₹... Please read Instructions on reverse before completing form.

Form Approved.	OMB No.	2070-0060.	Approval	expires 11	-30-9

(A) United States Environmental Prote Office of Pesticide Programs (	
Washington, DC"2046	Amendment
Application for Pe	esticide: X Other 199933
Section	
1. Company/Product Number 59639-3	2. EPA Product Manager 3. Proposed Classification  Joanne Miller
4. Company/Product (Name) SELECT 2EC Herbicide	PM# None Restricted
5. Name and Address of Applicant (Include ZIP Code)  Valent U.S.A. Corporation 1333 N. Ca'liforniaBlvd., Ste 600  Walnut Creek, CA 94596  Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No.  Product Name
Section I I	T TOO OCT TAINS
	Final printed labels in response to
Amendment - Explain below	Agency letter dated
Resubmission in response to Agency letter dated	"Me Too" Application.
Notification - Explain below.	Other - explain below.
Explanation: Use additional page(s) if necessary. (For section I and S	Section II.)  N  N  N  N  N  N  N  N  N  N  N  N  N
	199-
Section III  1. Material This Product Will Be Packaged In:	
	Soluble Packaging 2. Type of Container
	Yes Metal
No No	No Plastic Glass
If "Yes," No. per If "Yes" * Certification must be	s." No. per Other (Specify)
submitted.	ontainer 5. Location of Label Directions
3. Location of Net Contents Information 4. Size(s) of Retail C  Label Container	On Label
Manner In Which Label Is Affixed To Product Lithograph	On Labeling accompanying product Other ( )
Paper glued Stenciled	
Section IV	
Contact Point (Complete items directly below for identification of indi Name     Title	vidual to be contacted, if necessary, to process this application.)  Telephone No. (Include Area Code)
	s & Registration Specialist (510) 256-2791
Certification , I certify that the statements I have made on this form and all attachme I acknowledge that any knowingly false or misleading statement may both under applicable law.	
2. Signature 3. Title	
Challet He willet	s & Registration Specialist
4. Pyped Name 5. Date Elizabeth J. Weibert	September 6, 1996

September 6, 1996

Attachment to OPP ID: 199933

SELECT<sup>®</sup> 2EC Herbicide EPA Reg. No.: 59639-3

I certify that this notification is consistent with PR 95-2 and EPA regulations at 40 CFR 152.46 and that no other changes have been made to the labeling of this product. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, then this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Elizabeth J. Weibert

Valent U.S.A. Corporation

1333 N. California Blvd., Ste. 600

Walnut Creek, CA 94596



# SELECT® 2 EC HERBICIDE

Active Ingredient *Clethodim		By Wt 26.4%
Inert Ingredients		
*(E)-2[1-[[(3-chloro-2-propenyl) oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hyd	droxy-2-cyclohexen-1-one	
Contains 2.0 lbs. clethodim per gal.	Non	-
U.S. Pat. No. 4,440,566	FICATIO	
KEEP OUT OF REACH OF CHILDREN	ON	

# **WARNING - AVISO**

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS
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.)

**NET CONTENTS 1 GALLON** 

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

Causes eye irritation. Avoid contact with skin. Do not get in eyes, on skin, or on clothing. Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist.

### STATEMENT OF PRACTICAL TREATMENT

If in eves:

Flush eyes immediately with fresh water for 15 minutes.

If on skin:

Wash with plenty of soap and water. Get medical attention if irritation persists.

If swallowed:

Give water or milk to drink and telephone for medical advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take person and product container to the nearest medical emergency

treatment center or hospital.

If inhaled:

Remove person from exposure area.

**Note to Physicians:** Emergency Information - call 1-800-892-0099. This product contains a light petroleum solvent, and an aspiration hazard may exist.

### 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.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton  $\geq$  14 mils, shoes plus socks, and protective eyewear.

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.

### **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwater or rinsate.

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass:

Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west.

Wild Rice:

Hays County, Texas.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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READ ENTIRE LABEL AND PAMPHLET. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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 12 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, such as barrier laminate or viton  $\geq$  14 mils, shoes plus socks, and protective eyewear.

### 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 Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas, or vicinity where there may be drift. Do not enter treated areas without protective clothing until sprays have dried.

### **GENERAL INFORMATION**

Do not apply this product through any type of irrigation system.

FOR USE ON:

Soybeans, Cotton, Ornamentals, Sugar beets, Onions (dry bulbs only), Garlic,

Shallots (dry bulbs only), Christmas Trees, Non-Bearing Food Crops, and Non-

Crop or Non-Planted Areas.

SELECT 2 EC Herbicide is a selective postemergence herbicide for control of annual and perennial grasses. SELECT 2 EC Herbicide does not control sedges or broadleaf weeds.

Repeated use of SELECT 2 EC Herbicide (or similar postemergence grass herbicides with the same mode of action) may lead to the selection of naturally occurring biotypes that are resistant to these products in some grass species.

If poor performance occurs and cannot be attributed to adverse weather or applications conditions, a resistant biotype may be present. This is most likely to occur in fields where other control strategies such as crop rotation, mechanical removal, and other classes of herbicides are not used from year to year.

Do not allow SELECT 2 EC Herbicide to come in contact with desirable grass crops such as corn, rice, sorghum, small grains, or turf, as these and other grass crops will be injured or killed. Minor leaf spotting may occur on treated plants under certain environmental conditions. New foliage is not affected.

### **Control Symptoms**

Treated grass weeds show a reduction in vigor and growth. Early chlorosis/necrosis of younger plant tissue is followed by a progressive collapse of the remaining foliage. Symptoms will generally be observed in 7 to 14 days depending on grass species treated and environmental conditions.

### APPLICATION INFORMATION

### Timing of Applications

Apply SELECT 2 EC Herbicide postemergence to actively growing grasses according to rate table recommendations. Applications made to grass plants stressed by insufficient moisture or cold temperatures, or to grass plants exceeding recommended growth stages may result in unsatisfactory control. Do not apply under these conditions.

In arid regions where irrigation is used to supplement limited rainfall, SELECT 2 EC Herbicide should be applied as soon as possible after an irrigation (within 7 days). In arid regions, a second application of SELECT 2 EC Herbicide will generally provide more effective control of perennial grass weeds than a single application. Make second application to actively growing grass 2 to 3 weeks after emergence of new growth.

Cultivation of treated grasses 7 days prior to or within 7 days after application of SELECT 2 EC Herbicide may reduce weed control. DO NOT APPLY SELECT 2 EC Herbicide if rainfall is expected within one hour, since control may be reduced.

### ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

### **CROP**

### ADJUVANT RECOMMENDATIONS

Cotton	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt. per acre) in the finished spray volume.
Soybeans	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt. per acre) in the finished spray volume.
	1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N or 32%N) may be added to SELECT 2 EC Herbicide applications.
Sugar beets, Onions (dry bulbs only), Garlic, and Shallots (dry bulbs only)	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v in the finished spray volume.
Ornamental Plants	Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v). Use of crop oil concentrate is not recommended since it may injure flowers and foliage.
Christmas Trees, Non-Bearing Food Crops, and Non-Crop or Non-Planted Areas	Always use a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pt. per acre) in the finished spray volume.

### **Ground Application**

Use of sufficient spray volumes and pressure is essential to ensure complete coverage. Use a minimum of 5 gals, and a maximum of 40 gals, of spray solution per acre. Spray pressures should reflect a minimum of 30 psi and a maximum of 60 psi at the nozzle. Do not use flood nozzles. Applications to onions, garlic, and shallots should be made in a minimum of 20 gals, of spray solution per acre.

### Air Application

Use a minimum of 3 gals, of spray solution per acre. Increase spray volumes up to 10 gals, as grass or crop foliage becomes dense.

Applications to onions, garlic, and shallots should be made in a minimum of 20 gals. of spray solution per acre.

### Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix  $\frac{1}{2}$ % to  $\frac{1}{2}$ % (0.33 oz. to 0.65 oz. per gal.) SELECT 2 EC Herbicide and treat to wet vegetation, while not allowing runoff of spray solution. For uses requiring crop oil concentrate, include crop oil concentrate at 1% (1.3 oz. per gal.) by volume. For uses requiring non-ionic surfactant, include non-ionic surfactant at  $\frac{1}{2}$ % (0.33 oz. per gal.) by volume.

### RESTRICTIONS AND LIMITATIONS

### **GENERAL**

Do not apply if rain is expected within 1 hour of application as control may be unsatisfactory.

Do not apply a postemergence broadleaf herbicide within one day following application of SELECT 2 EC Herbicide or reduced grass control may result.

Do not apply more than 32 fl. oz. of SELECT 2 EC Herbicide (0.5 lb. ai) per acre per season. Application on Long Island, New York, is restricted to no more than 16 fl. oz. of SELECT 2 EC Herbicide (0.25 lb. ai) per acre per season.

Do not apply under conditions of stress. Applying SELECT 2 EC under conditions that do not promote active grass growth will reduce herbicide effectiveness. These conditions include drought, excessive water, extremes in temperature, and low humidity. Grasses under these kinds of stressful conditions will not absorb and translocate SELECT 2 EC effectively, and will be less susceptible to herbicide activity.

Best perennial grass control can be obtained if rhizomes or stolons are cut up by preplant tillage practices (discing, plowing, etc.) to stimulate maximum emergence of grass shoots. Cultural practices such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up results in a very staggered, non-uniform plant emergence. Due to this non-uniform weed emergence, no fewer than two SELECT 2 EC Herbicide applications per season per year are recommended at the appropriate weed-growth stage rate under continuous no-till conditions.

Grass crops such as corn, sorghum, wheat, rice, etc. are highly sensitive to SELECT 2 EC Herbicide.

Always read and follow the restrictions and limitations for all products whether used alone or in a tank mix. The most restrictive labeling of any product used applies in tank mixtures, including all crop rotational and other crop restrictions.

Tank mixes of SELECT 2 EC Herbicide and broadleaf herbicides may result in reduced grass control. If grass regrowth occurs, an additional application of SELECT 2 EC Herbicide may be necessary.

### **AVOID SPRAY DRIFT**

Do not allow spray from ground or aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including:

- Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 10 MPH or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.
- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive plants are located nearby.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Further reductions in drift can be obtained by:
  - 1. Using large droplet size sprays. Do not use nozzles that produce small droplets. Orient nozzles downward and slightly backward as needed to reduce drift for ground applications.
  - 2. Orienting nozzles straight back with the windstream, using straight stream orifices for actial applications. Use the lowest number of nozzles practical with the largest possible orifice size to obtain the minimum 3 GPA volume. Application height and boom langth should be set according to manufacturer's instructions to minimize drift.
  - 3. Increasing the volume of spray mixture (for example a minimum of 1C GPA for ground applications) by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce drift.

4. Apply as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

### **COTTON AND SOYBEANS**

Do not graze treated fields or feed treated forage or hay to livestock.

Do not apply SELECT 2 EC Herbicide within 60 days of harvest.

### SUGAR BEETS

Do not apply SELECT 2 EC Herbicide within 100 days of sugar beets harvest.

# ONIONS (DRY BULBS ONLY), GARLIC, AND SHALLOTS (DRY BULBS ONLY)

Do not apply SELECT 2 EC Herbicide within 45 days of onion (dry bulbs only), garlic, or shallot (dry bulbs only) harvest.

### **ORNAMENTALS**

Sugar maples cannot be tapped for syrup within one year of SELECT 2 EC Herbicide application.

DIRECTIONS FOR USE IN SOYBEANS, COTTON, SUGAR BEETS, ONIONS (DRY BULBS ONLY), GARLIC, SHALLOTS (DRY BULBS ONLY), CHRISTMAS TREES, NON-BEARING FOOD CROPS, AND NON-CROP OR NON-PLANTED AREAS

### **IMPORTANT**

Plant tolerance to SELECT 2 EC Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of SELECT 2 EC Herbicide have investigated the safety factor to plants not listed on the label.

The following plants have shown a tolerance for SELECT 2 EC Herbicide applications:

### **NON-BEARING FOOD CROPS**

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following SELECT 2 EC Herbicide application.

COMMON NAME
Apples
Berries

Citrus Fruits
Grapes
Olives
Pears

COMMON NAME

Malus spp.
Vaccinium spp.
Rubus spp.
Citrus spp.
Citrus spp.
Olives
Olea spp.
Pyrus communis

Stone Fruits Prunus spp.
Strawberries Fragaria spp

Tree Nuts

Juglans spp. (walnut)

Carya illinoinensis (pecan)

Pistacia vera (pistacio)

Prunus triloba (almond)

### **CHRISTMAS TREES**

SELECT 2 EC Herbicide can be used to control labelled grasses in christmas tree farms, including forest conifer nurseries.

COMMON NAME
Cedars
Cedrus spp.
Firs
Abies spp.
Pines
Spruces
Picea spp.

### NON-CROP OR NON-PLANTED AREAS

The following areas are considered non-crop or non-planted areas:

Rights-of-way including railroads, highways, roads, dividers, medians, pipelines, public utility lines, pumping stations, transformer stations and substations. Around airports, electric utilities, commercial buildings, manufacturing plants, storage yards, rail yards, fence lines, parkways, ornamental gardens, walkways, and patios. Also beneath greenhouse benches, along driveways, and around golf courses.

## RECOMMENDATIONS FOR ANNUAL GRASSES

Apply only to actively growing grasses at recommended weed heights.

Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.

Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	<u></u>	WEED* HEIGHT INCHES	RATE FL. OZ./ ACRE	HIGH RATE
Barnyardgrass Broadleaf Signalgrass Brome	Echinochloa crusgalli Brachiaria platyphylla	2-8 2-6	6	8
California Cheatgrass Downy Ripgut Crabgrass	Bromus carinatus Bromus secalinus Bromus tectorum Bromus diandrus	2-6 2-6 2-6 2-6	6 6 6	88
Hairy Large Smooth Southern Crowfootgrass Fall Panicum Field Sandbur Foxtail	Digitaria adscendens Digitaria sanguinalis Digitaria ischaemum Digitaria ciliaris Dactyloctenium aegyptium Panicum dichotomiflorum Cenchrus incertus	2-6 * * 2-6 * * 2-6 * * 2-6 * * 2-6 * * 2-8 2-6	6 6 6 6 6 6	8 8 8 8 8 8 8
Giant Green Yellow Foxtail Barley Goosegrass Itchgrass Junglerice Lovegrass (Stinkgrass) Red Rice	Setaria faberi Setaria viridis Setaria glanca Hordeum jubatum Eleusine indica Rottboellia exaltata Echinochloa colona Eragrostis cilanensis Oryza sativa	2-12 2-8 2-6 2-6** 2-6 2-6 1-3	6666666	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Rygrass Hardy Italian Seedling Johnsongrass Shattercane Southwestern Cupgrass	Lolium perenne Lolium multiflorum Sorghum halepense Sorghum bicolor Eriochloa gracilis	2=6 2=6 4-10 6-18 2-6	6 6 6 6 6	8 8 8 8 8
Sprangle top Amazon Bearded Mexican Red Texas Panicum Volunteer Cereals	Leptochloa panicoides Leptochloa fascicularis Leptochloa uninervia Leptochloa filiformis Panicum texanum	2-6 2-6 2-6 2-6 2-6	6 6 6 6	8 8 8 8 8 8
Barley Oats Rye Wheat Volunteer Corn Volunteer Corn Volunteer Grain Sorghum Wild Oats Wild Proso Millet Witchgrass Woolly Cupgrass	Hordeum vulgare Avena sativa Secale cereale Triticum aestivum Zea mays Zea mays Sorghum bicolor Avena fatua Panicum miliaceum Panicum capillare Eriochloa villosa	2-6 2-6 2-6 2-6 4-12 12-24 8-12 2-6 2-10 2-8 2-8	666666666666666666666666666666666666666	888888888888888888888888888888888888888

Generally occurs between 3-leaf stage and tillering. Length of lateral growth.

# RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH SELECT 2 EC HERBICIDE

GRASS SPECIES		WEED STAGE	RATE FL. OZ./ ACRE	HIGH RATE
Annual Bluegrass	(Poa annua)	to 4-Leaf	6	16

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Always add a crop oil concentrate containing at least 15% emulsifier at 1% v/v (but not less than 1 pint per acre) to the finished spray volume.

# DIRECTIONS FOR USE IN SOYBEANS AT A REDUCED RATE RECOMMENDATIONS FOR ANNUAL GRASSES

GRASS SPECIES		WEED HEIGHT INCHES	RATE FL.OZ/ ACRE
Barnyardgrass	Echinochloa crus-galli	1-4	4
Broadleaf Signalgrass	Brachiaria platyphylla	1-4	- 5
Crabgrass			
Large	Digitaria sanguinalis	1-3*	4
Large	Digitaria sanguinalis	1-4*	5
Smooth	Digitaria ischaemum	1-3*_	4
Smooth	Digitaria ischaemum	1-4*	5.
Southern	Digitaria ciliaris	1-4*	5
Fall Panicum	Panicum dichotomiflorum	1-4	4
Foxtail, Giant	Setaria faberi	1-4	4
Seedling Johnsongrass	Sorghum halepense	1-6	5
Shattercane	Sorghum bicolor	4-10	4
Texas Panicum	Panicum texanum	1-4	5
Wild Proso Millet .	Panicum millaceum	1-6	4

<sup>\*</sup>Length of lateral growth

# RECOMMENDATIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT INCHES	RATE FL. OZ./ ACRE	HIGH RATE
Bermudagrass -			
(Cynodon dactylon)	3 (or up to	· · · · · · · · · · · · · · · · · · ·	••
First Application	6" runners)	8	16
Repeat Application(s)	3 (or up to		
(if regrowth occurs)	6" runners)	8	16
Fescue, tall			
(Festuca arundinacea)	·		
First Application	4-8		16
Repeat Application(s)			10
(if regrowth occurs)	4-8	8	16
Orchardgrass			
(Dactylis glomerata)	<del>.</del>	-	<u>-</u>
First Application	4-8	8	16
Repeat Application(s)	•	_	
(if regrowth occurs)	4-8	8	16
Quackgrass	: .		_
(Agropyron repens)			
First Application	4-12	8	16
Repeat Application(s)		-	
(if regrowth occurs)	4-12	8	16
Rhizome Johnsongrass			
(Sorghum halepense)	·		
First Application	12-24	8	16
Repeat Application(s)		<u> </u>	10
(if regrowth occurs)	6-18	6	8
Wirestem Muhly			
(Muhlenbergia frondisa)	•		
First Application	4-8		16
Repeat Application(s)	. •	<b>3</b>	, · · · ·
(if regrowth occurs)	4-8	8 .	16
	<u> </u>	mada a faransa a sa	e e e e e e e e e e e e e e e e e e e

### TANK MIXES

# TANK MIX APPLICATION OF SELECT 2 EC HERBICIDE AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS IN SOYBEANS

### **GENERAL INFORMATION**

The labels for each of the herbicides recommended for tank mixing with SELECT 2 EC Herbicide are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the SELECT 2 EC Herbicide label in certain considerations. Those concerns may include, but are not limited to:

- 1. Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
- 2. Crop rotation restrictions;
- 3. Soil type or soil characteristics (e.g. pH, OM);
- 4. Maximum dosage or number of applications per season;
- 5. Rain free period required; or
- 6. Application timing (e.g. pre-harvest interval)

# THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

- Apply only to actively growing grass and broadleaf weeds at recommended height or growth stage listed on each label.
- Apply when the first grass or broadleaf weed species in a mixed population reaches the recommended height or growth stage for treatment.
- Apply under favorable soil moisture and humidity which exist a few days after rainfall or within seven days after irrigation.
- Always add a crop oil concentrate to the spray mix at the rate recommended for each specific tank mix combination in Table 1.
- Tank mix applications may sometimes result in reduced grass control and possible increases in crop
  injury as compared to either product used alone. If regrowth occurs, or an additional flush of new
  grass emerges, make a second application of SELECT 2 EC Herbicide, as specified in the respective
  size and rate tables. DO NOT EXCEED A TOTAL OF 32 FL. OZ./ACRE (0.5 LB.AI/A) OF SELECT 2
  EC HERBICIDE PER SEASON, WHETHER APPLIED ALONE OR IN TANK MIX APPLICATIONS.
- Do not tank mix SELECT 2 EC Herbicide when broadleaf weeds are tall and/or dense enough to prevent proper grass coverage.

### INFORMATION ON ANTAGONISM

Tank mixes of SELECT 2 EC Herbicide with postemergence broadleaf herbicides have shown some reduction or failure to control certain grass species which would have otherwise been controlled when SELECT 2 EC Herbicide is applied alone. Activity of the postemergence broadleaf herbicide in the tank mix is not affected.

Table 1

SELECT 2 EC HERBICIDE TANK MIXES TO CONTROL ANNUAL GRASSES (FOXTAIL AND FALL PANICUM) WHEN USED AS A BURNDOWN IN NO-TILL SOYBEANS

PRODUCT	PRODUCT/ ACRE RATE(1)	GRASS	CROP OIL 28%N (CONC.(2) (V/V)	
	ACRE KATE	HEIGHT	CONC. (V/V)	QTS./A
SELECT 2 EC Herbicide	3 fl. oz.	Foxtail 1-3" Fall Panicum 1-3"	1%	1-2
	or		_	
	4 fl. oz.	-Foxtail 1-4"	1%	1-2
+	+	Fall Panicum 1-4"		
2,4-D ESTER	0.5 lb			-
SELECT 2 EC Herbicide	3 fl. oz.	Foxtail 1-3" Fall Panicum 1-3"	1%	1-2
	or -			
	4 fl. oz.	Foxtail 1-4" Fall Panicum 1-4"	1%	1-2
+	+			
PROWL +	2 pts.			
2,4-D ESTER	0.5 lb.	· .		=
SELECT 2 EC Herbicide	3 fl. oz.	Foxtail 1-3" Fall Panicum 1-3"	1%	1-2
	or	•		
	4 fl. oz.	Foxtail 1-4" Fall Panicum 1-4"	1 % - ··· -	1-2
+	+ -			/
SENCOR DF	2-4 oz.			•
+	+			
2,4-D ESTER	0.5 lb.	<del></del>		

If regrowth occurs or an additional flush of new grass emerges, make a second application of SELECT 2 EC Herbicide according to the appropriate size and rate recommendations.

Table 2

### SELECT 2 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR SOYBEANS (REFER TO THE RECOMMENDATION TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES)

		TES/ACRE(1)		
PRODUCT <sup>(2)</sup>	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL (	CONC.(3)
			GROUND	AIR
SELECT 2 EC Herbicide + COBRA®	6 to 8 fl. oz. + 12.5 fl. oz.	8 to 16-fl. oz. + 12.5 fl. oz.	.5 to 1%	1%
SELECT 2 EC Herbicide + BASAGRAN® 4SL	8 to 10 fl. oz. + 1 to 2 pts.	10 to 16 fl. oz. + 1 to 2 pts.	1%,,,,	1%
				4 1 3 7

Always use a crop oil concentrate containing at least 15% emulsifier at the listed rate in the finished spray volume.

SELECT 2 EC Herbicide		8 to 16 fl. oz5 to 1%	1%
BLAZER® 2SL	1 to 1.5 pts.	.±	· 
SELECT 2 EC Herbicide			1%
CLASSIC® 25DG	0.5 to 0.75 oz.	0.5 to 0.75 oz.	
SELECT 2 EC Herbicide <sup>(4)</sup>		8 to 16 fl. oz. 1%	
PURSUIT®	4 fl. oz.	+ 4 fl. oz.	
SELECT 2 EC Herbicide	6 to 8 fl. oz.	8 to 16 fl. oz5 to 1%	1%
REFLEX® 2 LC	0.75 to 1.5 pts.	0.75 to 1.5 pts.	
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	.5%	1%
GALAXY™	32 fl. oz.		
SELECT 2 EC Herbicide <sup>14</sup>	8 to 10 fl. oz.	.5%	1%
+ COBRA	+ 6 to 8 fl. oz.		
CLASSIC 25DG	0.5 to 0.75 oz.		. ! -
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	.5%	1%
COBRA	6 to 10 fl. oz.		-
BASAGRAN 4 SL	1 to 1.5 pts.		ž
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	5%	1%
COBRA	6 to 10 fl. oz.		
PURSUIT	4 fl. oz.		
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	.5%	1%
STORM®	1.5 pts.		
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	1%	1%
RESOURCE Herbicide	4 fl. oz.		Æ –
PURSUIT	4 fl. oz.		
***			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	1%	1%
+ RESOURCE Herbicide	+ 4 fl. oz.		
+ BASAGRAÑ Herbicíde	+ 1 pt.		
SELECT 2 EC Herbicide <sup>(4)</sup>	8 to 10 fl. oz.	1%	1%
RESOURCE Herbicide	- 4 fl. oz.		-
CLASSIC Herbicide	0.5 fl. oz.	·	
SELECT 2 EC Herbicide <sup>(4)</sup>	6 to 8 fl. oz.	.5%	1%
+ COBRA	+ 6 fl. oz.		
+	+		
RESOURCE Herbicide	4 fl. oz.	· · · · · · · · · · · · · · · · · · ·	·

If grass regrowth occurs or an additional flush of new grass emerges, make a second application of SELECT 2 EC Herbicide alone (without a tank mix herbicide), according to the appropriate size and rate recommendations.

(2) Broadleaf weed control may be reduced when grass populations are tall enough or dense enough to intercept the spray pattern and prevent them from receiving complete coverage. Tank mixing is not recommended in these situations.

(3) Always use a crop oil concentrate containing at least 15% emulsifier at the listed rate (but not less than 1 pint per acre) in the finished spray volume.

(4) The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N, or 32%N) is recommended when SELECT 2 EC Herbicide is tank mixed with PURSUIT, RESOURCE, GALAXY, STORM, COBRA + CLASSIC, COBRA + BASAGRAN, and COBRA + PURSUIT.

### TANK MIX APPLICATION OF SELECT 2 EC HERBICIDE AND INSECTICIDES FOR CONTROL OF GRASS WEEDS AND INSECTS IN SOYBEANS AND COTTON

### **GENERAL INFORMATION**

The labels for each of the insecticides recommended for tank mixing with SELECT 2 EC Herbicide are unique to the characteristics of those products and contain restrictions and limitations that may be more restrictive than the SELECT 2 EC Herbicide label in certain considerations. Those concerns may include, but are not limited to:

- 1. Geographic restrictions all products are not registered for use in all areas and rates may vary from one region of labeled use to another;
- Applicator certification requirements;
- Worker safety rules (e.g. protective clothing, reentry time, posting);
   Maximum dosage or number of applications per season;
- Rain free period required; or
- 6. Application timing (e.g. pre-harvest interval)

THE MOST RESTRICTIVE LABELING OF ANY PRODUCT USED IN A TANK MIX MUST BE FOLLOWED.

DO NOT EXCEED A TOTAL OF 32 FL. OZ./ACRE (0.5 LB.AI/A) OF SELECT 2 EC HERBICIDS PER SEASON, WHETHER APPLIED ALONE OR IN TANK MIX APPLICATIONS.

Table 3

### SELECT 2 EC HERBICIDE TANK MIXES WITH INSECTICIDES FOR SOYBEANS AND COTTON (REFER TO THE RECOMMENDATION TABLES ABOVE FOR SPECIFIC GRASSES AND GROWTH STAGES)

PRODUCT <sup>(2)</sup>	APPLICATION RATES/ACRE(1)			
	ANNUAL GRASSES	PERENNIAL GRASSES CROP OIL (3) CONC. (V/V)		
SELECT 2 EC Herbicide + ORTHENE® 75 SP	6 to 8 fl. oz.  + .33 to 1.33 lbs.	8 to 16 fl. oz. + .33 to 1.33 lbs.		
SELECT 2 EC Herbicide + ORTHENE 90 S	6 to 8 fl. oz. + .25 to 1 lb.	8 to 16 fl. oz. 		

If grass regrowth occurs, or an additional flush of new grass emerges, make a second application of SELECT 2 EC Herbicide alone (without a tank mix insecticide) according to the appropriate size and rate recommendations.

Refer to insecticide label for rates and insects controlled.

Always use a crop oil concentrate containing at least 15% emulsifier at the listed rate (but not less than 1 pint per acre) in the finished spray volume.

### **DIRECTIONS FOR USE IN ORNAMENTALS**

For ornamental plant uses, SELECT 2 EC Herbicide can be used to control labeled grass weeds in greenhouses, lathhouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, roadside plantings, and structure landscapes.

### **IMPORTANT**

SELECT 2 EC Herbicide successfully controls weeds in newly transplanted and established nongrassy ornamentals. Plant tolerance to SELECT 2 EC Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of SELECT 2 EC Herbicide have investigated the safety factor to ornamental plants not listed on the label.

The following plants have shown a tolerance for SELECT 2 EC Herbicide applications:

### ORNAMENTAL TREES

SCIENTIFIC NAME
Betula papyrifera
Cornus florida
Acer spp.
Querous spp.
Elaeagnus angustifolia . .
Liquidambar styraciflua !

### GARDEN FLOWERS AND PLANTS

**COMMON NAME** AGERATUM ALYSSUM \* ASPARAGUS FERN **CHRYS'ANTHEMUM** CINQUEFOIL COLEUS CRANESBILL CREEPING FIG **DAHLIA** DAYLILY **GAZANIA GERANIUM** IRIS JASMINE TOBACCO MARIGOLD **PARTRIDGEBERRY** PETUNIA \* **PHLOX PINKS PORTULACA** SALVIA SAXIFRAGE, ROCKFOIL SEDUM SNAPDRAGON \* SWEET WILLIAM TOUCH-ME-NOT VERBENA VIOLET ZINNIA

SCIENTIFIC NAME Ageratum spp. Lobularia maritima Asparagus setaceus Chrysanthemum indicum Potentilla spp. Coleus spp. Geranium spp. Ficus pumila Dahlia spp. Hemerocallis spp. Gazania spp. Pelargonium hortorum Iris spp. Nicotiana alata Tagetes spp. Mitchella domestica Petunia hybrida Phlox spp. Dianthus spp. Portulaca grandiflora Salvia spp. Saxifraga spp. Sedum spp. Antirrhinum majus Dianthus barbatus Balsan spp. Verbena hortensis Viola spp.

Zinnia elegans

\* Slight foliage or flower speckling has been observed on these species.

### GROUND COVERS

COMMON NAME
AJUGA
CREEPING CHARLIE
IVY, ENGLISH
IVY, VARIEGATED YELLOW
IVY, VARIEGATED WHITE
LIRIOPE, GREEN
LIRIOPE, VARIEGATED
MONEYWORT
MONDO GRASS
MONDO GRASS, DWARF
PERIWINKLE

SCIENTIFIC NAME
Ajuga reptans
Glechoma hederaceah
Hedera helix
Hedera helix
Liriope spp.
Liriope muscarii
Lysimachia nummularia
Ophiopogon japonicus
Ophiopogon japonicus "Nana"
Vinca minor

### **SHRUBS**

**COMMON NAME** SCIENTIFIC NAME **ABELIA** Abelia spp. **AUCUBA** Aucuba spp. AZALEA \* Rhododendron spp **BAMBOO** Bambusa spp. BOXWOOD Buxus sempervirens CAMELLIA Camella japonica **CLEYER** Cleyera japonica CORALBERRY CRAPE MYRTLE EUONYMUS Ardisia crenata Lagerstroemia indica Euonymus spp. **GARDENIA** Gardenia spp. HOLLY llex spp. HOLLY, CHINESE HOLLY, JAPANESE HONEYSUCKLE llex cornuta llex crenata Lonicera spp. INDIAN HAWTHORN Raphiolepis indica JAPANESE BARBERRY Berberis Thunbergii **JASMINE** Jasmine spp. JASMINE, ASIATIC JUNIPER, CHINESE JUNIPER, CREEPING Trachelospermum asiaticum Juniperus chinesis Juniperus horizontalis JUNIPER, SHORE \* Juniperus conferta LANTANA NANDINA Lantana spp. Nandinia domestica **PHOTINIA** Photinia spp. **PITTOSPORUM** Pittosporum spp. **PODOCARPUS** Podocarpus spp. **PRIVET** Ligustrum spp. **PYRACANTHA** Pyracantha spp. RHODODENDRON Rhododendron spp. ROSE Rosa spp. SPIREA Spiraea bumalda **WISTERIA** Wisteria spp.

<sup>\*</sup> Slight foliage or flower speckling has been observed on these species.

### RECOMMENDATIONS FOR ANNUAL GRASSES IN ORNAMENTALS

Apply only to actively growing grasses at recommended weed heights.

Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.

Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES		WEED' HEIGHT INCHES	RATE FL. OZ./ ACRE	HIGH RATE
Barnyardgrass Broadleaf Signalgrass Brome	Echinochloa crusgalli Brachiaria platyphylla	2-8	(1) - 8 - 8	(2) 16 16
California Cheatorass Downy Ripgut	Bromus carinatus Bromus secalinus Bromus tectorum Bromus diandrus	2-6 2-6 2-6 2-6	8 8 8	1 <u>6</u> 1 <u>6</u> 16 16
Craborass Hairy Large Smooth Southern Crowfootgrass Fall Panicum Field Sandbur	Digitaria adscendens Digitaria sanguinalis Digitaria ischaemum Digitaria ciliaris Dactyloctenium aegyptiu Panicum dichotomiflorum Cenchrus incertus	2-6** 2-6** 2-6** 2-6** 1 2-8	8 - 8 8 8 8 8 8	16 16 16 16 16 16
Itchgrass Junglerice Lovegrass (Stinkgrass) Red Rice	Setaria laberi	2-12 2-8 2-6 2-6 2-6 2-6 2-6 1-3	8 8 8	16 16 16 16 16 16 16
Rydrass Hardy Italian Seedling Johnsongrass Shattercane Southwestern Cupgrass	Lolium perenne Lolium multiflorum Sorghum halepense Sorghum bicolor Eriochloa gracilis	2-6 2≟6 4-10 6-18 2-6	8 8 8 8	16 16 16 16 16
Sprangle top Amazon Bearded Mexican Red Texas Panicum	Leptochloa panicoides Leptochloa fascicularis Leptochloa uninervia Leptochloa filiformis Panicum texanum	2-6 2-6 2-6 2-6 2-6 2-6	66868	8 8 16 8 16
Volunteer Cereals Barley Oats Rye Wheat Volunteer Corn Volunteer Corn Volunteer Grain Sorghum Wild Oats Wild Proso Millet Witchgrass Woolly Cupgrass	Hordeum vulgare Avena sativa Secale cereale Triticum aestivum Zea mays Zea mays Sorghum bicolor Avena fatua Panicum miliaceum Panicum capillare Eriochloa villosa	2-6 2-6 2-6 2-6 4-12 12-24 8-12 2-6 2-10 2-8 2-8	.8 8. 8	16 16 16 8 16 8 16 16 16

<sup>\*</sup> Generally occurs between 3-leaf stage and tillering.

\*\* Length of lateral growth.

(1) 8 fl. oz./acre = approximately 0.2 fl. oz./1000 sq. ft.

(2) 16 fl. oz./acre = approximately 0.4 fl. oz./1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

# RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH SELECT 2 EC HERBICIDE IN ORNAMENTALS

GRASS SPECIES	WEED STAGE	RATE FL. OZ./ ACRE	HIGH RATE
Annual Bluegrass (Poa annua)	to 4-Leaf	6	16

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and / or when annual bluegrass is more mature.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

### RECOMMENDATIONS FOR PERENNIAL GRASSES

Apply only to actively growing grasses at recommended weed heights.

 Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.

Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT INCHES	RATE FL. OZ./ ACRE	HIGH RATE
Bermudagrass (Cynodon dactylon) First Application	3 (or up to 6" runners)	(1) 8	(2) 16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
Quackgrass (Agropyron repens)		-	
First Application Repeat Application(s) (if regrowth occurs)	4-8 4-8	8	16 16
Rhizome Johnsongrass (Sorghum halepense)			
First Application Repeat Application(s)	12-24	8	16
(if regrowth occurs)	6-18	6	8
Wirestem Muhiy (Muhlenbergia frondisa)			
First Application Repeat Application(s)	4-8	8	16
(if regrowth occurs)	4-8	<b>8</b>	.16

(1) 8 fl. oz./acre = approximately 0.2 fl. oz./1000 sq. ft.

<sup>(2) 16</sup> fl. oz./acre = approximately 0.4 fl. oz./1000 sq. ft.

Add a non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. pet 50 gals. (0.25% v/v).

### STORAGE AND DISPOSAL

### **PROHIBITIONS**

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

#### STORAGE

Keep pesticide in original container.

Do not put concentrate or dilute into food or drink containers.

Store in cool, dry place.

Do not store diluted spray.

Emergency Response: For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### IMPORTANT INFORMATION. READ BEFORE USING PRODUCT.

LIMITED WARRANTY: 1. Valent U.S.A. Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. Valent does not make nor authorizes any agent or representative to make, any other warranty, guarantee or representation, express or implied, concerning this product. Specifically, NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.

2. Critical and unforeseeable factors beyond Valent's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which product is applied, lack of complete control over the handling and application of this product, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Valent under 1 above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the product.

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BLAZER® - Reg. TM of BASF AG.
CLASSIC® - Reg. TM of E.I. DuPont de Nemours & Co. Inc. for chlorimuron ethyl herbicide.
ORTHENE® - Reg. TM of Monsanto Company for acephate insecticide.
PURSUIT® - Reg. TM of American Cyanamid Co. for imazethapyr herbicide.
REFLEX® - Reg. TM of ICI Americas, Inc. for fomesafen herbicide.
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