimum of 20 gallons of water per acre depending upon density of emerged weeds. Spray volume should be increased as weed height and density increase. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

Mixing Directions: Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the specified amount of herbicide to the spray tank. Complete filling of the spray tank with water. Maintain agitation until spraying is complete.

Eucalyptus

Apply Goal 2XL for preemergence and postemergence control of listed broadleaf weeds in established eucalyptus plantings.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 6	**Directed Spray:** Goal 2XL may be applied as a single or split application. Apply as a directed spray to soil at the base of eucalyptus trees. Use the higher rate in the rate range for extended preemergence weed control or for postemergence control of weeds up to the 6 leaf stage. The addition of a non-ionic surfactant at the rate of 2 pints per 100 gallons of spray will enhance the postemergence activity of Goal 2XL on emerged weeds. **Over-the-Top Application:** In new plantings, apply Goal 2XL just before or immediately after transplanting eucalyptus seedlings that are in a dormant condition (i.e., leaves may be present, but terminal growth has hardened off and terminal buds have formed). In established plantings, Goal 2XL may be applied as an over-the-top spray when plants are in a dormant condition.
Precautions: • At transplant, apply Goal 2XL only to healthy "dormant" healthy eucalyptus stock. In established plantings, use spray shields, if needed, to prevent exposure of foliage and bark of small and/or actively growing plants. • To avoid phytotoxicity, make over-the-top applications only to eucalyptus trees in a dormant condition. Do not make over-the-top applications after bud break and resumption of active growth.		
Crop-Specific Restrictions: • Do not apply more than 6 pints of Goal 2XL per acre in a single application or more than 18 pints per acre per year.		

Key Weeds Controlled:

Preemergence		Postemergence	
burclover cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate	lambsquarters, common lettuce, prickly pigweed, redroot redmaids rocket, London shepherdspurse sowthistle, annual spurge, prostrate spurge, spotted	cheeseweed (malva) fiddleneck, coast filaree, broadleaf † filaree, redstem † filaree, whitestem † groundsel, common henbit minerslettuce nettle, burning	pigweed, redroot redmaids shepherdspurse sowthistle, annual

† At the 6-pint rate, Goal 2XL will provide control of filaree up to the 6-leaf stage.

Use on Fallow Beds

Not for use prior to planting soybeans in California

Used alone or in tank mix combination with glyphosate, Goal 2XL provides preemergence and/or postemergence control of winter annual broadleaf weeds on land to be planted to crops.

Prior to planting, treated fallow beds should be thoroughly tilled (incorporated) to a depth of at least 2.5 inches. Goal 2XL is no longer herbicidally effective once the active layer in the soil surface is disrupted by soil incorporation.

Aerial Application: Goal 2XL may be aerially applied for weed control in fallow beds. Follow requirements for Aerial Application in the Product Information section of this label.

Minimum Treatment to Planting Intervals for listed crops:

Direct Seeded Crops	Minimum Treatment-to-Planting Interval	
	Goal 2XL (up to 1 pint/acre)	**Goal 2XL (>1 to 2 pints/acre)**
carrot	90 days	90 days
cotton	7 days	7 days
potato	60 days	60 days
sugar beet	60 days	90 days
other root/tuber crops	90 days	90 days
onions	180 days	180 days
other bulb vegetables	180 days	180 days
cabbage	90 days	90 days
cauliflower	90 days	90 days
other brassica crops	120 day	120 days
lettuce	90 days	120 days
other leafy vegetables (except brassica crops)	120 days	120 days
pepper	90 days	120 days
tomato	60 days	120 days
other fruiting vegetables	120 days	120 days
cantaloupe	60 days	90 days
squash	90 days	120 days
watermelon	60 days	60 days
other cucurbits	90 days	120 days
dry beans	60 days	60 days
peanut	60 days	60 days
other legume vegetables	60 days	60 days
safflower	60 days	60 days
Soybeans (Except California)	7 days	7 days
cereal grains: Including barley, buckwheat, corn, proso millet, pearl millet, oats, popcorn, rice, rye, sorghum, triticale, wheat, and wild rice	10 months	10 months

Transplanted Crops	Minimum Treatment-to-Planting Interval	
	Goal 2XL (up to 1 pint/acre)	**Goal 2XL (>1 to 2 pints/acre)**
celery	30 days	30 days
conifer	0 days	0 days
garlic	0 days	30 days
grape/kiwi	0 days	0 days
onion	0 days	30 days
pepper	30 days	30 days
strawberries	30 days	30 days
tomato	30 days	30 days
treefruit/nut/citrus	0 days	0 days

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	1 - 2	Use 20 or more gallons of spray volume per acre and increase spray volume for dense weed growth. Use the 1 pint per acre rate for up to 4 weeks of preemergence control and postemergence control of susceptible weeds up to 4-leaf stage. Use the 2 pint per acre rate for up to 8 weeks of preemergence control and postemergence control of susceptible weeds up to 6-leaf stage. Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks after application. A tank mix with glyphosate is recommended if the treatment area contains dense weed populations, oversized weed seedlings, volunteer grains, annual grasses or under unfavorable environmental conditions. **Outside of California:** For enhanced contact activity (burndown/suppression) tank mix 6.5 fl oz of Goal 2XL with the labeled rate of either glyphosate or paraquat (Gramoxone). Apply at the application rate and weed growth stages specified in the respective tank mix product label.

Precautions:
- **Failure to achieve thorough and complete incorporation, or to follow the specified treatment-planting interval, may result in stand reduction and/or vigor reduction of the planted crop.**
- Crop injury may be enhanced if newly seeded crops or transplants are under stress due to drought, flooding, excessive fertilizer or soil salts, low soil temperatures, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects or diseases.
- **Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.**

Crop-Specific Restrictions:
- Do not apply more than 2 pints of Goal 2XL per acre per fallow season.

Key Weeds Controlled: Goal 2XL provides preemergence and postemergence control of the following weeds on fallow beds: †

buttercup, smallflower	geranium, Carolina	mustard species	rocket, London
cheeseweed (malva)	groundcherry, cutleaf	nettle, burning	shepherdspurse
eveningprimrose, cutleaf ††	groundsel, common	oxalis	sida, prickly
fiddleneck, coast	henbit	pigweed, redroot	sowthistle, annual
filaree, broadleaf	ladysthumb	purslane, common	velvetleaf (wild cotton)
filaree, redstem	minerslettuce	redmaids	

† Thorough spray coverage is essential to maximize the postemergence activity of Goal 2XL. For postemergence control when applied by air, a tank mixture of Goal 2XL with either glyphosate or paraquat (Gramoxone) is recommended.
†† Requires maximum rate and/or multiple applications for effective control.

Fallow-Bed Use Prior to Transplanting Strawberries or Peppers Grown in Plastic Culture

California Only
Goal 2XL may be applied broadcast or banded as a fallow bed application to pre-formed beds prior to planting of strawberries or peppers grown in plastic culture.

It is recommended that soil moisture be used to activate Goal 2XL using one of the following practices soon after application.

- Irrigate the beds with 1/2 inch of sprinkler irrigation and then put plastic down anytime during the 30-day treatment-to-planting interval.
  (or)
- If there is adequate existing soil moisture, apply plastic to the beds as soon as possible after application and allow the moisture which condenses and accumulates beneath the plastic to thoroughly wet the treated soil.

Mechanical incorporation of the fallow-bed treatment prior to laying plastic is not required. Not disturbing the soil surface may allow for extended weed control. Not incorporating increases the potential for crop injury, especially under wet conditions. Therefore, the treatment should be incorporated if the risk of crop injury is not acceptable. Follow the minimum treatment-to-planting intervals outlined below (also found on the main product label).

Minimum Treatment-to-Planting Interval:

	Goal 2XL Use Rate	
Transplanted Crops	**Up to 1 pt/acre**	**Up to 2 pt/acre**
Pepper	**30 days**	**30 days**
Strawberries	**30 days**	**30 days**

Fallow Beds in Plastic Culture Prior to Transplant

Florida, Georgia, North Carolina, South Carolina and Virginia Only

Goal 2XL is effective as a preemergence broadcast or banded treatment to pre-formed beds as a fallow bed application prior to planting of peppers, strawberries or tomatoes grown in plastic culture.

Plastic may be put down anytime during the 30-day treatment-planting interval. Incorporation of the fallow-bed treatment prior to laying plastic is not required and may allow extended weed control. However, not incorporating increases the potential for crop injury, especially under wet conditions. Therefore the treatment should be incorporated if the risk of crop injury is not acceptable. Follow the minimum treatment-planting intervals outlined below (also found on the main product label).

Minimum Treatment-Planting Interval:

	Goal 2XL Use Rate	
Transplanted Crops	**Up to 1 pt/acre**	**Up to 2 pt/acre**
Pepper	**30 days**	**30 days**
Strawberries	**30 days**	**30 days**
Tomato	**30 days**	**30 days**

Partial List of Weeds Controlled: Pigweed, Ragweed, Nightshade, Florida pusley, Common purslane, Carolina geranium, Cutleaf evening primrose †.

† Requires maximum rate and/or multiple applications for effective control.

Fallow Beds to be Planted to Corn

Arkansas, Louisiana, and Mississippi Only

Goal 2XL alone or in tank mix combination glyphosate or paraquat (Gramoxone herbicide) is effective for the control of winter annual broadleaf weeds in fallow beds to be planted to corn. Once a fallow bed application is made, the soil surface should be left undisturbed for the period of time in which weed control is desired. If a fallow bed treatment is applied thirty or more days before planting corn and at least three significant rainfalls (0.25 inch or greater) have occurred following application, corn can be planted directly into the stale seedbed. Otherwise, the fallow bed treatment should be thoroughly incorporated into the soil to a depth of two inches or more prior to planting.

Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.

Weeds Controlled: **Goal 2XL should provides preemergence and postemergence control of the following weeds when used at recommended dosages and weed stage. †**

buttercup, smallflower
cheeseweed (malva)
eveningprimrose, cutleaf ††
fiddleneck, coast
filaree, broadleaf
filaree, redstem
geranium, Carolina
groundcherry, cutleaf
groundsel, common
henbit
ladysthumb
minerslettuce
mustard species
nettle, burning
oxalis
pigweed, redroot
purslane, common
redmaids
rocket, London
shepherdspurse
sida, prickly
sowthistle, annual
velvetleaf (wild cotton)

† Thorough spray coverage is essential for optimum postemergence activity of Goal 2XL. For optimum postemergence control when applied by air, a tank mixture of Goal 2XL with either glyphosate or paraquat (Gramoxone®) is recommended.

†† Requires maximum rate for effective control.

Application Rates (Goal 2XL Used Alone)

Goal 2XL may be applied at 1 to 2 pints (0.25 to 0.5 lb active) per broadcast acre. The lower rate (1 pint per acre) should provide up to 4 weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds (up to 4-leaf stage). The higher rate (2 pints per acre) should provide preemergence control of susceptible weeds for up to 8 weeks and postemergence control of susceptible weeds (up to 6-leaf stage). Best preemergence control is achieved when irrigation or rainfall occurs within 3 or 4 weeks following application.

Tank Mixes with Goal 2XL Herbicide
Important: Read and observe applicable use directions, precautions and limitation on the respective tank mix labels. In interpreting the labels of tank mix products, the most restrictive limitations must apply.

Application Rates: Goal 2XL can be tank mixed with either glyphosate or paraquat (Gramoxone herbicide) to obtain postemergence control of annual grass weeds, volunteer grains and broadleaf weeds. One to 2 pints of Goal 2XL (0.25 to 0.5 lb active) may be tank mixed with labeled rates of either glyphosate or paraquat. Apply at the recommended rates and growth stages for susceptible weed species and in a manner consistent with the tank mix product label.

For enhanced contact activity (burndown/suppression) of either glyphosate or paraquat, Goal 2XL at the rate of 3 to 7 fl oz per acre (0.05 to 0.1 lb. active) may be added to labeled rates of either glyphosate or paraquat. Apply at the recommended rates and growth stages for susceptible weed species and in a manner consistent with the tank mix product label.

Method of Application (Ground or Aerial Application)
Apply Goal 2XL in a spray volume of 20 or more gallons per acre with ground equipment. Increase the spray volume, if necessary, to ensure thorough coverage of existing weeds. Use a spray volume of 10 or more gallons per acre (5 or more for glyphosate tank mix) when aerially applying. Carefully follow aerial application requirements and advisory information in the Fallow Bed section of the product label for Goal 2XL.

Fallow Bed - Specific Use Restrictions (Mississippi, Arkansas and Louisiana)
In addition to the following, also observe Use Restrictions listed at the beginning of this label.

- Do not apply more than 2 pints (0.5 lb active) of Goal 2XL per acre per fallow season.
- **Chemigation:** Under this SLN label, do not apply this product through any type of irrigation system.
- Do not apply Goal 2XL within 7 days before planting of corn.
- Do not use corn plants from a treated field for green chop, ensilage, forage or fodder.
- Goal 2XL herbicide is phytotoxic to plant foliage. Do not apply when weather conditions favor drift. Avoid drift to all non-target areas.
- The use of any plants from a treated field for green chop, ensilage, foreage or fodder or the feeding or grazing of animals on any treated area is prohibited; PHI is 60 days.

Fallow Beds to be Planted to Corn

California Only

Goal 2XL is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate, paraquat or other registered postemergence herbicides for the control of annual broadleaf weeds in fallow beds to be planted to field corn.

Before planting field corn, treated soil must be thoroughly mixed to a depth of at least 2.5 inches. Failure to achieve thorough soil mixing may lead to crop injury and/or stand loss. Weed control should not be expected after soil incorporation.

At least 0.25 inch of irrigation or rainfall is required to activate Goal 2XL and should occur within 3 to 4 weeks after application.

Use a tank mix with glyphosate, paraquat or another registered postemergence herbicide if the treatment area contains dense weed populations, oversized weed seedlings, volunteer grains or annual grasses.

Exercise extreme care to avoid herbicide contact with any desirable dormant or non-dormant crop, plant, tree or vegetation as severe injury may result.

Goal 2XL Used Alone: Goal 2XL may be applied at 1 to 2 pints (0.25 to 0.5 lb. active) per acre. The lower rate (1.0 pint per acre) should provide up to four weeks of preemergence control of susceptible weeds and provide postemergence control of susceptible weeds up to four-leaf stage. The higher rate (2.0 pints per acre) should provide preemergence control of susceptible weeds for up to eight weeks and postemergence control of susceptible weeds up to six leaf-stage.

Tank Mixes with Goal 2XL: When tank mixing, always read and follow all individual manufacturer's labels. In interpreting all labels for the tank mix, the most restrictive situations must apply. Goal 2XL can be tank mixed with glyphosate , paraquat or other registered postemergence herbicides for postemergence control of annual weed grasses, volunteer grains and broadleaf weeds. Tank mix 1 to 2 pints (0.25 to 0.5 lb. active) of Goal 2XL with labeled rates of glyphosate, paraquat or other registered postemergence products. Apply at the specified rates and growth stages to susceptible weed species in a manner consistent with the respective labels.

Ground Application: Goal 2XL should be applied in a minimum of 20 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

Aerial application: Goal 2XL may be aerially applied for weed control on fallow beds. Follow requirements for aerial application in the general information section of the main product label.

Avoid Drift: When applying to fallow beds, extreme care must be exercised to prevent spray drift, which could result in damage to other crops or desirable vegetation**.**

Crop injury may be enhanced if newly seeded crops are under stress due to drought, flooding, excessive fertilizer or soil salts, low soil temperatures, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects or diseases.

Restrictions (California Only)
- Follow all applicable use directions, precautions, restrictions, and Worker Protection Standard requirements on the EPA registered label.

- **Maximum application rate:** Do not apply more than 2 pints (0.5 lb active ingredient) per acre, per fallow season. Do not apply more than 0.5 lb of oxyfluorfen active ingredient per acre per fallow season as a result of single or multiple applications of this or other oxyfluorfen formulations.
- Do not apply Goal 2XL within 60 days prior to planting of field corn.
- Before planting field corn, treated soil must be thoroughly mixed to a depth of at least 2.5 inches.
- **Chemigation:** For uses described in the supplemental labeling, do not apply this product through any type of irrigation system.
- Do not use on sweet corn.
- The use of any plants from a treated field for green chop, ensilage, foreage or fodder or the feeding or grazing of animals on any treated area is prohibited.
- Application may be made in a minimum of 20 gal of water/A using ground equipment or 5 gal/A by air. Applications may be made alone or as a tank mix with other herbicides.
- Do not apply more than 0.5 lb ai per year

Garbanzo Beans

For Use Only in Arizona and California

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	1	Apply after planting but prior to weed or crop emergence as a single broadcast application using a spray volume of 20 or more gallons of water per acre.
Precautions: • Garbanzo beans are tolerant to preemergence application of Goal 2XL, however, under certain conditions, severe but temporary crop injury may occur. A heavy splashing rain shortly after crop emergence or wet soil conditions during early growth stages can cause leaf cupping, crinkling, stunting or defoliation of the garbanzo seedlings. Injury, when it occurs, it is usually limited to the first few leaves that develop after plants emerge from the soil. Delays in crop development and/or maturity may result, but Garbanzo beans do recover with little to no impact on yield.		
Crop-Specific Restrictions: • Do not apply more than 1 pint per acre of Goal 2XL in a single application. • Do not use bean vines for livestock feed or hay.		

Key Weeds Controlled:

Preemergence	
groundsel, common mallow, little	rocket, London shepherdspurse

Ground or Aerial Application of Goal 2XL on Fallow Beds To Cotton or Soybeans

Not For Use On Fallow Beds To Be Planted To Soybeans In California

For Use in Alabama, Arkansas, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas and Virginia

Goal 2XL is effective as a preemergence and/or postemergence herbicide when used alone or in a tank mix combination with glyphosate (Glyphomax) or paraquat (Gramoxone) for the control of winter annual broadleaf weeds in fallow beds to be planted to either cotton or soybeans.

Weeds Suppressed By Preemergence Application: Goal 2XL may be applied at 1 to 2 pints (0.25 to 0.5 lb active) per broadcast acre. Goal 2XL should provide preemergence suppression of the following weeds when used at specified dosages and weed stage.

HORSEWEED (MARESTAIL)	*Conyza canadensis*
RYEGRASS, ITALIAN	*Lolium multiflorum*

Garlic

Agricultural Use Requirements: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

For optimum preemergence weed control, the soil surface should be smooth and free of excessive trash (clippings, plant residues, etc.). Following application, cultural practices which result in redistribution or disturbance of the soil surface or move untreated soil into treated areas will reduce weed control.

Direct Seeded Garlic (Postemergence Application):		
Weed Control	**Rate (per acre)**	**Specific Use Directions**
Postemergence	2 - 4 fl oz	**Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont:** Apply Goal 2XL at 2 to 4 fl oz per acre to direct seeded garlic that has at least 3 fully developed true leaves using ground equipment. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. Multiple treatments at 2 to 4 fl oz per acre may be applied up to a maximum of 2 pints (32 fl oz) per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4 leaf stage and actively growing. Application to weeds at later than 4 leaf growth stage may result in reduced weed control.
Postemergence	0.5 - 1 pt	**Arizona, Colorado, Idaho, Nevada, New Mexico, Oregon, Texas, Utah and Washington:** Apply Goal 2XL at 0.5 to 1 pt per acre to direct seeded garlic that has at least 2 fully developed true leaves using ground equipment. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. Multiple treatments at 0.5 to 1 pt per acre may be applied up to a maximum of 2.0 pints per acre pre use season. For optimum postemergence weed control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing. Application to weeds at later than the 4 leaf growth stage may result in reduced weed control. **Post-directed Application (Nevada Only):** Apply Goal 2XL as a post-directed to garlic that is at least 12 inches tall. Accurate, uniform placement of directed postemergence sprays is essential for effective weed control and to minimize injury to garlic. Use low-pressure sprays and a minimum spray volume of 20 gallons per acre. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing. Application at later than 4-leaf growth stage may result in reduced weed control.
Postemergence	0.5 pt	**All Other States:** Apply Goal 2XL at 0.5 pt per acre to seeded garlic that has at least 2 fully developed true leaves using ground equipment. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. Multiple treatments at 0.5 pt per acre may be applied up to a maximum of 2 pints per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4 leaf stage and actively growing. Application to weeds at later than the 4 leaf growth stage may result in reduced weed control.

Direct Seeded Garlic (California Only)		
Weed Control	**Rate (per/acre)**	**Specific Use Directions**
Preemergence Postemergence	1 pt	**Application after planting but prior to garlic emergence:** Apply Goal 2XL after planting, but prior to crop emergence, for preemergence control of listed broadleaf and grass weeds using ground, air or sprinkler irrigation (chemigation). **Aerial application:** Apply in a minimum spray volume of 10 gallons per acre. Follow Aerial Application instructions and precautions in the Product Information section of this label.

Direct Seeded Garlic (California Only) (Cont.)		
Weed Control	**Rate (per/acre)**	**Specific Use Directions**
Preemergence Postemergence	1 pt	**Postemergence and directed application:** Apply Goal 2XL as a directed spray to garlic that is at least 12 inches tall. Accurate, uniform placement of directed postemergence sprays is essential for effective weed control and to minimize injury to garlic. Use low-pressure sprays and a minimum spray volume of 20 gallons per acre. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing. Application at later than 4-leaf growth stage may result in reduced weed control. **Sprinkler irrigation (portable lateral or solid set) preemergence or postemergence:** Apply Goal 2XL at the specified broadcast application rate using sufficient irrigation to wet soil to a depth of 2 inches. Apply after planting but prior to garlic emergence or postemergence when garlic is at least 12 inches tall. Follow the application directions and precautions for "Sprinkler Chemigation" given in the Chemigation section of this label.
Precautions: • **Garlic Response to Preemergence Applications of Goal 2XL:** Following a preemergence application of Goal 2XL, a chlorotic band around some of the leaves may be observed after the first irrigation (or rainfall) following garlic emergence. • **Garlic Response to Post-direct Applications of Goal 2XL:** Post-direct applications may cause chlorotic leaf banding, necrotic lesions, or stunting of the garlic plants. Symptoms will be more severe if applications are made during cool, wet, overcast, or foggy weather. Garlic will typically outgrow these conditions. A delay in crop development, maturity, reduced yields, or quality may result.		

Transplanted Garlic: Postemergence Application Immediately after Planting		
Weed Control	**Rate (per/acre)**	**Specific Use Directions**
Postemergence	2 - 4 fl oz	**Northeastern States, including Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont:** Multiple treatments at 2 to 4 fl oz per acre may be applied up to a maximum of 2 pints (32 fl oz) per acre pre use season.
Postemergence	up to 2 pt	**All States Except Northeastern States:** Transplanted garlic is most tolerant of a postemergence application immediately after transplanting. An application of up to 2 pints per acre may be made within two days after transplanting. If less than 2 pints per acre is applied, a second application can be made two weeks or more after transplanting. Adjust nozzles for minimum spray contact with garlic plants, directing the spray to the soil at the base of garlic plants and adjacent bed top and furrow area. Do not exceed the maximum use rate of 2 pints per acre of Goal 2XL per season as a result of multiple applications.

Key Weeds Controlled:

canarygrass (annual) eveningprimrose, cutleaf groundsel, common mallow, little (malva)	nightshade, black pigweed, prostrate † pigweed, redroot † puncturevine	purslane, common † rocket, London sage, lanceleaf	shepherdspurse † sowthistle, annual

† Key weeds controlled at specified rates in Northeastern States.

Garlic - Crop-Specific Precaution (Postemergence Application):
• Postemergence applications of Goal 2XL may cause chlorotic leaf banding, necrotic lesions, or stunting of the garlic plants. Symptoms may be more severe if garlic emerged under cool, wet, overcast, or foggy weather. These conditions are temporary and should not affect the vigor or development of garlic plants.

Garlic - Crop-Specific Restrictions (Applicable to All Methods of Application):
• In all states **except** Northeastern states, do not apply until **direct seeded** garlic plants have two (2) fully developed true leaves. In the Northeastern states, do not apply until direct seeded garlic plants have three (3) fully developed true leaves. Application made prior to the specified growth stage may result in serious crop injury. • Do not apply more than a total of 2 pints per acre of Goal 2XL per use season as a result of multiple applications. • Do not apply within 60 days of harvest. • In direct seeded garlic (except in California), do not apply Goal 2XL as a preemergence treatment. • Use only on dry bulb garlic. • Do not apply to garlic grown for seed. • For weed control in Garlic, do not mix Goal 2XL with oils, surfactants, liquid fertilizers or pesticides except as specified on approved Dow AgroSciences Supplemental Labeling. • Do not apply to garlic plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects, nematodes or diseases.

Grasses Grown for Seed (Established Perennial)

For Use Only in Oregon and Washington and Idaho

Weed Control	Rate (per/acre)	Specific Use Directions
Late preemergence to Early postemergence Fine fescues (Chewings, creeping red, and hard types)	8 fl oz	Make a single application of Goal 2XL at 8 fluid ounces (0.12 lb ai) per acre per season. The application should be applied before the weed seedlings to be controlled exceed the two-leaf growth stage **(Use Period: September 1 to December 15).**
Late preemergence to Early postemergence Kentucky bluegrass, tall fescue, orchardgrass, bentgrass, perennial ryegrass	8 – 24 fl oz	Apply as a broadcast application in a minimum spray volume of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at a minimum spray pressure of 30 psi. Do not exceed maximum spray pressure of 60 psi. Spray equipment should be calibrated prior to application. Select an application rate based on soil conditions, weed spectrum, weed stage of growth and/or desired period of residual weed control. The maximum rate of 24 ounces of Goal 2XL may be split, however, the initial application should be applied before the weed (or volunteer grass) seedlings to be controlled exceed the 2-leaf growth stage and no later than December 15. The final application must be completed prior to January 15. A maximum of 24 ounces of Goal 2XL (0.375 lb. active) per acre may be applied per season. Early treatment is important for control of seedling grasses. Apply Goal 2XL at the onset of grass seed germination during the initial fall rains or fall sprinkler irrigation (late preemergence). Application at the 1-leaf growth stage (early postemergence) may provide somewhat better control of volunteer crop seedlings than application at the 2-leaf stage. Ample soil moisture soon after application is required for optimum performance against seedling grasses. Goal 2XL will not control established perennial grasses or seedlings of most annual and perennial grasses beyond the six-leaf stage of growth. Applications to seedling grass weeds between the 2- and 6-leaf stage may result in partial control, but vary with weed species. Single applications made to seedlings between the 2- and 6-leaf growth stages will cause injury and stunting, but re-growth will usually occur. If seedlings have not died within 3 to 4 weeks after treatment and healthy green regrowth is visible, a second application may be needed. **Surfactant** For improved control of emerged weed seedlings, an 80% active nonionic surfactant cleared for application to growing crops may be added at a rate of 0.12 to 0.5% spray volume (1 to 4 pints/100 gal).

Grasses Grown for Seed (Established Perennial) (Cont.)

Precautions:
Crop Tolerance
The application of Goal 2XL to established perennial grass will result in a chlorosis (yellowing) within two weeks after treatment. These symptoms may be present for up to three months following application. The application of Goal 2XL may also result in a substantial reduction in vegetative growth of perennial grasses during the winter. Leaf chlorosis and reduction of vegetative growth is a typical and normal response, however, the seed yield from healthy, vigorous perennial grasses has not been affected by fall application of Goal 2XL. It is accepted by the grower that conditions under which seed yield may be reduced are not fully understood. Grazing may also magnify crop injury and reduce the seed yield.

Crop tolerance to Goal 2XL can be improved by limiting the amount of leaf tissue present on established perennial grasses at time of application by such methods as propane flaming, intensive mechanical clipping (crew cutting), or livestock grazing prior to application.

Tank mixtures and/or sequential applications of Goal 2XL with other herbicide products registered for use on grasses grown for seed may result in increased injury or stand loss. If a tank mixture is applied, applications should be made only to healthy, vigorous stands of perennial grasses. The decision to apply a tank mixture containing Goal 2XL is at the sole discretion of the grower and at the grower's risk.

Crop-Specific Restrictions:
- Chemigation: Do not apply this product through any type of irrigation system.
- Goal 2XL must be applied using ground equipment only.
- Do not apply more than 24 fluid ounces of Goal 2XL (0.375 lb active) per acre per season.
- Do not apply Goal 2XL within 150 days of harvesting grass hay in Oregon or within 365 days of harvesting grass hay in Idaho and Washington.
- **Do not graze fields that have been treated with Goal 2XL within 150 days of treatment in Oregon or within 365 days of treatment in Idaho and Washington as illegal residues may be present in the vegetative foliage**.

Weeds Suppressed and/or Controlled
Goal 2XL will control or suppress the following weeds and volunteer crops when applied between the onset of germination and the two-leaf seedling growth stage:

Common Name	Scientific Name
Bentgrass	*Agrostis species*
Bluegrass, Annual	*Poa annua*
Bluegrass, Kentucky	*Poa pratensis*
Bluegrass, Roughstalk	*Poa trivialis*
Brome, California (mountain) †	*Bromus carinatus*
Fescue, Fine (creeping red and Chewings)	*Festuca rubra*
Fescue, Hard	*Festuca longifolia*
Fescue, Rattail	*Vulpia myuros*
Fescue, Tall	*Festuca arundinacea*
Orchardgrass	*Dactylis glomerata*
Ryegrass, Italian	*Lolium multiflorum*
Ryegrass, Perennial †	*Lolium perenne*

† These species are suppressed but not fully controlled by Goal 2XL.

Grasses Grown for Seed
(Fall Seeded New Plantings of Perennial Ryegrass and Tall Fescue)

For Use Only in Oregon

Weed Control	Rate (per/acre)	Specific Use Directions
Early postemergence	2 – 3 fl oz	Use Goal® 2XL for early postemergence suppression/control of various annual broadleaf weed seedlings in fall seeded perennial ryegrass or tall fescue that has at least 1 to 2 tillers. Applications to seedling plants that have not yet tillered, may result in severe crop injury or stand loss (plant death). Apply a single application of Goal 2XL either alone or tank mixed with up to 3 pints per acre of Nortron 4SC. Some temporary crop injury may occur, but is typically only a transient effect and should not adversely impact yield. **Do not apply to newly planted stands that are under stress from any cause as there is an enhanced opportunity for crop injury to occur.** Control from the Goal 2XL is primarily directed at emerged seedling broadleaf weeds such as speedwell and groundsel, but control or suppression of other species is possible if tank mixed with Nortron. Overlaps (2X applications) will cause significant crop injury but should not result in excessive stand losses if the crop plants are at least 1 to 2 tillers when the applications are made. Tank mixtures of Goal 2XL with Nortron may result in enhanced crop injury. If a tank mixture is to be applied, applications should be made only to healthy, vigorous stands of perennial grasses. The decision to apply a tank mixture containing Goal herbicide is at the sole discretion of the grower and at the grower's risk. Apply as a broadcast application in a minimum spray volume of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at the manufacturer's specified spray pressure. Calibrate spray equipment before each use. **Use of Surfactant:** An 80 percent active nonionic surfactant cleared for application to growing crops may be added at a rate of 0.12 to 0.5 percent spray volume for improved control of emerged seedlings.

Precautions:
Crop Tolerance The application of Goal 2XL to fall seeded perennial ryegrass and tall fescue (that have at least 1 to 2 tillers) will result in a chlorosis (yellowing) of the foliage within two weeks after treatment. Some symptoms may be present for up to three months following application. The use of Goal 2XL may also result in a substantial reduction in vegetative growth by perennial grasses during the winter. Leaf chlorosis and reduction of vegetative growth is a typical and normal response and seed yield of healthy, vigorous perennial grasses is typically not affected by fall application of Goal 2XL. It is accepted by the grower that conditions under which seed yield may be reduced are not fully understood and that a reduction in seed yield may occur. **Do not graze fields that have been treated with Goal 2XL as illegal residues may be present in the vegetative forage**. Grazing may also magnify crop injury and reduce the seed yield.

Crop-Specific Restrictions:
- **Chemigation:** Under this SLN label, do not apply this product through any type of irrigation system.
- **Do not** graze livestock in treated fields within 150 days of application.
- **Do not** apply Goal herbicide within 150 days of harvest.
- Goal 2XL should be applied only by ground application equipment.

Weeds Suppressed and/or Controlled: Goal 2XL will provide control or suppression of the following weeds and volunteer crops when applied between the onset of germination and the two-leaf seedling growth stage:

Common Name	Scientific Name
Groundsel, Common	*Senecio vulgaris*
Speedwell	*Veronica Spp*

Guava (Bearing and Non-Bearing

For Use Only in Hawaii

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	5 - 8	**Preemergence or Postemergence:** In established guava plantings, apply preemergence or postemergence to weeds. Increase the spray volume to ensure adequate coverage in high densities of emerged weeds or heavy trash. Minimize contact with guava plants by directing the spray to the soil surface. Spray shields are suggested to minimize spray contact in young plantings. For broader spectrum postemergence control of grass and broadleaf weeds, Goal 2XL may be applied in tank mix combination with paraquat (Gramoxone) or glyphosate. Follow applicable use directions, precautions and limitations on the labels of the respective tank mix products.
Postemergence	2 - 8	
Precautions: • Prevent direct spray or drift from contacting green stems, fruit or foliage, as injury may result. • Alone or in tank mix combination, Goal 2XL should be applied to only healthy growing trees. • Application of Goal 2XL should be made only after new foliage growth has hardened off.		
Crop-Specific Restrictions: • Do not apply more than 8 pints per acre of Goal 2XL in a single application or more than 16 pints per season. • Do not apply Goal 2XL within 1 day of harvest.		

Key Weeds Controlled:

Preemergence		Postemergence
ageratum buttonweed crotalaria	purslane, common spurge, garden	purslane, common spurge, garden

Horseradish

Agricultural Use Requirements: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	2	Apply Goal 2XL after the horseradish roots have been planted but prior to emergence of new horseradish leaves. Emerged leaves that receive direct or indirect spray (drift) contact will be injured. If necessary, cultivate before application to destroy germinated weeds.

Horseradish (Cont.)

Precautions: • Do not apply Goal 2XL to horseradish plantings that have been weakened or stressed due to unfavorable temperature conditions, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.
Crop-Specific Restrictions: • Do not apply more than 2 pints of Goal 2XL per acre per crop.

Key Weeds Controlled:

lambsquarters, common pigweed, redroot	purslane, common	shepherdspurse	smartweed, pennsylvania

Jojoba

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 6	Initial application may be made when jojoba plants have reached a height of 6 inches or more. Use sufficient spray volume to ensure thorough coverage of dense weed growth. Sprays should be directed to the base of jojoba plants to avoid possible phytotoxicity to foliage. Spray shields are suggested for use in young plantings. Use higher rate in rate range for extended residual preemergence weed control. Make follow-up applications as necessary to maintain weed control. For early postemergence control of susceptible seedling weeds (less than 8 inches tall) apply Goal 2XL at the rate of 4 pints per acre. Goal 2XL may be applied at the rate of 6 pints per acre for postemergence control of weeds up to 12 inches tall. For optimum residual control, apply during the fall or winter months. Control may be unsatisfactory for weeds greater than 12 inches tall.
Precautions: • Avoid direct spray or drift contact with jojoba flowers or buds as severe injury may result. • Over-the-top applications may cause burning, crinkling or bronzing of jojoba foliage, particularly to the youngest leaves, flowers, or buds present at the time of application.		
Crop-Specific Restrictions: • Do not apply more than 6 pints per acre per year.		

Key Weeds Controlled:

Preemergence		Postemergence	
burclover fiddleneck, coast filaree, broadleaf filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate lambsquarters, common	lettuce, prickly mallow, little (malva, cheeseweed) pigweed, redroot purslane, common redmaids rocket, London shepherdspurse sowthistle, annual	fiddleneck, coast filaree, broadleaf †† filaree, redstem †† filaree, whitestem †† groundsel, common † henbit mallow, little (malva, cheeseweed) minerslettuce nettle, burning	pigweed, redroot † redmaids shepherdspurse sowthistle, annual

† Highest rate may be required for acceptable postemergence control.
†† Goal 2XL at the 6-pint rate will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

Mint (Spearmint and Peppermint)

Mint (Spearmint and Peppermint) Grown on Mineral Soils		
Weed Control	**Rate (pt/acre)**	**Specific Use Directions**
Preemergence Postemergence	4 - 6	**Oregon and Washington (East of Cascades), California, Montana, Idaho, Nevada, South Dakota and Utah:** Apply from December through March when mint is dormant. When used postemergence (to weeds), add an 80% active ingredient nonionic surfactant at the rate of one quart per 100 gallons of spray volume and apply before weeds exceed a height of 4 inches. Late winter applications will provide maximum activity on summer weeds, but summer grass control may be inconsistent. For best results, fall-plowed fields should be harrowed to provide a smooth surface for application. In furrow-irrigated fields, corrugating must be done prior to application. Corrugating or harrowing will result in disturbance of treated soil or movement of untreated soil into treated areas, resulting in poor weed control.
Preemergence	2 - 3	**Peppermint (Western Oregon Willamette Valley):** Apply Goal 2XL from November through February to dormant peppermint only. Treatments in January or February generally provide better residual preemergence control of annual broadleaf weeds. Full season weed control should not be expected from this treatment.
Precautions: • Application must be made prior to emergence of new spring growth or severe crop injury may result. • **In the Willamette valley, do not apply Goal 2XL to mint that has been plowed.** • Apply Goal 2XL only to healthy stands of spearmint and peppermint. Do not apply to spearmint or peppermint weakened by disease, drought, flooding, excessive fertilizer, soil salts, previously applied pesticides, nematodes, insects, or winter injury, as severe injury may result.		
Crop-Specific Restrictions: • Do not make more than one application of Goal 2XL per season.		

Key Weeds Controlled:

bedstraw, catchweed † bluegrass, annual flixweed groundsel, common lambsquarters, common	lettuce, prickly (china lettuce) mustard, blue (purple mustard) mustard, tumble (Jim hill mustard) nightshade, hairy	† oats, wild orach, red pepperweed, yellowflower pigweed, redroot † ryegrass, Italian	shepherdspurse sowthistle, annual tansymustard thistle, Russian

† Control of annual grasses is best obtained when Goal 2XL is applied prior to emergence. Postemergence control of winter annual grasses is generally unsatisfactory if applications are made after the 1 to 2-leaf stage.

Mint (Spearmint and Peppermint) Grown on Muck Soils): For Use Only on Mint Grown in Indiana, Michigan, Montana, North Dakota, South Dakota, and Wisconsin		
Weed Control	**Rate (pt/acre)**	**Specific Use Directions**
Preemergence Postemergence	4 - 6	**Note:** Use directions in this section apply only to spearmint and peppermint grown on muck soils (organic matter content of 20% or greater). When used postemergence (to weeds), add an 80% active ingredient nonionic surfactant at the rate of one quart per 100 gallons of spray volume and apply before weeds exceed a height of 4 inches.

Mint (Spearmint and Peppermint) Grown on Muck Soils): For Use Only on Mint Grown in Indiana, Michigan, Montana, North Dakota, South Dakota, and Wisconsin (Cont.)
Precautions: • Application must be made prior to emergence of new spring growth or severe crop injury may result. • To avoid excessive crop injury, do not apply within 4 days of planting (sprigging) spearmint or peppermint. • Apply Goal 2XL only to healthy spearmint or peppermint. Do not apply to spearmint or peppermint that has been weakened by disease, nematodes, soil insects, or winter injury, as severe injury may result.
Crop-Specific Restrictions: • Do not make more than one application of Goal 2XL per season.

Key Weeds Controlled:

Knotweed, prostrate	pigweed, redroot	purslane, common

Non-Crop Use

(Non-Food-Producing, Non-Cultivated Agricultural or Non-Agricultural Areas, such as Highway and Utility Rights-of-Way, Roadways, Industrial Sites, Tank Farms, Storage Areas, Airports, Fencerows, Levee Banks (use only on the side of levee away from water channels) and Farmsteads)

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	5 - 8	**Preemergence:** Use higher rate in rate range for longer residual control. **Postemergence:** Use the lower rate in the rate range for control of susceptible weeds in the early postemergence stage, less than 4 inches tall. Use the higher rate for weeds up to 12 inches tall. Application to weeds beyond the 4-inch stage may result in partial control.
Postemergence	2 - 8	
Tank Mixing: Refer to Mixing Directions section for Tank Mixing Precautions. Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply. • **Preemergence:** For broader-spectrum residual preemergence weed control, Goal 2XL may be applied in tank mix combination diuron (Karmex) or simazine. • **Postemergence:** For additional postemergence control of susceptible grass and broadleaf weeds, Goal 2XL may be applied in tank mix combination with paraquat (Gramoxone) or glyphosate.		
Site-Specific Restrictions: • Do not feed or allow animals to graze on any areas treated with Goal 2XL. • Do not apply more than 8 pints per acre in a single application.		

Key Weeds Controlled:

Preemergence		Postemergence	
burclover cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem groundsel, common henbit knotweed, prostrate	lambsquarters, common lettuce, prickly pigweed, redroot purslane, common redmaids rocket, London shepherdspurse sowthistle, annual	cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem groundsel, common henbit minerslettuce nettle, burning	pigweed, redroot purslane, common redmaids shepherdspurse sowthistle, annual

In addition to the above weeds, Goal 2XL also controls the following weeds:

Mile-A-Minute (Connecticut and Pennsylvania)

Goal 2XL herbicide is recommended for postemergence and preemergence control of Mile-a-Minute. Goal 2XL herbicide is recommended for postemergence control at 2 pints (0.5 lb. active) per broadcast acre. This rate is recommended for the control in the early postemergence stage (up to 4 leaf stage) in height. If applied to seedlings greater than the 4 leaf stage, the degree of suppression/burn down of existing growth is dependent on thorough and complete spray coverage of the weed. For preemergence control, Goal 2XL herbicide is recommended at 2 pints (0.5 lb. active) per broadcast acre.

For the greatest benefit of Goal 2XL herbicide for preemergence control, adequate coverage of the soil and vegetative trash is required. Control of escape Mile-a-Minute seedlings should be obtained through postemergence applications of Goal 2XL herbicide. Do not apply more than 2 pints (0.5 lb. active) of Goal 2XL herbicide per broadcast acre as a single application or more than 4 pints (1.0 lb. active) per broadcast acre per year as a result of multiple applications. It is recommended that Latron AG-98 or a comparable 80% active nonionic surfactant be added to the spray mixture at a rate of 9.8 mls (2 teaspoons or 0.4 fluid ounces) per 1 gallon of spray.

Goal 2XL herbicide should be applied in a minimum of 40 gallons of water per acre. Best preemergence results are achieved when spray is applied to a relatively weed-free soil surface. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan nozzles. Spray equipment should be calibrated carefully before each use.

Weed Stage	Gallons of Water Per Acre
Early Postemergence (weeds up to 4 leaf stage)	40 or more
Postemergence (weeds up to 8 leaf stage)	100 or more
Preemergence	40 or more

Witchweed (North Carolina and South Carolina)

Goal 2XL herbicide is recommended for postemergence and preemergence control of witchweed *(Striga asiatica)*. Goal 2XL herbicide is recommended for postemergence control at 2 to 4 pints (0.5 to 1.0 lb. active) per broadcast acre. Higher rates should be used for the control of dense populations of witchweed or where large witchweed plants are present. It is recommended that Latron AG-98 or a comparable 80% active nonionic surfactant be added to the spray mixture at a rate of 0.125% v/v (1 pint per 100 gallons of spray mix).

Goal 2XL herbicide must be applied to witchweed plants before blooms form, to prevent the production of viable seed. Apply in a minimum of 10 gallons of water per acre. The volume of water used should be increased as the weeds become taller and more dense. Use a low-pressure sprayer equipped with flat fan or whirl chamber nozzles. Spray equipment should be calibrated carefully before each use.

Onions

Agricultural Use Requirements: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

For optimum preemergence weed control, the soil surface should be smooth and free of excessive trash (clippings, plant residues, etc.). Following application, cultural practices that result in redistribution or disturbance of the soil surface or move untreated soil into treated areas will reduce weed control.

Direct Seeded Onions: Postemergence Application

Weed Control	Rate (per acre)	Specific Use Directions
Postemergence	2 - 4 fl oz	**Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont:** Apply Goal 2XL at 2 to 4 fl oz per acre to seeded onions that have at least 3 fully developed true leaves using ground equipment. Multiple treatments at 2 to 4 fl oz per acre may be applied up to a maximum of 2 pints (32 fl oz) per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing.
Postemergence	0.5 - 1 pt	**Arizona, California, Colorado, Idaho, Nevada, New Mexico, Oregon, Texas, Utah and Washington:** Apply Goal 2XL at 0.5 to 1 pt per acre to direct seeded onions that have at least 2 fully developed true leaves, using ground equipment. Multiple treatments at 0.5 to 1 pt per acre may be applied up to a maximum of 2.5 pints per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing.

Direct Seeded Onions: Postemergence Application: (Cont.)		
Weed Control	**Rate (per acre)**	**Specific Use Directions**
Postemergence	0.5 pt	**All other states:** Apply Goal 2XL at 0.5 pt per acre to direct seeded onions that have at least 2 fully developed true leaves using ground equipment. Multiple treatments at 0.5 pt per acre may be applied up to a maximum of 2 pints per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4 leaf stage and actively growing.
Postemergence	(see above)	**Sprinkler Irrigation - all except northeastern states (center pivot, portable lateral or solid set):** Apply Goal 2XL at the specified broadcast application rate using sufficient irrigation to wet soil to a depth of 2 inches. Follow the application directions and precautions for "Sprinkler Chemigation" given in the Chemigation section of this label.

Transplanted Onions: Application Immediately before Planting		
Weed Control	**Rate (per/acre)**	**Specific Use Directions**
Preemergence Postemergence	1 - 2 pt	**Pre-transplant application (not for use in northeastern states or western states:** Goal 2XL may be applied as a broadcast or band application after completion of tillage operations, but before transplanting of onion plants. Transplanting should be accomplished with a minimum of soil disturbance. For optimum weed control, soil surfaces should be left undisturbed after transplanting for the period for which weed control is desired. However, timely cultivation after weed emergence will assist in weed control. If less than 2 pt per acre was applied as a pre-transplant application, postemergence applications may be made as instructed for seeded onions. Do not exceed the maximum use rate of 2 pt per acre per use season as a result of multiple applications.

Transplanted Onions: Application Immediately after Planting		
Application Timing for Target Weeds	**Rate (per/acre)**	**Specific Use Directions**
Preemergence	up to 2 pt	**All states except northeastern states:** Transplanted onions are most tolerant of a postemergence application immediately after transplanting. An application of up to 2 pints per acre may be made within two days after transplanting. If less than 2 pints per acre is applied, a second application can be made two weeks or more after transplanting. Do not exceed the maximum use rate of 2 pints per acre of Goal 2XL per season as a result of multiple applications.
Preemergence	2 - 4 fl oz	**Northeastern states including Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont:** Multiple treatments at 2 to 4 fl oz per acre may be applied up to a maximum of 2 pints (32 fl oz) per acre pre use season.

Onions - Use Precautions (applicable to all areas and methods of application):

- Goal 2XL can cause necrotic lesions, twisting, pigtailing or stunting of the onion plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the specified onion growth stage of the onion plants as specified in Specific Use Directions.
- Do not apply to onion plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects, nematodes or diseases.

Onions - crop-specific restrictions (applicable to all areas and methods of application):
• In all states **except** Northeastern states, do not apply until **direct seeded** onion plants have at least two (2) fully developed true leaves. In the Northeastern states, do not apply until direct seeded onion plants have at least three (3) fully developed true leaves. Application made prior to the specified growth stage may result in serious crop injury. • Do not apply more than a total of 2 pints per acre of Goal 2XL per use season as a result of multiple applications. • Do not apply within 45 days of harvest. • Do not apply Goal 2XL as a preemergence treatment to direct seeded onions. • Use only on dry bulb onions. • Do not apply to onions grown for seed, except as instructed in separate use directions. • Tank mixtures of Goal 2XL herbicide with oils, surfactants, liquid fertilizers or other pesticides may be made but could result in enhanced crop response/injury and are the responsibility of the user.

Key Weeds Controlled:

Postemergence			
canarygrass (annual) eveningprimrose, cutleaf [a] groundsel, common mallow, little (malva)	nightshade, black pigweed, prostrate [b] pigweed, redroot [a, b] puncturevine	purslane, common [a, b] rocket, London sage, lanceleaf	shepherdspurse [b] sowthistle, annual

[a] Weeds controlled when applied as a pre-transplant application. In addition, Goal 2XL at the rate of 1 to 2 pints per acre will provide control/suppression of carpetweed, Pennsylvania smartweed, galinsoga, common lambsquarters, and wild mustard. Applications of Goal 2XL to muck soils may result in partial control or suppression of the weeds listed.

[b] Specific weeds controlled at specified rates for use in northeastern states (see DOSAGE section).

Onions Grown for Seed

Agricultural Use Requirements: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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 footwear plus socks
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Weed Control	Rate (per/acre)	Specific Use Directions
Preemergence	2 fl oz	**Northeastern States including Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island and Vermont:** Multiple treatments at 2 fl oz per acre may be applied up to a maximum of 2 pints (32 fl oz) per acre pre use season. Prior to initial treatment, seeded onions must have *at least four (4) true leaves*. Multiple treatments at the aforementioned rate may be applied.
Preemergence	up to 0.5 pt	**All other States:** Apply Goal 2XL at up to 0.5 pt per acre to seeded onions that have *at least three (3) true leaves*. Multiple treatments at 0.5 pt per acre may be applied up to a maximum of 2 pints per acre pre use season. For optimum postemergence control, apply when susceptible weeds are in the 2 to 4-leaf stage and actively growing. **Sprinkler Irrigation - Portable Lateral or Solid Set:** Apply Goal 2XL at the specified broadcast application rate using sufficient irrigation to wet soil to a depth of 2 inches. Follow the application directions and precautions for "Sprinkler Chemigation" given in the Chemigation section of this label.

Onions Grown for Seed (Cont.)

Use Precautions:
- **Notice:** Some varieties or inbred lines of onions may be more susceptible to Goal 2XL. Care should be taken to insure that the particular onion variety or line being grown is tolerant to Goal 2XL. It is suggested that all onion varieties or lines be tested in limited areas to ensure an adequate level of crop tolerance prior to an application for postemergence weed control.
- Goal 2XL can cause necrotic lesions, twisting, pigtailing or stunting of the onion plants. Injury will be more severe if applications are made immediately following or during cool, wet weather and/or if applications are made prior to the specified onion growth stage of the onion plants as specified in Specific Use Directions.
- Do not apply to onion plants that are under stress due to drought, flooding, excessive fertilizer or soil salts, wind injury, hail, frost damage, injury from previously applied pesticides, or injury due to insects or diseases.

Crop-Specific Restrictions:
- In all states, do not apply Goal2XL until the onions have reached the minimum leaf stage specified. Application prior to the specified stage of development may result in serious injury
- Do not apply more than a total of 2 pints per acre of Goal 2XL during one use season.
- Do not apply within 60 days of harvest.
- For seeded onions, do not apply Goal 2XL with oils, surfactants, liquid fertilizers or other pesticides except as specified in approved Dow AgroSciences Supplemental Labeling.

Key Weeds Controlled:

Postemergence			
canarygrass (annual) eveningprimrose, cutleaf groundsel, common mallow, little (malva)	nightshade, black pigweed, prostrate † pigweed, redroot †	puncturevine purslane, common † rocket, London	sage, lanceleaf shepherdspurse sowthistle, annual

† Specific weeds controlled at specified rates for use in northeastern states (see DOSAGE section).

Papaya

For Use Only in Hawaii

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4	The initial application should occur no sooner than 4 months after transplanting or 6 months after direct seeding, and after the papaya has reached a minimum height of 4 feet. Applications may be repeated at approximate 4-month intervals. Apply preemergence or postemergence to weeds. Increase the spray volume to assure adequate coverage of dense growth of emerged weeds. Goal 2XL must be applied as a directed spray to the orchard floor beneath the papaya plants. Accurate, uniform placement of Goal 2XL is essential for effective weed control and to minimize crop injury. Goal 2XL must be applied using rigid precision ground sprayer equipment. Postemergence applications may be made up to the 4 leaf stage of weed growth.

Precautions:
- Do not allow the herbicide solution, spray, drift or mist to contact green bark, stems, fruit or foliage as injury may result.
- Do not use Goal 2XL on papaya plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.

Crop-Specific Restrictions:
- Do not apply more than 4 pints of Goal 2XL per broadcast acre in a single directed spray or more than 12 pints per broadcast acre per year as a result of multiple applications.
- Do not apply Goal 2XL within 1 day of harvest.

Key Weeds Controlled:

amaranth, spiny	purslane, common	spurge, garden

Pea, Ornamental Sweet, Grown for Seed (California Only)

Ornamental sweet peas grown for seed are tolerant to preemergence applications of Goal 2XL. However, under certain conditions, Goal 2XL can cause severe crop injury. Splashing rain or irrigation shortly after crop emergence or wet soil conditions during early growth stages can produce leaf cupping, crinkling, stunting, or defoliation of the ornamental sweet pea seedlings. When injury occurs, it is often limited to the first few leaves that develop shortly after plant emergence from the soil. Delays in crop development and/or maturity, and yield reduction may result.

Do not use Goal 2XL if the risk of crop injury is unacceptable. Do not use Goal 2XL on ornamental sweet pea plantings where seed lots are weakened or germinating seed are under stress due to temperature, disease, fertilizer, soil, salts, nematodes, insects, pesticides, drought, excessive moisture, flooding, or soil crusting.

Goal 2XL should be applied at a rate of 0.5 to 1 pint per acre as a preemergence application shortly after planting. Apply in a minimum of 20 gallons of water per acre, using a low pressure sprayer equipped with flat fan or hollow cone nozzles. Do not exceed 40 psi.

Goal 2XL provides preemergence suppression of the following weeds when used at specified rates:

Cheeseweed (Malva)	Malva parviflora
Groundsel, Common	Senecio vulgaris
Rocket, London	Sisymbrium irio
Shepherdspurse	Capsella bursa-pastoris

For optimum preemergence weed control, the soil surface should be smooth and free of excessive trash (clippings, plant residues, etc.). Following application, cultural practices which result in redistribution or disturbance of the soil surface or move untreated soil into treated areas will reduce weed control.

Use Restrictions:
- Do not use plants treated with Goal 2XL for feed or forage.
- Do not feed or allow animals to graze on any areas treated with Goal 2XL.
- Apply only with ground application equipment.

Roses: field-grown, established plantings

(For Distribution and Use Only in the State of California)

Goal 2XL may be used as a post-directed application for control of certain broadleaf weeds in well established rose plantings after bud grafted canes are at least 18-inches in length.

For preemergence weed control, apply 2 to 4 pints of Goal 2XL per broadcast acre. For optimum preemergence weed control, the soil surface should be smooth and free of excessive trash (clippings, plant residues, etc.). Following application, cultural practices which result in redistribution or disturbance of the soil surface or move untreated soil into treated areas will reduce weed control.

Weeds Controlled Pre-emergence:

Little mallow (cheeseweed; *Malva parviflora*)
Field bindweed (annual morningglory; *Convolvulus arvensis*)
Morningglory, ivyleaf (*Ipomoea hederacea*)
Nightshade, black (*Solanum nigrum*)
Nightshade, hairy (*Solanum physalifolium)*
Nodding beggarticks (*Bidens spp.*)
Redroot pigweed (*Amaranthus retroflexus*)

For postemergence weed control, apply 2 to 4 pints of Goal 2XL per broadcast acre. The lower rate is specified for the control of susceptible seedling weeds in the early postemergence stage, before the 4 leaf growth stage. The higher rate is recommended for weeds at the 4 leaf growth stage. The addition of a labeled rate of a herbicide adjuvant may assist in spray coverage and postemergence activity. Applications to weeds beyond the 4 leaf growth stage may result in partial control.

Weeds Controlled Postemergence:

Little mallow (cheeseweed; *Malva parviflora*)
Field bindweed (annual morningglory; *Convolvulus arvensis*)
Morningglory, ivyleaf (*Ipomoea hederacea*)
Nightshade, black (*Solanum nigrum*)
Nightshade, hairy (*Solanum physalifolium)*
Redroot pigweed (*Amaranthus retroflexus*)

Apply in 25 to 40 gallons of water per broadcast acre. Use a low-pressure sprayer with nozzles directed at the base of rose plants. Use spray shields to avoid spray contact with rose foliage. To minimize spray drift, use the lowest spray pressure suitable for the application equipment.

Goal 2XL should be applied only to roses with canes that are 18 inches or longer. Applications to rose plants with canes less than 18 inches in length may result in severe crop injury. Spray contact with foliage may cause severe crop injury and should be avoided. Leaves that are contacted by the spray will exhibit necrotic spotting and may drop from plant. Splashing rain or irrigation water or excessive soil moisture after application may result in leaf cupping, crinkling, stunting or defoliation.

Goal 2XL is phytotoxic to plant foliage. Avoid drift to nontarget areas. Do not apply when weather conditions favor drift.

When applied as directed, field-grown roses generally are tolerant to Goal 2XL, but this has not been evaluated on all varieties, biotypes and cultivars of roses under all possible growing conditions. The user should exercise caution with this product. Until familiar with results under current growing conditions, limit application of this product to a few plants in a small area to determine plant tolerance and potential for injury before initiating large-scale applications.

Use Restrictions:

- Do not apply more than 4 pints of Goal 2XL per broadcast acre per application and no more than 8 pints per broadcast acre per growing season.
- Do not apply Goal 2XL in enclosed greenhouse or lathouse structures.
- Tank mixtures of Goal 2XL with oils, liquid fertilizers or other pesticides may increase the potential for crop injury and are the responsibility of the user.
- Do not feed or graze animals on areas treated with Goal 2XL ***[need to specify application to grazing interval].***
- Goal 2XL is phytotoxic to plant foliage. Do not apply when weather conditions favor drift to non-target areas.
- Do not apply Goal 2XL to rose plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.
- Do not apply this product to roses through any type of irrigation system.

Taro

For Use Only in Hawaii

For use only to dryland taro grown in Hawaii. Dryland taro is defined as taro grown without irrigation, or by using irrigation practices that do not result in run-off, irrigation return flow, or other loss of irrigation water from the production area. If irrigation is used, the water applied shall not exceed the field capacity of the soil.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	2	**Preemergence to Taro and Weeds:** A single application of Goal 2XL at the rate of 2 pints per acre may be applied within 1 week after transplanting but prior to emergence of taro plants.
Postemergence	1	**Postemergence to Taro and Weeds:** Goal 2XL may be applied as a post-directed or band application at the rate of 1 pint per acre. Effective control of succulent weed seedlings in the 2-to 3-leaf stage can usually be obtained. Applications to weeds beyond the 3-leaf stage may result in partial control.
Precautions: • Accurate, uniform placement of Goal 2XL is essential for effective weed control and to minimize crop injury. Taro foliage receiving accidental spray or drift will be injured. Goal 2XL must be applied using rigid precision ground sprayer equipment. • Occasionally, after the use of Goal 2XL, spotting, crinkling or flecking may appear on the leaves of the taro. Leaves that receive direct or indirect (drift) spray contact will be injured. • Do not use Goal 2XL on taro plantings that are weak, or under stress due to temperature, disease, fertilizer, nematodes, insects, pesticides, drought or excessive moisture.		
Crop-Specific Restrictions: • Do not apply more than 2 pints of Goal 2XL per broadcast acre as a single preemergence application. • Do not apply more than 1 pint of Goal 2XL per acre in a single post-direct spray or more than 2 pints per acre per season as a result of multiple post-directed applications. • Do not apply more than 4 pints of Goal 2XL per acre per season as a result of preemergence and post-direct applications. • Do not apply Goal 2XL within 6 months of harvest of taro (corms, leaves).		

Key Weeds Controlled:

amaranth, spiny	purslane, common	spurge, garden

Treefruit / Nut / Vine Crops (Dormant Application)

Almond, Apple, Apricot, Avocado, Beechnut, Brazil Nut, Butternut, Cashew, Cherry, Chestnut, Chinquapin, Crab Apple, Date, Feijoa, Fig, Filbert, Grapes, Hickory Nut, Kiwi, Loquat, Macadamia Nut, Mayhaws, Nectarine, Olives, Peach, Pear, Pecan, Persimmon, Pistachio, Plum, Pomegranates, Prune, Quince, and Walnut

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence (broadcast application) (banded application)	 5 – 6 5 - 8	Apply Goal 2XL a minimum of 20 gallons of water per acre. Use higher spray volumes to ensure thorough coverage in high densities of emerged weeds or heavy trash. Sprays should be directed to the soil and the base of dormant trees or vines. **In California,** Goal 2XL may be applied as an over-the-top or directed spray to dormant nonbearing grape plantings. The use of a low-pressure sprayer is suggested. Do not apply over-the-top to grape plantings that are under stress due to drought, flooding, excessive fertilizer or soil salts, storage conditions, wind injury, hail, injury from previously applied pesticides, or injury due to insects, nematodes, or diseases, as severe crop injury may result.
Postemergence (broadcast application) (banded application)	 2 – 6 2 - 8	Apply in a spray volume of 40 or more gallons per acre. For optimum control, apply when weeds are at seedling stage of growth. The lower rate in the rate range (2 pints per acre) is specified for the control of susceptible seedling weeds in the early postemergence stage up to the 4-leaf stage. Higher rates (up to 6 pints per acre) may be used for weeds up to the 6-leaf stage. Applications to weeds beyond the 6-leaf stage may result in partial control.

Tank Mixing: Refer to Mixing Directions section for Tank Mixing Precautions. Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply. See labels of tank mix partners to determine suitability and use rates for various crops.

- **Postemergence:** For broader spectrum postemergence control of listed grass and broadleaf weeds, Goal 2XL may be applied in tank mix with paraquat (Gramoxone) or glyphosate. These herbicides may also be added to preemergence tank mixes for enhanced control of existing weeds.
- **Preemergence:** For broad-spectrum preemergence control of susceptible grass and broadleaf weeds in listed treefruit, nut or vine plantings, Goal 2XL may be applied in tank mix with napropamide (Devrinol herbicide), diuron (Karmex herbicide), pronamide (Kerb® herbicide), simazine, norflurazon (Solicam herbicide) or oryzalin (Surflan herbicide).

Chemigation (All States): For dormant season application using sprinkler (low-volume (micro sprinkler), drip (trickle), and flood (basin) irrigation systems, apply Goal 2XL at the specified rate per acre. Follow applicable directions in the Chemigation section of this label when making applications using irrigation systems.

Precautions:

- Goal 2XL or any of the combinations listed on this label should be applied to only healthy growing trees or vines.
- Avoid direct plant contact. Direct spray toward the base of tree or vines unless specific use recommendations allow over-the-top application.

Crop-Specific Restrictions:

- In all states, unless otherwise specified, do not apply Goal 2XL during the period between bud swell and completion of final harvest or when fruit/nuts are present. Goal 2XL may be applied upon completion of final harvest.
- **In Arizona and California, Goal 2XL may be applied during the period following completion of final harvest up to February 15 (February 1st in the Coachella Valley, California). Applications made after these calendar dates, but prior to bud swell, may result in significant crop injury and are the responsibility of the user.**
- For banded applications, up to 8 pints per acre of Goal 2XL per use season may be applied within the treated band. Do not apply more than a maximum of 6 pints per acre per use season on a broadcast basis.
- Do not apply to grapes or kiwi established less than 3 years unless vines are on a trellis wire a minimum of 3 feet above the soil surface.
- Do not apply to grapes or kiwi that are not staked or trellised unless vines are free standing.

Key Weeds Controlled (Arizona and California):

Preemergence		Postemergence	
burclover cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem filaree, whitestem groundsel, common henbit knotweed, prostrate	lambsquarters, common lettuce, prickly pigweed, redroot purslane, common redmaids rocket, London shepherdspurse sowthistle, annual	cheeseweed (malva) fiddleneck, coast filaree, broadleaf † filaree, redstem † filaree, whitestem † groundsel, common henbit minerslettuce nettle, burning	pigweed, redroot redmaids shepherdspurse sowthistle, annual

† Goal 2XL at the 6-pint rate will provide control of filaree not exceeding the 4-inch stage. Applications to filaree beyond the 4-inch stage may result in partial control.

Key Weeds Controlled (All Other States Except Arizona and California):

Preemergence		Postemergence	
camphorweed cudweed, narrowleaf eveningprimrose, cutleaf † groundcherry, cutleaf jimsonweed lambsquarters, common nightshade, American black nightshade, black pepperweed, Virginia pigweed, redroot poinsettia, wild	sida, prickly smartweed, Pennsylvania sowthistle, annual spurge, prostrate spurge, spotted velvetleaf	balsamapple cocklebur, common cudweed, narrowleaf † † eveningprimrose, cutleaf † † † groundcherry, cutleaf groundcherry, Wright jimsonweed lambsquarters, common morningglory, annual nightshade, American black nightshade, black	pepperweed, Virginia pigweed, redroot poinsettia, wild purslane, common sesbania, hemp shepherdspurse sida, prickly (teaweed) smartweed, pennsylvania sowthistle, annual velvetleaf

† Highest rate and/or multiple applications may be required for acceptable control.
† † Maximum 0.5-inch diameter.
† † † Highest rate and/or multiple applications may be required for acceptable control.

Grapes (Non-Dormant Application)

(California Only)

Goal 2XL may be applied as a directed spray or, for supplemental preemergence weed control, through low-volume sprinkler (micro sprinkler) or drip irrigation systems for control or suppression of listed broadleaf weeds in non-dormant grapes (raisin and wine grapes only). Goal 2XL may also be applied to all grapes (raisin, table, and wine) as a dormant season application. Refer to Treefruit/Nut/Vine Crops (Dormant Application) section above for use directions for dormant season application to grapes.

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	2	Goal 2XL may be applied preemergence or postemergence to weeds either as a directed spray in a minimum spray volume of 20 gallons per acre or through low-volume sprinkler (micro sprinkler) or drip irrigation systems. Repeat applications may be required. Applications may be made from completion of bloom up to 14 days before to harvest. When applied as a postemergence directed spray, add 1 quart 80% active nonionic surfactant cleared for application to growing crops per 100 gallons of spray. Sprays should be directed to the soil and the base of vines.
Postemergence	1 - 2	
Tank Mixing: • When applied as a directed postemergence spray using ground equipment, Goal 2XL may be applied in tank mix with paraquat (Gramoxone) or glyphosate in a minimum spray volume of 10 gallons per acre. Refer to Mixing Directions section for Tank Mixing Precautions. Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.		

Grapes (Non-Dormant Application) (Cont.)

Chemigation: Follow chemigation instructions in Product Information section.

- **Low Volume Sprinkler (Microsprinkler) and Drip (Trickle) Irrigation:** Apply only through low-volume sprinkler or drip systems designed to uniformly distribute irrigation water beneath the canopy. Meter Goal 2 XL at a continuous rate during the middle 1/3 of the irrigation period and discontinue application during the final 1/3 of the irrigation period to insure proper flushing of the irrigation system. Use of Goal 2XL through low-volume sprinklers or drip emitters helps to reduce the "ring effect" of weed escapes in areas around sprinklers or emitters where previously applied broadcast or directed treatments begin to break down.

Precautions:

- **Crop Tolerance:** The use of Goal 2XL may result in varying degrees of injury to non-dormant grapes. Grape foliage will typically exhibit injury symptoms from direct or indirect (spray drift, soil contact) exposure. This injury may result in necrosis, reddening, cupping or crinkling of grape leaves. The grape plant will continue to grow normally. Grape leaves that are immature or expanding at the time of contact with Goal 2XL are the most susceptible to foliage injury. Grapes may exhibit some small blemishes (spots or flicks) on the fruit.
- Goal 2xl is phytotoxic to plant foliage. Avoid drift to all other crops and nontarget areas. Do not apply when weather conditions favor drift.

Crop-Specific Use Restrictions:

- The total amount of Goal 2XL applied during one season (from completion of final harvest through dormancy to non-dormant use covered by this section) cannot exceed 6 pints per acre as a result of multiple applications in any given area (broadcast, banded, or within the wetted area of the low-volume sprinkler or drip irrigation system).
- Do not apply within 14 days of harvest.
- Do not initiate application of Goal 2XL in non-dormant grapes until the completion of the bloom period.
- Do not apply to grapes established less than 3 years unless vines are either on a trellis wire a minimum of 3 feet above the soil surface, or protected by grow tubes.
- Goal 2XL should be applied only by ground application equipment of through low-volume sprinkler (micro sprinkler) or drip (trickle) irrigation systems.
- Apply Goal 2XL as a non-dormant application to wine grapes or raisin grapes only.

Key Weeds Controlled or Suppressed:

Preemergence		Postemergence	
burclover	mustard, black	cheeseweed (malva)	nightshade, black
cheeseweed, malva	nettle, burning	fiddleneck, coast	pigweed, redroot
fiddleneck, coast	nightshade, black	groundsel, common	purslane, common
groundsel, common	pigweed, redroot	henbit	redmaids
henbit	purslane, common	minerslettuce	rocket, London
knotweed, prostrate	redmaids	morningglory species, annual	sowthistle, annual
lambsquarters, common	rocket, London	mustard, black	
minerslettuce	sowthistle, annual	nettle, burning	

Sucker Control in Non-Dormant Grapes

(Washington and Oregon Only)
(Grapes for Wine and Processing Only)

Application Timing for Sucker Control	Rate (pt/acre)	Specific Use Directions
Grape suckers less than 12 inches in length.	1 - 2	Apply Goal 2XL in a three-foot band directed towards to newly emerging suckers at the base of the grapevine. The highest rate and/or a second application may be required to achieve an acceptable level of control/suppression of grape suckers. Avoid spray contact on flowers, grape clusters, or fruit. Use mounted nozzles to deliver the spray solution. Thorough spray coverage of sucker growth is essential for optimal activity. Use a spray volume of 50 or more gallons per acre (broadcast basis).

Tank Mixing: For enhanced postemergence sucker activity, a tank mixture of Goal 2XL with either glufosinate (Rely Herbicide) or paraquat (Gramoxone) can be used. Apply at the specified rates and growth stages in a manner describe on the respective labels. Refer to Mixing Directions section for Tank Mixing Precautions. Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.

Sucker Control in Non-Dormant Grapes (Cont.)

Precautions:
- The use of Goal 2XL may result in varying degrees of injury to non-dormant grapes. Grape foliage will typically exhibit injury symptoms from direct or indirect (spray drift or soil contact) exposure. This injury may result in necrosis, reddening, cupping or crinkling of grape leaves. The grape plant will continue to grow normally. Leaves that are immature or expanding at the time of contact with Goal 2XL are the most susceptible to injury. Grape fruit may exhibit some small blemishes (spots or flecks) on the fruit.

Crop-Specific Restrictions:
- The total amount of Goal 2XL applied during one crop year (dormant and non-dormant) cannot exceed 6 pints per acre as a result of multiple applications in any give area (broadcast or banded).
- Goal 2XL should be applied only by ground application equipment.
- Apply Goal 2XL as a non-dormant application for sucker control only to wine or processed grapes.
- Do not apply Goal 2XL within 60 days of harvest.

Pistachios, Walnuts, Almonds (California and Arizona Only)

(Non-Dormant Application)

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence	5 - 6	**Preemergence:** For residual weed control of listed weeds.
Postemergence	1 - 2	**Postemergence (Suppression):** Apply to seedling weeds less than 4 inches in height. Repeat applications may be required.
	2 - 6	**Postemergence (Cleanup):** Contact (postemergence) control for cleanup sprays and preharvest applications. Apply to seedling weeds less than 4 inches in height. Applications to weed seedlings beyond the 4-inch stage may result in partial control.

Tank Mixing: For broader spectrum grass and broadleaf weed control in tree row middles, Goal 2XL may be tank mixed with either paraquat (Gramoxone) or glyphosate. Refer to Mixing Directions section for Tank Mixing Precautions. Follow applicable use directions, precautions, and limitations on the respective product labels. In interpreting the labels of tank mixed products, the most restrictive label limitations must apply.

Chemigation: Follow chemigation instructions in Product Information section.

Flood (Basin) Irrigation: For flood (basin) irrigation systems, meter continuously into the water during the entire irrigation period. Best weed control results are obtained when a uniform distribution and flow of irrigation water is maintained over level land. Irrigation water treated with Goal 2XL must be contained on the treated area until the water is absorbed by the soil.

Low Volume Sprinkler (Microsprinkler) and Drip (Trickle) Irrigation: Apply only through low-volume sprinkler or drip systems designed to uniformly distribute irrigation water beneath the tree canopy. Applications should be made prior to weed emergence; otherwise postemergence activity may be inconsistent due to uneven coverage. Meter Goal 2 XL at a continuous rate during the middle 1/3 of the irrigation period and discontinue application during the final 1/3 of the irrigation period to insure proper flushing of the irrigation system. Use of Goal 2XL through low-volume sprinklers or drip emitters helps to reduce the "ring effect" of weed escapes in areas around sprinklers or emitters where previously applied broadcast or directed treatments begin to break down.

Precautions:
- Direct spray toward the base of trees. Avoid direct contact with foliage or nuts.
- Goal 2XL should be applied only to healthy growing trees

Crop-Specific Use Restrictions:
- When applied as a non-dormant treatment, Goal 2XL can only be applied to pistachio plantings between May and 7 days prior to harvest.
- When applied as a non-dormant treatment, Goal 2XL can only be applied to almond plantings between April 1 and September 30 and to walnut plantings between May 1 and September 30.
- Do not apply Goal 2XL within 7 days of harvest of pistachios.
- Do not apply Goal 2XL within 15 to 30 days of harvest of almonds.
- Do not apply Goal 2XL within 7 days of harvest of walnuts.
- Do not apply more than 6 pints of Goal 2XL per acre during the non-dormant season.

Key Weeds Suppressed and/or Controlled

cheeseweed (malva) fiddleneck, coast filaree, broadleaf filaree, redstem	filaree, whitestem groundsel, common henbit minerslettuce	morningglory species, annual mustard, black nettle, burning pigweed, redroot	purslane, common redmaids rocket, London sowthistle, annual

Additional Weeds Controlled in Tank Mix with Glyphosate or Paraquat

barnyardgrass bluegrass, annual	chickweed, common horseweed (marestail)	rocket, London ryegrass, Italian

Windbreaks and Shelterbelts

(For Use Only in Minnesota, North Dakota, South Dakota and Wyoming)

Weed Control	Rate (pt/acre)	Specific Use Directions
Preemergence Postemergence	4 - 6	Apply Goal 2XL may be applied as a broadcast, banded or post-directed spray. Preemergence control is most effective when spray is applied to clean, weed-free soil surfaces. Pre-transplant applications must be made after completion of soil preparation but prior to transplanting. Transplanting should be completed with minimal soil disturbance. For optimum weed control results, treated soil surfaces should be left undisturbed during the time period for which weed control is desired. **Postemergence Weed Control:** For best results, apply before 4-leaf stage for broadleaf weeds or 2-leaf stage for grass weeds. **Conifers:** Goal 2XL can be applied pre-transplant, post-directed or postemergence (over-the-top) to conifers. Postemergence or post-directed applications should be applied prior to budbreak or after new growth foliage has hardened off and new terminal buds have formed. **Deciduous Hardwoods:** Goal 2XL has exhibited selectivity to many deciduous species when applied pre-transplant or as a post-directed spray prior to budbreak.

Precautions:
- **Important:** Some varieties or cultivars of conifers or deciduous species listed may be susceptible to Goal 2XL. Care should be taken to ensure that the particular variety to be sprayed with Goal 2XL is tolerant. For unfamiliar species, it is suggested that Goal 2XL be tested on a limited number of plants prior to large-scale application.
- Occasionally after the use of Goal 2XL, a spotting, crinkling or flecking may appear on the leaves of the deciduous species. Leaves that receive direct or indirect (drift) spray contact will be injured. Deciduous species typically rapidly outgrow these symptoms and develop normally.
- Application after budbreak may result in injury to deciduous species. If non-dormant application is required, apply only after foliage has fully expanded and hardened off. Avoid direct or indirect spray contact with the foliage by applying to the soil surface as a directed spray.
- Apply Goal 2XL only to healthy deciduous and/or conifer trees. Do not apply Goal 2XL to conifers or deciduous trees that have been weakened or under stress from excessive fertilizer or soil salts, disease, nematodes, frost, drought, flooding, previously applied pesticides, soil insects, or winter injury, as severe injury may result.

Specific Use Restrictions for Shelterbelts:
- Do not apply more than 6 pints of Goal 2XL per acre in a single application or more than 18 pints per acre per year.

Key Broadleaf Weeds Controlled:

buckwheat, wild burclover carpetweed dock, curly groundcherry, cutleaf groundcherry, Wright groundsel, common henbit jimsonweed	knotweed, prostrate kochia ladysthumb lambsquarters, common lettuce, prickly mallow, little mayweed mustard, blue mustard, tumble	mustard, wild nettle, burning nightshade, black nightshade, hairy oats, wild orach, red pepperweed, yellow flower pigweed, prostrate pigweed, redroot	purslane, common rocket, London shepherdspurse † smartweed, Pennsylvania sowthistle, annual tansymustard thistle, Russian (seedling) velvetleaf

† The highest rate or multiple applications may be required for acceptable control.

Key Grasses Controlled:

barnyardgrass bluegrass, annual	crabgrass, large foxtail, giant	goosegrass witchgrass

Goal 2XL may be applied to numerous conifer and deciduous species, including the following:

Conifer Species

Common Name	Scientific Name
douglas-fir	*Pseudotsuga menziesii*
fir	
grand	*Abies grandis*
fraser	*Abies fraseri*
noble	*Abies procera*
hemlock	
eastern hemlock	*Tsuga canadensis*
western hemlock	*Tsuga heterophylla*
pine	
Austrian	*Pinus nigra*
eastern white	*Pinus strobus*
jack	*Pinus banksiana*
Himalayan	*Pinus graffithii*
loblolly	*Pinus taeda*
lodgepole	*Pinus contorta*
longleaf	*Pinus palustris*
monterey	*Pinus radiata*
mugo	*Pinus mugo*
ponderosa	*Pinus ponderosa*
scotch	*Pinus sylvestris*
shortleaf	*Pinus echinata*
slash	*Pinus elliottii*
Virginia	*Pinus virginiana*
spruce	
blue	*Picea pungens*
dwarf Alberta	*Picea glauca conica*
Norway	*Picea abies*
Sitka	*Picea sitchensis*

Common Name	Scientific Name
Arborvitae	*Thuja occidentalis* *Thuja orientalis*
juniper	*Juniperus chinensis* *Juniperus horizontalis* *Juniperus procumbens* *Juniperus sabina* *Juniperus scopulorum*
red cedar	*Juniperus virginiana*
yew	*Taxus* spp.

Deciduous Hardwood Species

Common Name	Scientific Name
ash	*Fraxinus* spp.
crabapple	*Malus spp.*
eucalyptus	*Eucalyptus* spp.
lilac	*Syringa vulgaris*
maple, black	*Acer nigrum*
oak, northern red	*Quercus rubra*
olive, Russian	*Elaeagnus angustifolia*
poplar (cottonwood)	*Populus* spp.
sweetgum	*Liquidambar styraciflua*
sycamore	*Platanus occidentalis*
walnut, black	*Juglans nigra*

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It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. To the extent permitted by law, all such risks shall be assumed by buyer.

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2. Replacement of amount of product used.

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Dow AgroSciences

Goal® 2XL

HERBICIDE

Active Ingredient
oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)4-(trifluoromethyl) benzene.....22.3%
Other Ingredients.....77.7%
Total.....100.0%

Contains 2 pounds active ingredient per gallon.
Contains petroleum distillates

Keep Out of Reach of Children

WARNING AVISO

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

Agricultural Use Requirements

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

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

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

Shake Well Before Using

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

EPA Reg. No. 62719-424 900-020743 / 00192353

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Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

(01) 0 06 62974 44477 0

PEEL FILM HERE

NET CONTENTS 2.5 GAL

51 1/4”

1 7/16” | 14 15/16” | 9 15/16” | 15 1/16” | 9 7/8”

25 1/16” CORR.

4 7/8”

15 5/16”

4 7/8”

Contents In Plastic
Do Not Cut To Open

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2 X 2.5 GAL

SHAKE WELL

00172875

Dow AgroScience

Goal® 2XL

HERBICIDE 2 X 2.5 GAL

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Dow AgroSciences

Goal® 2XL

HERBICIDE 2 X 2.5 GAL

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