

PM23

45639-172

1/26

NOV 12 1996

Mr. Barry Cortez, Chief  
Pesticide Registration Branch  
Department of Pesticide Regulation  
California Environmental Protection Agency  
1020 N Street, Room 332  
Sacramento, CA 95814-5624

Dear Mr. Cortez:

Subject: Acclaim® IEC Herbicide  
EPA Registration No. 45639-172  
Your Letter Dated September 30, 1996, Request  
To Revise Label Under the Label Revision  
Project Between USEPA and DPR

Pursuant to the subject request, a stamped copy of the proposed labeling for Acclaim IEC Herbicide has been sent to your "Label Revision Pilot Project, Attention Ms. Gail Ziese. The amended precautionary statement and statement of practical treatment are acceptable based on your review of the acute primary dermal irritation study with the subject pesticide product. The use directions were also reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act as amended. A stamped copy of the labeling has been added to this Agency's file for this product. The registrant must be informed to submit to this Agency a final printed label prior to shipment under this stamped label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 6(e). Their release for shipment of the product under the subject labeling constitutes acceptance of this condition.

Sincerely yours,

**BEST AVAILABLE COPY**

Donald R. Stubbs  
Chief  
Fungicide-Herbicide Branch  
Registration Division (7505C)

cc: Ms. Gail Ziese

EWilson: Diskette ABC31:11-CONCURRENCES

SYMBOL	2505C						
SURNAME	DS Miller						
DATE	11/12/96						

Revised: August 13, 1996 (Edition #10)

AUG 16 1996

# ACCLAIM® 1EC HERBICIDE

FOR SELECTIVE POSTEMERGENCE ANNUAL AND PERENNIAL GRASS  
CONTROL IN TURFGRASS INCLUDING SOD FARMS, COMMERCIAL AND  
RESIDENTIAL TURF, ORNAMENTALS, AND RIGHTS-OF-WAY

## ACTIVE INGREDIENT:

fenoxaprop-ethyl: (±)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]  
phenoxy]propanoate\*\*\* 12.50%\*

INERT INGREDIENTS: 87.50%\*\*  
TOTAL 100.00%

\*Equivalent to 1.00 pound of active ingredient per gallon.

\*\*This product contains the toxic inert ingredient dimethylformamide.

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.)

EPA Reg No. 45639-172

EPA Est. No. 45639-CAN-001

Net Contents: [Various Sizes]

\*\*\*Protected by U.S. Patent No 4,130,413



**AgrEvo™**

A company of Hoechst and NOR-AM

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
NOV 12 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
45639-172

AgrEvo USA Company  
Little Falls Centre One  
2711 Centerville Road  
Wilmington, DE 19808

**BEST AVAILABLE COPY**

## PRECAUTIONARY STATEMENTS

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### WARNING

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause substantial but temporary eye injury. Do not get in eyes. Avoid contact with skin or clothing. Harmful if swallowed, absorbed through skin or inhaled. Do not take internally. Avoid inhalation of vapor or spray mist. \*

### **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 F 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, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils or viton  $\geq 14$  mils; shoes plus socks; 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

This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
Do not store over 100 °F or below 10 °F. Do not use or store near heat or open flame.

**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 DISPOSAL:** Empty containers should be triple rinsed (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### STATEMENT OF PRACTICAL TREATMENT

In case of eye contact, immediately flush with plenty of water for 15 minutes. Get medical attention.

If swallowed, do not induce vomiting. Acclaim® 1EC Herbicide contains petroleum distillates. Call a physician. Vomiting should be supervised by a physician because of the possible pulmonary damage via aspiration of the solvent. In case of skin contact, wash with plenty of soap and water. Get medical attention if irritation persists.

If possible, bring this container and labeling to the attending physician.

**IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES,  
OR IN CASE OF FIRE, LEAKING OR DAMAGED CONTAINERS, INFORMATION  
MAY BE OBTAINED BY CALLING: 800-228-5635, EXT. 202**

## GENERAL INFORMATION

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Acclaim 1EC Herbicide is an emulsifiable concentrate (EC) formulation containing 1 pound of active ingredient per gallon. Acclaim 1EC Herbicide is used for postemergence control of annual and perennial grassy weeds in established turfgrass and ornamental species. Acclaim 1EC Herbicide does not control broadleaf weeds or sedges.

Acclaim 1EC Herbicide is absorbed through the foliage. Thorough coverage is important. Visual injury on the grassy weed is evident approximately 4-10 days after application (dependent upon environmental conditions), but control of the grassy weeds will take 12-21 days. Visible effects begin as a general chlorosis (yellowing) and/or reddening of the leaf surface followed by death of the weed.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not use this product until you have read the entire label. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

### **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 intervals. 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.

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, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, or viton  $\geq 14$  mils; shoes plus socks; 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 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. For uses on rights-of-way, commercial and residential turf, golf courses and ornamentals in residential and commercial areas are not within the scope of the WPS.

## DIRECTIONS FOR USE IN TURFGRASS SPECIES

**DIRECTIONS FOR USE IN TURFGRASS SPECIES (Except for Bentgrass Turf)**  
**[See Page 8 for Directions for Use on Bentgrass Turf]**

Acclaim 1EC Herbicide can be applied as a broadcast application to all cultivars of the following turfgrass species:

### Common Name

Kentucky bluegrass  
 perennial ryegrass  
 fine fescue  
 tall fescue  
 annual bluegrass  
 zoysiagrass

### Scientific Name

*Poa pratensis*  
*Lolium perenne*  
*Festuca rubra*  
*Festuca arundinacea*  
*Poa annua*  
*Zoysia* spp.

## WEED SPECIES CONTROLLED

Acclaim 1EC Herbicide will control the following annual grassy weeds:

### Common Name

smooth crabgrass  
 hairy crabgrass  
 goosegrass, silver crabgrass  
 barnyardgrass  
 foxtail species  
 panicum species  
 Johnsongrass (seedling)  
 sandbur  
 sprangletop

### Scientific Name

*Digitaria ischaemum*  
*Digitaria sanguinalis*  
*Eleusine indica*  
*Echinochloa crus-galli*  
*Setaria* spp.  
*Panicum* spp.  
*Sorghum halepense*  
*Cenchrus incertus*  
*Leptochloa* spp.

## WEED SPECIES SUPPRESSED

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Acclaim 1EC Herbicide will temporarily suppress the growth of the following perennial grassy weeds:

Common Name

Scientific Name

common Bermudagrass  
Johnsongrass (rhizome)

*Cynodon dactylon*  
*Sorghum halepense*

Acclaim 1EC Herbicide will suppress the growth of common Bermudagrass and rhizome Johnsongrass. Apply Acclaim 1EC Herbicide at 23 ounces/acre (0.53 oz./1000 sq.ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim 1EC Herbicide every 28-35 days to continue growth suppression of these species. Do not apply more than a total of 138 ounces per acre (3.16 oz./1000 sq.ft.) per growing season.

### APPLICATION INFORMATION

Acclaim 1EC Herbicide is a systemic herbicide which controls only emerged grasses at the time of spraying. Young actively growing grassy weeds are more easily controlled than larger grassy weeds. Spray when the maximum leaf surface area is present for optimum activity. Refer to the following Application Rate and Timing Recommendation Chart for application rates and timing of application. Avoid applications to turfgrass under stress due to lack of moisture, chemical injury, or temperature extremes.

### ACCLAIM 1EC HERBICIDE APPLICATION RATE AND TIMING RECOMMENDATION CHART

Annual Grassy Weed Growth Stage	Fl. Oz./A	Fl. Oz./ 1,000 sq.ft.
1 to 2 leaf	4	0.09
Untilled*	10	0.23
* Untilled, 3 to 4 leaf	15	0.34
1 to 2 tiller	23	0.53
3 tiller or greater	32	0.73
* 3 tiller or greater in all turfgrass except Kentucky bluegrass & zoysiagrass turf	45	1.02

\*Apply this rate only when tank mixing with pre-emergence herbicides.

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### Pressurized Hydraulic Sprayer Application

Apply Acclaim 1EC Herbicide by means of a pressurized hydraulic sprayer using 30-60 psi and 30-60 gallons of water per acre (0.7 to 1.4 gal. of finished spray per 1,000 sq.ft.).

**Thorough spray coverage is essential for optimum results.** Flat fan nozzles are recommended.

### High Volume Handgun Spray Application

If a low pressure (<30 psi), high volume (>60 gpa) handgun type sprayer is utilized, the addition of a surfactant at 32 ounces per 100 gallons is recommended. **Thorough coverage is essential for optimum results.**

### Hand-Held Sprayer Application for Spot Treatments

For hand-held pump-type sprayers, add 0.34 - 0.53 fluid ounce of Acclaim 1EC Herbicide per gallon of water. Apply 0.34 fluid ounce per gallon of water when the grassy weed is in the 1-4 leaf stage of growth. Apply 0.53 fluid ounce per gallon of water when the grassy weed has 1-2 tillers. Spray target weeds thoroughly to the point of spray deposit runoff.

**Optimum results occur when spray coverage is thorough.** The addition of a surfactant will improve coverage. A dye or colorant may be added to avoid spray pattern overlap.

### Mowing Information

Do not mow treated areas for at least 24 hours to allow time for penetration and translocation into the grassy weeds. The effectiveness of Acclaim 1EC Herbicide is reduced when grass clippings interfere with thorough spray coverage of the target weeds.

### Repeat Application Information

Repeat applications of Acclaim 1EC Herbicide may be required under the following conditions (refer to Application Rate and Timing Recommendation Chart for dosages):

- (a) Continued grassy weed seed germination after the initial application
- (b) When dense populations of weeds prevent thorough spray coverage of the entire leaf surface of target weeds
- (c) For suppression of common Bermudagrass and rhizome Johnsongrass

Do not apply more than a total of 138 ounces per acre (3.16 oz./1000 sq.ft.) per growing season. Avoid applying repeat applications of Acclaim 1EC Herbicide sooner than 14 days after the previous application. Repeat Acclaim 1EC Herbicide applications should only be made to grassy weeds with vigorous growth. If turfgrass stunting occurred with the previous application, avoid applying until turfgrass recovery is complete (unless temporary stunting can be tolerated).



## DIRECTIONS FOR USE ON BENTGRASS TURF

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Acclaim 1EC Herbicide may be applied only to the following established bentgrass varieties maintained at a minimum cutting height of at least 1/4": Penncross, Penneagle, Pennlinks, J.H. Bent, Southshore, SR 1020, Providence, Putter, Kingstown, Tracenta, Bardot, Egmont, Allure, Seaside, and Colonial. The turf should be established for at least one growing season before Acclaim 1EC Herbicide is applied. DO NOT apply to bentgrass putting greens.

To control crabgrass and goosegrass in bentgrass turf, **apply 0.09 fluid ounce per 1000 sq. ft. (4 fl.oz./A)**. The Acclaim 1EC Herbicide applications should be made at a minimum of 21-day intervals beginning in the spring when annual grassy weeds first emerge and are not larger than 2 leaf. Repeat applications throughout the summer as new infestations of 1-2 leaf annual grassy weeds occur. DO NOT apply more than 10 applications per growing season. Delay repeat applications to bentgrass turf under stress conditions. Injury may occur when applied during or immediately following periods of prolonged cool and/or moist conditions. Tank mixing with micronutrient mixes containing nitrogen and iron or slow release nitrogen products may alleviate injury symptoms to bentgrass turf. Best results have been obtained with Coron<sup>16</sup> at 10 ounces per 1000 sq. ft., N-Sure<sup>17</sup> at 10 ounces per 1000 sq. ft. or Lesco Iron Plus<sup>2</sup> at 4 ounces per 1000 sq. ft. Spray volumes of 100 gallons per acre (2.29 gal./1000 sq. ft.) are suggested for improved bentgrass turf tolerance. DO NOT tank mix Acclaim 1EC Herbicide with other pesticides or fertilizers on bentgrass turf except those fungicides listed on this label. The use of a colorant or dye in the spray tank is recommended so that spray pattern overlapping can be avoided.

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## DIRECTIONS FOR USE OF ACCLAIM 1EC HERBICIDE IN TANK MIXES

### A. Pre-emergence Residual Herbicides

A tank mix application of Acclaim 1EC Herbicide and residual herbicides may be made to provide residual annual grass control. Apply after grassy weed germination. Always follow the use directions in accordance with the respective labels. No label dosage rates should be exceeded.

Apply Acclaim 1EC Herbicide at rates of **10 - 32 ounces per acre or 0.23 - 0.73 ounce per 1000 sq.ft.** according to the Application Rate and Timing Recommendation Chart when tank mixing with the following products:

<u>Product Name</u>	<u>Rate/Acre</u>	<u>Ounces/1000 sq.ft.</u>
Barricade <sup>15</sup> 65DG	0.5 - 1.5 pounds	0.18 - 0.54
bensulide 4E	1.88 - 3.1 gallons	5.6 - 9.4
Dacthal <sup>1</sup> W75	6 - 20 pounds	2.2 - 7.0
Dimension <sup>14</sup>	1.5 - 2.0 quarts	1.1 - 1.46
pendimethalin 60DG	2.5 - 5.0 pounds	0.9 - 1.8
Tupersan <sup>3</sup> 50W	16 - 24 pounds	6 - 9

## B. Postemergence Broadleaf Herbicides

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A tank mix application of Acclaim 1EC Herbicide and broadleaf herbicides may be made to provide broadleaf weed and annual grassy weed control. Apply after grassy weed germination. Always follow the use directions in accordance with the respective labels. No label dosage rates should be exceeded.

Apply Acclaim 1EC Herbicide at rates of **10 - 45 ounces per acre or 0.23 - 1.02 ounce per 1000 sq.ft.** according to the Application Rate and Timing Recommendation Chart when tank mixing with the following products. Apply the 10 ounce rate only when tank mixing with pre-emergence products.

<u>Product Name</u>	<u>Rate/Acre</u>	<u>Ounces/1000 sq.ft.</u>
Basagran <sup>TM</sup>	2 - 4 pints	0.75 - 1.5
dicamba 4E	0.25 - 0.50 pint	0.09 - 0.18
Confront <sup>4</sup>	1 - 2 pints	0.37 - 0.73
Turflon <sup>4</sup> Amine 3EC	1 - 4 pints	0.37 - 1.50
Turflon <sup>4</sup> Ester 4EC	1 - 2 pints	0.37 - 0.73

\* When tank mixing Acclaim 1EC Herbicide with Basagran T/O, apply Acclaim 1EC Herbicide at a minimum of 15 ounces per acre or 0.34 ounce per 1000 sq.ft. when the grassy weeds are untilled, and at a minimum of 32 ounces per acre or 0.73 ounce per 1000 sq.ft. when the grassy weeds have a maximum of 4 tillers.

Always apply the following tank mixes of Acclaim 1EC Herbicide with pendimethalin at 2.5 pounds per acre or 0.9 ounce per 1000 sq.ft. **Apply before grassy weed tillering** at a rate of **32 ounces per acre or 0.73 ounce per 1000 sq. ft.** when mixing with the following products. Apply by means of a pressurized hydraulic sprayer using 30-60 psi and 30-60 gpa. Thorough spray coverage is important. Flat fan nozzles are required.

<u>Product Name</u>	<u>Rate/Acre</u>	<u>Ounces/1000 sq.ft.</u>
Lesco Three Way	3.3 - 4.0 pints	1.2 - 1.5
Super Trimec <sup>6</sup>	2 - 3 pints	0.75 - 1.10
Trimec <sup>6</sup> Turf Ester	2 - 3 pints	0.75 - 1.10
Trimec <sup>6</sup> 992	2 - 3 pints	0.75 - 1.10
Turflon <sup>4</sup> D	1 - 2 quarts	0.73 - 1.50
Turflon <sup>4</sup> II Amine	1 - 2 quarts	0.73 - 1.50
2,4-D amine 4	1.5 - 2.0 pints	0.60 - 0.73

### C. Insecticides

Acclaim 1EC Herbicide may be tank mixed with the following insecticides only by or under the direct supervision of certified commercial applicators responsible for pest control programs as specified on the specific insecticide label. Apply after grassy weed germination. Always follow the use directions in accordance with the respective labels. No label dosage rates should be exceeded.

Apply Acclaim 1EC Herbicide at rates of **15 - 45 ounces per acre or 0.34 - 1.02 ounces per 1000 sq.ft.** according to the Application Rate and Timing Recommendation Chart when tank mixing with the following products:

<u>Product Name</u>	<u>Rate/Acre</u>	<u>Ounces/1000 sq.ft.</u>
Diazinon 4EC	—	2 - 6
Dursban <sup>4</sup> 4E	1 - 4 quarts	0.75 - 3.00
Dursban <sup>4</sup> 50W	2 - 8 pounds	0.75 - 3.00
Offanol <sup>7</sup> 2	2 - 4 quarts	1.5 - 3.0
Triumph	—	0.75 - 1.5
Turcam	—	1 - 2

**D. Fungicides**

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A tank mix application of Acclaim 1EC Herbicide and fungicides may be made to provide disease and annual grass control. Apply after grassy weed germination. Always follow the use directions in accordance with the respective labels. No label dosage rates should be exceeded.

Apply Acclaim 1EC Herbicide at rates of **15-45 ounces per acre or 0.34- 1.02 ounces per 1000 sq.ft.** according to the Application Rate and Timing Recommendation Chart when tank mixing with the following products:

<u>Product Name</u>	<u>Rate/Acre</u>	<u>Ounces/1000 sq.ft.</u>
Banner <sup>8</sup>	—	1.00 - 4.00
Banol <sup>9</sup> 6 F	—	1.30 - 4.00
Bayleton <sup>7</sup> 25	—	1.00 - 2.00
Chipco <sup>10</sup> 26019	—	1.00 - 2.00
Chipco <sup>10</sup> 26019 FLO	—	3.00 - 4.00
Daconil <sup>1</sup> 2787 F	4 - 24 pints	3.00 - 11.00
Daconil <sup>1</sup> 2787 W75	2.75 - 16 pounds	2.00 - 8.00
Dyrene <sup>12</sup> 4		4.00 - 8.00
Lesco Twosome <sup>2</sup>		3.00 - 8.80
Mancozeb 80 WP		4.00 - 8.00
Rubigan <sup>4</sup> AS		0.75 - 2.00
Rubigan <sup>4</sup> WP		0.20 - 4.00
Subdue <sup>8</sup> 2 E		1.00 - 2.00
Teremec <sup>6</sup> SP		4.00 - 8.00
Tersan <sup>3</sup> 1991		1.00 - 2.00

**E. Liquid Fertilizers**

Acclaim 1EC Herbicide may be tank mixed with liquid nitrogen fertilizers (up to 1 lb./1000 sq.ft.) and iron chelates.

**NOTES FOR WEED CONTROL IN TURFGRASSES**

1. Stunting and/or chlorosis may occur on succulent, rapidly growing Kentucky bluegrass. Symptoms are temporary and will subside.
2. Adequate soil moisture will enhance the performance of Acclaim 1EC Herbicide. Avoid application of Acclaim 1EC Herbicide under **DROUGHT STRESS** conditions. Thorough irrigation 1 to 2 days before or within 1 day after application will be helpful under these conditions. Rainfall or irrigation within 1 hour of application may cause a reduction in grass control. Allow spray deposit to dry before irrigation.

- 13/26
3. a. Acclaim 1EC Herbicide may be applied at no more than 10 fluid ounces per acre on Kentucky bluegrass seedlings that have **tillered** and have been emerged for over 1 month. Temporary discoloration and stunting of bluegrass seedlings may occur at this timing.
  - b. Annual grassy weeds must be untilled at the time of application for adequate control. Do not reapply Acclaim 1EC Herbicide to previously treated seedling Kentucky bluegrass for at least 2 months.
  - c. When utilizing Acclaim 1EC Herbicide at rates higher than 10 fluid ounces per acre, Kentucky bluegrass seedlings **must** be at least 3 growing months old.
  - d. **DO NOT** apply Acclaim 1EC Herbicide to seedling fine-leaf fescue, tall fescue, or perennial ryegrass less than 4 weeks old.
  4. Broadleaf herbicides such as 2,4-D or MCPP/MCPA may reduce the effectiveness of Acclaim 1EC Herbicide. Tank mixes with 2,4-D or MCPP/MCPA-containing herbicides are most effective on untilled crabgrass. Do not apply Acclaim 1EC Herbicide within 21 days **following** a 2,4-D or MCPP/MCPA application, or 5 days **before** a 2,4-D or MCPP/MCPA application.
  5. Acclaim 1EC Herbicide is a selective grassy weed herbicide and has little or no activity on broadleaf plants and sedges.
  6. Acclaim 1EC Herbicide may be applied to newly plugged zoysiagrass. Fescues and ryegrass may be overseeded immediately following Acclaim 1EC Herbicide applications. All other turf species should be overseeded after a 21-day waiting period.
  7. **DO NOT APPLY** this product through any type of irrigation system.
  8. **DO NOT APPLY** Acclaim 1EC Herbicide to sod within 4 weeks before cutting for transplanting or within 4 weeks after transplanting

## DIRECTIONS FOR USE IN ORNAMENTALS

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Acclaim 1EC Herbicide can be applied for control of grassy weeds in a wide range of established ornamental species. Plant tolerance may vary according to environmental conditions. Determine tolerance prior to extensive use.

Acclaim 1EC Herbicide may be applied as a broadcast spray in the following plantings:

### DECIDUOUS AND EVERGREEN TREES AND SHRUBS

<u>Common Name</u>	<u>Scientific Name</u>
azalea	<i>Rhododendron</i>
barberry	<i>Berberis</i>
boxwood, Korean	<i>Buxus</i>
cotoneaster	<i>Cotoneaster</i>
dogwood, flowering	<i>Cornus</i>
English ivy	<i>Hedera</i>
euonymus	<i>Euonymus</i>
false cypress	<i>Chamaecyparis</i>
firethorn	<i>Pyracantha</i>
forsythia	<i>Forsythia</i>
hawthorn	<i>Crataegus</i>
holly, American	<i>Ilex</i>
holly, Japanese	<i>Ilex</i>
holly, meservae	<i>Ilex</i>
hydrangea	<i>Hydrangea</i>
juniper, blue rug	<i>Juniperus</i>
juniper, dwarf shore	<i>Juniperus</i>
juniper, Parsonii	<i>Juniperus</i>
juniper, San Jose	<i>Juniperus</i>
juniper, Wiltoni	<i>Juniperus</i>
magnolia	<i>Magnolia</i>
maple, Japanese	<i>Acer</i>
maple, red	<i>Acer</i>
nandina	<i>Nandina</i>
oleander	<i>Nerium</i>
periwinkle	<i>Vinca</i>
photinia	<i>Photinia</i>
pine, white	<i>Pinus</i>
privet	<i>Ligustrum</i>
rhododendron	<i>Rhododendron</i>
rose	<i>Rosa</i>
viburnum	<i>Viburnum</i>
weigela	<i>Weigela</i>
willow	<i>Salix</i>
yew	<i>Taxus</i>

## HERBACEOUS &amp; FLOWERING PLANTS

15/26

<u>Common Name</u>	<u>Scientific Name</u>
African daisy	<i>Osteospermum</i>
ajuga	<i>Ajuga</i>
astilbe	<i>Astilbe</i>
baby blue eyes	<i>Nemophila</i>
baby's breath	<i>Gypsophila</i>
begonia	<i>Begonia</i>
bellflower	<i>Campanula</i>
black-eyed Susan	<i>Rudbeckia</i>
bleeding heart	<i>Dicentra</i>
blue bells	<i>Mertensia</i>
blue flax	<i>Lobelia</i>
California poppy	<i>Eschscholzia</i>
candytuft	<i>Iberis</i>
catchfly	<i>Silene</i>
chrysanthemum	<i>Chrysanthemum</i>
coleus	<i>Coleus</i>
columbine	<i>Aquilegia</i>
coneflower, purple	<i>Echinacea</i>
coreopsis	<i>Coreopsis</i>
corn poppy	<i>Papaver</i>
cosmos	<i>Cosmos</i>
creeping zinnia	<i>Sanvitalia</i>
daisy, shasta	<i>Chrysanthemum</i>
dames rocket	<i>Hesperis</i>
dwarf columbine	<i>Aquilegia</i>
dwarf cornflower	<i>Centaurea</i>
English wallflower	<i>Erysimum</i>
forget-me-not	<i>Myosotis</i>
forget-me-not	<i>Anchusa</i>
gaillardia	<i>Gaillardia</i>
garland chrysanthemum	<i>Chrysanthemum</i>
gazania	<i>Gazania</i>
geranium	<i>Pelargonium</i>
gilia	<i>Gilia</i>
hosta	<i>Hosta</i>
iris	<i>Iris</i>
leopards-bane	<i>Doronicum</i>
liatris	<i>Liatris</i>
lily, day	<i>Hemerocallis</i>
liriope	<i>Liriope</i>
maiden pinks	<i>Dianthus</i>
Missouri primrose	<i>Oenothera</i>
mountain phlox	<i>Phloxera</i>

## HERBACEOUS &amp; FLOWERING PLANTS (continued)

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<u>Common Name</u>	<u>Scientific Name</u>
peony	<i>Peony</i>
periwinkle, annual	<i>Vinca</i>
petunia	<i>Petunia</i>
pimpernel	<i>Anagallis</i>
prairie coneflower	<i>Ratibida</i>
red yarrow	<i>Achillea</i>
rocket larkspur	<i>Delphinium</i>
Rocky Mt. Penstemon	<i>Penstemon</i>
Roman chamomile	<i>Matricaria</i>
scarlet flax	<i>Linum</i>
Siberian wallflower	<i>Erysimum</i>
small burnet	<i>Sanguisorba</i>
snapdragon	<i>Antirrhinum</i>
snow-in-summer	<i>Cerastium</i>
soapwort	<i>Saponaria</i>
spurred snapdragon	<i>Antirrhinum</i>
starflower	<i>Trientalis</i>
statice, annual	<i>Statice</i>
sweet alyssum	<i>Lobularia</i>
sweet William	<i>Dianthus</i>
tall primrose	<i>Oenothera</i>
tall godetia	<i>Godetia</i>
tidy tips	<i>Layia</i>
white yarrow	<i>Achillea</i>
wild thyme	<i>Thymus</i>
zinnia	<i>Zinnia</i>

Applications of Acclaim 1EC Herbicide in the culture of the following ornamental plants will result in phytotoxicity:

<u>Common Name</u>	<u>Scientific Name</u>
juniper, Barharbor	<i>Juniperus</i>
philodendron	<i>Philodendron</i>
salvia	<i>Salvia</i>
podocarpus	<i>Podocarpus</i>
pittosporum	<i>Pittosporum</i>



**WEED SPECIES CONTROLLED**

Acclaim 1EC Herbicide will control the following annual grassy weeds:

<u>Common Name</u>	<u>Scientific Name</u>
smooth crabgrass	<i>Digitaria ischaemum</i>
hairy crabgrass	<i>Digitaria sanguinalis</i>
goosegrass, silver crabgrass	<i>Eleusine indica</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
foxtail species	<i>Setaria</i> spp.
panicum species	<i>Panicum</i> spp.
Johnsongrass (seedlings)	<i>Sorghum halepense</i>
sandbur	<i>Cenchrus incertus</i>
sprangletop	<i>Leptochloa</i> spp

**WEED SPECIES SUPPRESSED**

Acclaim 1EC Herbicide will temporarily suppress the growth of the following perennial grassy weeds:

<u>Common Name</u>	<u>Scientific Name</u>
common Bermudagrass	<i>Cynodon dactylon</i>
Johnsongrass (rhizome)	<i>Sorghum halepense</i>

Acclaim 1EC Herbicide will suppress the growth of common Bermudagrass and rhizome Johnsongrass. Apply Acclaim 1EC Herbicide at 23 ounces per acre (0.53 oz./1000 sq.ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim 1EC Herbicide every 28-35 days (never sooner than 14 days) to continue growth suppression of these species.

## APPLICATION INFORMATION

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Acclaim 1EC Herbicide controls only emerged grasses at the time of spraying. Young actively growing grassy weeds are more easily controlled than larger grassy weeds. Refer to the following Application Rate and Timing Recommendation Chart for dosages. Avoid applications to ornamentals under stress due to lack of moisture, chemical injury, or temperature extremes.

### **ACCLAIM 1EC HERBICIDE APPLICATION RATE AND TIMING RECOMMENDATION CHART**

Annual Grassy Weed Growth Stage	Fl. Oz./A	Fl. Oz./ 1,000 sq.ft.
untillered	15	0.34
1 to 2 tiller	23	0.53
3 to 4 tiller	32	0.73
4 to 5 tiller	45	1.02

#### Pressurized Hydraulic Sprayer Application

Apply Acclaim 1EC Herbicide by means of a pressurized hydraulic sprayer using 30-60 psi and 30-60 gallons of water per acre (0.7 to 1.4 gal. of finished spray per 1,000 sq.ft.). **Thorough spray coverage is essential for optimum results.** Flat fan nozzles are recommended.

#### High Volume Handgun Spray Application

If a low pressure (<30 psi), high volume (>60 gpa) handgun type sprayer is utilized, the addition of a surfactant at 32 ounces per 100 gallons is recommended. **Thorough coverage is essential for optimum results.**

#### Hand-Held Sprayer Application for Spot Treatments

For hand-held pump-type sprayers, add 0.34 - 0.53 fluid ounce of Acclaim 1EC Herbicide per gallon of water. Apply the lower rate when grassy weeds have less than two tillers. Spray target weeds thoroughly to the point of spray deposit runoff. **Optimum results occur when spray coverage is thorough.** The addition of a surfactant will improve coverage. A dye or colorant may be added to avoid spray pattern overlap.

### Repeat Application Information

Repeat applications of Acclaim 1EC Herbicide may be required under the following conditions (refer to Application Rate and Timing Recommendation Chart for dosages):

- (a) Continued grassy weed seed germination after the initial application
- (b) When dense populations of weeds prevent thorough spray coverage of the entire leaf surface of target weeds
- (c) For suppression of common Bermudagrass, repeat applications of Acclaim 1EC Herbicide may be necessary to retard new growth.
- (d) For suppression for rhizome Johnsongrass, apply Acclaim 1EC Herbicide when the Johnsongrass is 24-60 inches tall. For best results, do not apply within 3 weeks following a mowing. Mowing immediately after the application may reduce the effectiveness of the Acclaim 1EC Herbicide treatment.

Do not apply more than a total of 138 ounces per acre (3.16 oz./1000 sq.ft.) per growing season. Apply Acclaim 1EC Herbicide at 23 fluid ounces per acre (0.53 oz./1000 sq.ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim 1EC Herbicide every 28-35 days (never sooner than 14 days) to continue growth suppression of these species. Repeat Acclaim 1EC Herbicide applications should only be made to grassy weeds with vigorous growth. If stunting or injury occurred with the previous application, avoid applying until turfgrass recovery is complete (unless temporary stunting can be tolerated).

### NOTES FOR WEED CONTROL IN ORNAMENTALS

1. Stunting and/or chlorosis may occur on succulent, rapidly growing ornamentals. Symptoms are temporary and will subside.
2. Adequate soil moisture will enhance the performance of Acclaim 1EC Herbicide. Avoid application of Acclaim 1EC Herbicide under **DROUGHT STRESS** conditions. Thorough irrigation 1 to 2 days before or within 1 day after application will be helpful under these conditions. Rainfall or irrigation within 1 hour of application may cause a reduction in grass control. Allow spray deposit to dry before irrigation.
3. **DO NOT APPLY** this product through any type of irrigation system.

## DIRECTIONS FOR USE IN RIGHTS-OF-WAY

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Acclaim 1EC Herbicide can be applied to all cultivars of the following cool season grass species:

<u>Common Name</u>	<u>Scientific Name</u>
smooth brome	<i>Bromus inermis</i>
perennial ryegrass	<i>Lolium perenne</i>
fine fescue	<i>Festuca rubra</i> spp.
tall fescue	<i>Festuca arundinacea</i>
common Bermudagrass	<i>Cynodon dactylon</i>
wheatgrass	<i>Agropyron</i> spp.

Acclaim 1EC Herbicide can be applied alone postemergence to established wildflower species as a broadcast spray for control of grassy weeds in the following:

### WILDFLOWER SPECIES

<u>Common Name</u>	<u>Scientific Name</u>
African daisy	<i>Dimorphotheca</i>
annual Indian blanket	<i>Gaillardia</i>
baby blue eyes	<i>Nemophila</i>
baby's breath	<i>Gypsophila</i>
birds eyes	<i>Gilia</i>
black-eyed Susan	<i>Rudbeckia</i>
blue bells	<i>Mertensia</i>
blue flax	<i>Linum</i>
California poppy	<i>Eschscholzia</i>
catchfly	<i>Silene</i>
corn poppy	<i>Papaver</i>
cosmos	<i>Cosmos</i>
creeping zinnia	<i>Sanvitalia</i>
dames rocket	<i>Hesperis</i>
dwarf columbine	<i>Aquilegia</i>
dwarf cornflower	<i>Centaurea</i>
dwarf lance-leafed coreopsis	<i>Coreopsis</i>
English wallflower	<i>Cheiranthus</i>
forget-me-not	<i>Anchusa</i>
garland chrysanthemums	<i>Chrysanthemum</i>
gilia	<i>Gilia</i>
globe gilia	<i>Gilia</i>
Johnny jump up	<i>Viola</i>

## WILDFLOWER SPECIES (Continued)

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<u>Common Name</u>	<u>Scientific Name</u>
lemon mint	<i>Monarda</i>
maiden pinks	<i>Dianthus</i>
Missouri primrose	<i>Oenothera</i>
mountain phlox	<i>Phlox</i>
pimpernel	<i>Anagallis</i>
prairie coneflower	<i>Ratibida</i>
purple coneflower	<i>Echinacea</i>
red yarrow	<i>Achillea</i>
rocket larkspur	<i>Delphinium</i>
Rocky Mountain penstemon	<i>Penstemon</i>
Roman chamomile	<i>Matricaria</i>
scarlet flax	<i>Linum</i>
Siberian wallflower	<i>Erysimum</i>
small burnet	<i>Sanguisorba</i>
soapwort	<i>Saponaria</i>
spurred snapdragon	<i>Linaria</i>
starflower	<i>Trientalis</i>
sweet allyssum	<i>Lobularia</i>
sweet William	<i>Dianthus</i>
tall evening primrose	<i>Oenothera</i>
tall godetia	<i>Godetia</i>
tall plains coreopsis	<i>Coreopsis</i>
tidy tips	<i>Layia</i>
white yarrow	<i>Achillea</i>
wild thyme	<i>Thymus</i>

## ESTABLISHED DESIRABLE NATIVE GRASSES

<u>Common Name</u>	<u>Scientific Name</u>
big bluestem	<i>Andropogon</i>
blue grama	<i>Bouteloua</i>
little bluestem	<i>Andropogon</i>
sideoats grama	<i>Bouteloua</i>

Acclaim 1EC Herbicide will control the following grassy weeds:

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<u>Common Name</u>	<u>Scientific Name</u>
smooth crabgrass	<i>Digitaria ischaemum</i>
hairy crabgrass	<i>Digitaria sanguinalis</i>
goosegrass/silver crabgrass	<i>Eleusine indica</i>
barnyardgrass	<i>Echinochloa crus-galli</i>
foxtail species	<i>Setaria</i> spp.
panicum species	<i>Panicum</i> spp.
Johnsongrass	<i>Sorghum halepense</i>
wild oats	<i>Avena fatua</i>
roughstalk bluegrass	<i>Poa trivialis</i>
sandbur	<i>Cenchrus incertus</i>
shattercane	<i>Sorghum bicolor</i>

### APPLICATION INFORMATION

Acclaim 1EC Herbicide controls only emerged grasses at the time of spraying. Young, actively growing grassy weeds are more easily controlled than the larger grassy weeds. Refer to the following application rate and timing recommendation chart for dosages. Avoid applications to grass under drought stress.

ACCLAIM 1EC HERBICIDE USE RATES PER ACRE		
Grassy Weed Growth Stage	Fl. Oz./A	Pts./A
ANNUAL GRASSES		
1 Tiller	19	1.2
2 Tillers	24	1.5
4 Tillers	32	2.0
5 Tillers	45	2.8

ACCLAIM 1EC HERBICIDE USE RATES PER 100 GALLONS		
Grassy Weed Growth Stage	Fl. Oz./100 Gallons	Pts./Gallons
SEEDLING JOHNSONGRASS		
Up to 12 inches	19	1.2
12 - 24 inches	24	1.5
RHIZOME JOHNSONGRASS		
Up to 24 inches	32	2.0
24 - 60 inches	45	2.8
Repeat Applications		
Up to 12 inches	12	0.8
12 to 24 inches	32	2.0
24 to 60 inches	45	2.8

## SPRAY APPLICATION FOR SPOT TREATMENTS

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Add 48 fluid ounces of Acclaim 1EC Herbicide per 100 gallons of water and spray target weed thoroughly to the point of spray deposit runoff. Optimum results occur when spray pressure is sufficient to provide retention of spray deposit on target weed.

## DIRECTIONS FOR USE OF ACCLAIM 1EC HERBICIDE IN TANK MIXES

For improved turfgrass tolerance and improved annual grass and Johnsongrass control, a tank mix of Acclaim 1EC Herbicide and Fusilade<sup>13</sup> 2000 Herbicide may be applied on roadside rights-of-way. For best results, Acclaim 1EC Herbicide should be applied at 8 fluid ounces per acre and Fusilade 2000 Herbicide should be applied at 12 to 14 fluid ounces per acre. When utilizing this tank mix, the annual grasses should be 1 leaf to 2 tillers in size; the rhizome Johnsongrass should be 10-25 inches in size. Crop oil concentrate should be added to this tank mix at 1% v/v (1 qt./25 gal. of spray solution).

## SPRAY APPLICATION FOR HIGHWAY RIGHTS-OF-WAY

Apply with ground equipment using 30-100 gallons of water per acre and 30-60 psi to uniformly cover the vegetation in the area to be treated. Use a fixed boom, off-center nozzles or boomless straight stream nozzles properly calibrated to a constant speed of travel and rate of delivery. Allow mowed areas to regrow for at least 14 days before applying Acclaim 1EC Herbicide.

## REPEAT APPLICATION INFORMATION

Repeat applications of Acclaim 1EC Herbicide may be required under the following conditions (refer to application rate and timing recommendation chart for dosages):

- (a) Continued grassy weed seed germination after the initial application
- (b) When dense populations of weeds prevent thorough spray coverage of the entire leaf surface of the target weeds

Do not apply more than a total of 138 ounces per acre (3.16 oz./1000 sq.ft.) per growing season. Avoid applying a second application of Acclaim 1EC Herbicide sooner than 14 days after the first application. A second Acclaim 1EC Herbicide application should be made only to grassy weeds with vigorous regrowth.

## SURFACTANTS AND CROP OILS

The addition of a nonionic surfactant or paraffin-based crop oil at a rate of 32 ounces per 100 gallons of spray solution is recommended for spray volumes between 30 and 100 gallons per acre. Thorough spray coverage is extremely important for optimum results.

**NOTES FOR WEED CONTROL IN RIGHTS-OF-WAY**24/  
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1. Adequate soil moisture will enhance the performance of Acclaim 1EC Herbicide. Reduced control may occur with Acclaim 1EC Herbicide applied under DROUGHT STRESS conditions.
2. Rainfall within 1 hour following application may cause a reduction in grass control.
3. Broadleaf herbicides containing 2,4-D will reduce the effectiveness of Acclaim 1EC Herbicide. Tank mixes with Telaar<sup>2</sup>, Escort<sup>3</sup>, or Garlon<sup>4</sup> are recommended. Do not apply Acclaim 1EC Herbicide 5 days before a 2,4-D application or within 21 days following a 2,4-D application. **DO NOT TANK MIX** with any herbicides when applying Acclaim 1EC Herbicide to wildflower species.
4. Acclaim 1EC Herbicide is a selective grassy weed herbicide and has little or no activity on broadleaf plants or sedges.
5. Fescues and ryegrass may be overseeded immediately following Acclaim 1EC Herbicides applications. All other grass species should be overseeded after a 21-day waiting period.
6. Applications to Bermudagrass may result in temporary injury. Bermudagrass should be well established at the time of application or severe injury may result.



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