

FEB 17 1994

Eric D. Bruce
Valent U.S.A. Corporation
1333 North California Blvd.
Suite 600
P.O. Box 8025
Walnut Creek, CA 94596-8025

Dear Mr. Bruce:

Subject: Revised Labeling
Select 2EC
EPA Registration No. 59639-3
Your Submission Dated October 19, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Within the Ingredient statement, correct the spelling of the chemical name of the Active Ingredient to read "(E)-2[1-[(3-chloro-2-propenyl)oxy]imino]propyl]...".
- 2) Add the appropriate Net Contents statement to the front panel.

A stamped copy is enclosed for your records. Please submit five (5) final printed copies for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

CONCURRENCES							
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	2/16/94						



WPS
acceptable
T. Ady
2/16/94

ACCEPTED
with COMMENTS
in EPA Letter Dated

FEB 17 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
59639-3

SELECT[®]

2 EC HERBICIDE

Active Ingredient	By Wt.
*Clethodim	25%
Inert Ingredients	75%
Contains Petroleum Distillates	
*(E)-2(1-[[[(3-chloro-2-propenyl)oxy]imino]propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one	
Contains 2.0 lbs. clethodim per gal.	
U.S. Pat. No. 4,440,566	

KEEP OUT OF REACH OF CHILDREN

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.)

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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

In case of eye contact, flush eyes immediately with fresh water for 15 minutes. 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 on skin, wash with plenty of soap and water. Get medical attention if irritation persists. 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.

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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.

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.

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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 (Except CA), Cotton, Ornamentals

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.

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ADDITION OF ADJUVANT OR CROP OIL CONCENTRATE

CROP

ADJUVANT RECOMMENDATIONS

COTTON AND SOYBEANS

Always use 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.

The addition of 1 to 2 qts./A of liquid fertilizer (10-34-0, 28%N or 32%N) may enhance SELECT 2 EC Herbicide activity on certain grass species such as giant foxtail and volunteer corn.

ORNAMENTAL PLANTS

Add a ~~Valent X-77 Spreader (non-ionic surfactant)~~ or other quality 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.

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.

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.

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Spot Treatment

When using hand sprayers or high volume sprayers utilizing hand guns, mix ¼% ~~to ½%~~ SELECT 2 EC Herbicide ~~2 EC~~ Herbicide and 1% crop oil concentrate according to amounts shown in the table below. Treat to wet vegetation, while not allowing runoff of spray solution.

SELECT 2 EC Herbicide/Oil To Be Added

Desired Spray Vol. Gal.	SELECT 2 EC Herbicide	
	Herbicide Fl. Oz.	Oil Conc. Fl. Oz.
3	1	2
25	8	16
50	16	32
100	32	64

ANNUAL AND PERENNIAL GRASS WEED CONTROL

Region A

Washington, Oregon, Idaho, Montana, Wyoming, North Dakota, South Dakota, Nebraska, Kansas, Minnesota, Iowa, Missouri, Arkansas, Louisiana, Wisconsin, Illinois, Tennessee, Mississippi, Indiana, Kentucky, Ohio, Georgia, Florida, Alabama, South Carolina, North Carolina, Virginia, West Virginia, Maryland, Delaware, Pennsylvania, New Jersey, New York, Connecticut, Massachusetts, Vermont, New Hampshire, Maine, Rhode Island, Michigan, Washington D.C., and east of Interstate 35 in Oklahoma and Texas.

Region B

Arizona, California, Colorado, Nevada, New Mexico, Utah, ~~Hawaii~~, and west of Interstate 35 in Oklahoma and Texas.

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RECOMMENDATIONS FOR ANNUAL GRASSES

Region A & B

- 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	Echinochloa crusgalli	2-6 8	6	8
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	6	8
Crabgrass				
Large	Digitaria sanguinalis	2-6**	6	8
Smooth	Digitaria ischaemum	2-6**	6	8
Southern	Digitaria ciliaris	2-6**	6	8
Crowfootgrass	Dactyloctenium aegyptium	2-6**	6	8
Fall Panicum	Panicum dichotomiflorum	2-6 8	6	8
Field Sandbur	Cenchrus incertus	2-6	6	8
Foxtail				
Giant	Setaria faberi	2-12	6	8
Green	Setaria viridis	2-6 8	6	8
Yellow	Setaria glauca	2-6 8	6	8
Goosegrass	Eleusine indica	2-6**	6	8
Itchgrass	Rottboellia exaltata	2-6	6	8
Junglerice	Echinochloa colona	2-6	6	8
Red Rice	Oryza sativa	1-3	6	8
Seedling Johnsongrass	Sorghum halepense	4-10	6	8
Shattercane	Sorghum bicolor	4-10 6-18	6	8
Southwestern Cupgrass	Eriochloa gracilis	2-6	6	8
Sprangle top				
Amazon	Leptochloa panicoides	2-6	6	8
Bearded	Leptochloa fascicularis	2-6	6	8
Red	Leptochloa filiformis	2-6	6	8
Texas Panicum	Panicum texanum	2-6	6	8
Volunteer Cereals				
Barley	Hordeum vulgare	2-6	6	8
Oats	Avena sativa	2-6	6	8
Rye	Secale cereale	2-6	6	8
Wheat	Triticum aestivum	2-6	6	8
Volunteer Corn	Zea mays	4-12	4	6
Volunteer Corn	Zea mays	12-18 24	6	8
Volunteer Grain Sorghum	Sorghum bicolor	8-12	6	8
Wild Oats	Avena fatua	2-6	6	8
Wild Proso Millet	Panicum miliaceum	2-8 10	6	8
Witchgrass	Panicum capillare	2-6 8	6	8
Woolly Cupgrass	Eriochloa villosa	2-6 8	6	8

* Generally occurs between 3-leaf stage and tillering.

** Length of lateral growth.

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**RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL
WITH SELECT ~~2 EC~~ HERBICIDE**

GRASS SPECIES	WEED STAGE	RATE	HIGH RATE
		FL. OZ. ACRE	
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.

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RECOMMENDATIONS FOR PERENNIAL GRASSES

Region A

- 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	6116
Repeat Application(s)	3 (or up to		
(if regrowth occurs)	6" runners)	8	6116
Quackgrass			
(Agropyron repens)			
First Application	4-8	8	6116
Repeat Application(s)			
(if regrowth occurs)	4-8	8	6116
Rhizome Johnsongrass			
(Sorghum halepense)			
First Application	12-24	8	6116
Repeat Application(s)			
(if regrowth occurs)	6-10	6	8
Wirestem Muhly			
(Muhlenbergia frondosa)			
First Application	4-8	8	6116
Repeat Application(s)			
(if regrowth occurs)	4-8	8	6116

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RECOMMENDATIONS FOR PERENNIAL GRASSES

Region B

- 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
<hr/>			
Bermudagrass (Cynodon dactylon)			
First Application	3 (or up to 6" runners)	8	16
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
<hr/>			
Rhizome Johnsongrass (Sorghum halepense)			
First Application	6-10 12-18	8	16
Repeat Application(s) (if regrowth occurs)	4-8 12-18	6	8
<hr/>			

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TANK MIXES

TANK MIX APPLICATION OF SELECT 2 EC HERBICIDE AND BROADLEAF HERBICIDES FOR CONTROL OF GRASSES AND BROADLEAF WEEDS IN SOYBEANS (EXCEPT CA)

GENERAL INFORMATION - REGIONS A AND B

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 for Region A and Region B. **DO NOT EXCEED A TOTAL OF 32 FL. OZ./ACRE (0.5 LBAI/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.
- ~~Do not tank mix SELECT 2 EC Herbicide with SCEPTER® Herbicide.~~

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.

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Table 1

**SELECT 2 EC HERBICIDE TANK MIXES WITH BROADLEAF HERBICIDES FOR
SOYBEANS - REGIONS A AND B
(REFER TO THE REGION A AND REGION B RECOMMENDATION TABLES ABOVE
FOR SPECIFIC GRASSES AND GROWTH STAGES)**

PRODUCT	APPLICATION RATES/ACRE			
	ANNUAL GRASSES	PERENNIAL GRASSES	CROP OIL CONC. (V/V)	
			GROUND	AIR
SELECT 2 EC HERBICIDE + COBRA*	6 to 8 fl. oz. + 12.5 oz.	8 to 16 fl. oz. + 12.5 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%
SELECT 2 EC HERBICIDE + BLAZER* 2SL	6 to 8 fl. oz. + 1 to 1.5 pts.	8 to 16 fl. oz. + 1 to 1.5 pts.	.5 to 1%	1%
SELECT 2 EC HERBICIDE + CLASSIC* 2SDG	8 to 10 fl. oz. + .5 to .75 oz.	10 to 16 fl. oz. + .5 to .75 oz.	1%	1%
SELECT 2 EC HERBICIDE + PURSUIT*	6 to 8 fl. oz. + 4 oz.	8 to 16 fl. oz. + 4 oz.	1%	1%
SELECT 2 EC HERBICIDE + REFLEX* 2 LC	6 to 8 fl. oz. + .75 to 1.5 pts.	8 to 16 fl. oz. + .75 to 1.5 pts.	.5 to 1%	1%

1. 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 for Region A or Region B.

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. ~~Do not apply to soybeans in bloom or to soybeans in the seedling stage.~~

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.

**TANK MIX APPLICATION OF SELECT 2 EC HERBICIDE AND INSECTICIDES
FOR CONTROL OF GRASS WEEDS AND INSECTS IN SOYBEANS
(EXCEPT CA) AND COTTON**

GENERAL INFORMATION - REGIONS A AND B

The labels for each of the insecticides recommended for tank mixing with SELECT 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. Applicator certification requirements;
3. Worker safety rules (e.g. protective clothing, reentry time, posting);
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.

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.

Table 2

**SELECT 2 EC HERBICIDE TANK MIXES WITH INSECTICIDES FOR SOYBEANS (EXCEPT CA)
AND COTTON - REGIONS A AND B
(REFER TO THE REGION A AND REGION B RECOMMENDATION TABLES ABOVE FOR
SPECIFIC GRASSES AND GROWTH STAGES)**

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

- (1) 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 for Region A or Region B.
- (2) Refer to insecticide label for rates and insects controlled.
- (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.

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.

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 plants. Cultural practices such as continuous no-tillage in which the perennial grass rhizomes or stolons are not cut up results in a very ragged, non-uniform plant emergence. Due to this non-uniform weed emergence, a 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

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regrowth occurs, an additional application of SELECT 2 EC Herbicide may be necessary.

~~Do not tank mix with SCEPTER® Herbicide.~~

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 aerial 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 length should be set according to manufacturer's instructions to minimize drift.
 3. Increasing the volume of spray mixture (for example a minimum of 10 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.

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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.

ORNAMENTALS

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

DIRECTIONS FOR USE IN ORNAMENTALS

GENERAL INFORMATION

SELECT 2 EC Herbicide can be used to control labeled grass weeds in greenhouses, lathouses, shadehouses, and around outdoor ornamentals, including nurseries, parks, Christmas or other tree farms, roadside plantings, and structure landscapes.

Apply SELECT 2 EC Herbicide postemergence to actively growing grasses according to the rate table recommendations. Add a ~~VALENT X-77 Spreader (non-ionic surfactant)~~ or other quality 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.

Use the higher recommended rate of SELECT 2 EC Herbicide under heavy grass pressure and/or when grasses are approaching their maximum treatment height (see rate table).

Do not apply more than 32 fl. oz. (0.5 lb. ai) of SELECT 2 EC Herbicide per acre per season. Do not apply to grasses which have formed seed heads or are stressed.

IMPORTANT

SELECT 2 EC Herbicide successfully controls weeds in newly transplanted and established non-grassy ornamentals. Plant tolerance to SELECT 2 EC Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed in the tables. 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:

NONBEARING 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
CHERRIES
OLIVES
ORANGES

SCIENTIFIC NAME

Malus sylvestris
Prunus spp.
Olea spp.
Citrus sinensis

PEACHES
PEARS
PECANS
PISTACHIOS
PRUNES
STRAWBERRIES

Prunus persica
Pyrus communis
Carya illinoensis
Pistacia vera
Prunus domestica
Fragaria x ananassa

ORNAMENTAL TREES

COMMON NAME

SCIENTIFIC NAME

BIRCH, WHITE
DOGWOOD, FLOWERING
FIR, DOUGLAS
FIR, GRAND
MAPLES
OAKS
OLIVE, COMMON
PINES
SWEET GUM

Betula papyrifera
Cornus florida
Pseudotsuga menziesii
Abies grandis
Acer spp.
Quercus spp.
Elaeagnus angustifolia
Pinus spp.
Liquidambar styraciflua

GARDEN FLOWERS AND PLANTS

COMMON NAME

SCIENTIFIC NAME

AGERATUM
ALYSSUM *
ASPARAGUS FERN
CHRYSANTHEMUM
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

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 glauca
Tagetes spp.
Mitchella repens
Petunia spp.
Phlox spp.
Dianthus spp.
Portulaca grandiflora
Salvia spp.
Saxifraga spp.
Sedum spp.
Antirrhinum majus
Dianthus barbatus
Balsamorhiza spp.
Verbena officinalis
Viola spp.
Zinnia elegans

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

GROUND COVERS

COMMON NAME

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

SCIENTIFIC NAME

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

SHRUBS

COMMON NAME

ABELIA
 AUCUBA
 AZALEA *
 BAMBOO
 BOXWOOD
 CAMELLIA
 CLEYER
 CORALBERRY
 CRAPE MYRTLE
 EUONYMUS
 GARDENIA
 HOLLY
 HOLLY, CHINESE
 HOLLY, JAPANESE
 HONEYSUCKLE
 INDIAN HAWTHORN
 JAPANESE BARBERRY
 JASMINE
 JASMINE, ASIATIC
 JUNIPER, CHINESE
 JUNIPER, CREEPING
 JUNIPER, SHORE *
 LANTANA
 NANDINA *
 PHOTINIA
 PITTOSPORUM
 PODOCARPUS
 PRIVET
 PYRACANTHA
 RHODODENDRON
 ROSE
 SPIREA
 WISTERIA

SCIENTIFIC NAME

Abelia spp.
 Aucuba spp.
 Rhododendron spp.
 Bambusa spp.
 Buxus sempervirens
 Camellia japonica
 Cleyera japonica
 Ardisia crenata
 Lagerstroemia indica
 Euonymus spp.
 Gardenia spp.
 Ilex spp.
 Ilex cornuta
 Ilex crenata
 Lonicera spp.
 Raphiolepis indica
 Berberis Thunbergii
 Jasmine spp.
 Trachelospermum asiaticum
 Juniperus chinensis
 Juniperus horizontalis
 Juniperus conferta
 Lantana spp.
 Nandinia domestica
 Photinia spp.
 Pittosporum spp.
 Podocarpus spp.
 Ligustrum spp.
 Pyracantha spp.
 Rhododendron spp.
 Rosa spp.
 Spiraea bumalda
 Wisteria spp.

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

2004

RECOMMENDATIONS FOR ANNUAL GRASSES

Region A & B

- 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
			(1)	(2)
Barnyardgrass	Echinochloa crusgalli	2-6	8	16
Broadleaf Signalgrass	Brachiaria platyphylla	2-6	8	16
Crabgrass				
Large	Digitaria sanguinalis	2-6**	8	16
Smooth	Digitaria ischaemum	2-6**	8	16
Southern	Digitaria ciliaris	2-6**	8	16
Crowfootgrass	Dactyloctenium aegyptium	2-6**	8	16
Fall Panicum	Panicum dichotomiflorum	2-6	8	16
Field Sandbur	Cenchrus incertus	2-6	8	16
Foxtail				
Giant	Setaria faberi	2-12	8	16
Green	Setaria viridis	2-6	8	16
Yellow	Setaria glauca	2-6	8	16
Goosegrass	Eleusine indica	2-6**	8	16
Itchgrass	Rottboellia exaltata	2-6	8	16
Junglerice	Echinochloa colona	2-6	8	16
Red Rice	Oryza sativa	1-3	8	16
Seedling Johnsongrass	Sorghum halepense	4-10	8	16
Shattercane	Sorghum bicolor	4-10 6-18	8	16
Southwestern Cupgrass	Eriochloa gracilis	2-6	8	16
Sprangle top				
Amazon	Leptochloa panicoides	2-6	6	8
Bearded	Leptochloa fascicularis	2-6	6	8
Red	Leptochloa filiformis	2-6	6	8
Texas Panicum	Panicum texanum	2-6	8	16
Volunteer Cereals				
Barley	Hordeum vulgare	2-6	8	16
Oats	Avena sativa	2-6	8	16
Rye	Secale cereale	2-6	8	16
Wheat	Triticum aestivum	2-6	8	16
Volunteer Corn	Zea mays	4-12	4	8
Volunteer Corn	Zea mays	12-18 24	8	16
Volunteer Grain Sorghum	Sorghum bicolor	4-12	6	8
Wild Oats	Avena fatua	2-6	8	16
Wild Proso Millet	Panicum miliaceum	2-8 10	8	16
Witchgrass	Panicum capillare	2-6	8	16
Woolly Cupgrass	Eriochloa villosa	2-6	8	16

- * 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 ~~VALENT X-77 Spreader (non-ionic surfactant)~~ or other non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

Region ~~A & B~~ B

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
<p>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).</p> <p>Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.</p> <p>Use the high rate under heavy grass pressure and / or when annual bluegrass is more mature.</p> <p>Add a VALENT X-77 Spreader (non-ionic surfactant) or other non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).</p>				

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RECOMMENDATIONS FOR PERENNIAL GRASSES

Region A & B

- 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)		(1) 8	(2) 16
First Application	3 (or up to 6" runners)		
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	8	16
Quackgrass (Agropyron repens)			
First Application	4-8	8	16
Repeat Application(s) (if regrowth occurs)	4-8	8	16
Rhizome Johnsongrass (Sorghum halepense)			
First Application	6-24	8	16
Repeat Application(s) (if regrowth occurs)	6-10	6	8
Wirestem Muhly (Muhlenbergia frondisa)			
First Application	4-8	8	16
Repeat Application(s) (if regrowth occurs)	4-8	8	16

(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 VALENT X-77 Spreader (non-ionic surfactant) or other non-ionic surfactant containing at least 80% active ingredient at the rate of 1 pt. per 50 gals. (0.25% v/v).

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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 or Chemtrec 1-800-424-9300.

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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REFLEX® - Reg. TM of ICI Americas, Inc. for fomesafen herbicide.

~~SCEPTER® - Reg. TM of American Cyanamid Co. for imazaquin herbicide.~~

Manufactured for
Walnut Creek, CA 94596-8025
Form R006A 10/21/93 Made in U.S.A.
EPA Reg. No. 59639-3
EPA Est. No. 5905-GA-01