

FEB 15 1991

Mr. Victor A. Dorr
Hoechst Celanese Corporation
Route 202-205, P.O. Box 2500
Somerville, NJ 08876-1258

BEST AVAILABLE COPY

Dear Mr. Dorr:

Subject: Acclaim[®] IEC Herbicide
EPA Registration No. 8340-13
Application Dated January 9, 1991 To Amend Registration
with Revised Use Directions for Turfgrass, Ornamentals
and Rights-of-Ways; and Resubmissions Dated February
6 and 13, 1991

The proposed amendments reflected in the labeling submitted with the application and resubmissions have been reviewed and are acceptable for registration under Section 3 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended provided that you revise the proposed labeling to reflect the following comments:

1. Under "Direction for Use of Acclaim[®] in Tank Mixes" revise "Comment" section of all lists of products with which Acclaim IEC may be mixed by changing the heading to "Acclaim IEC" and under this heading add: "Refer to the Acclaim IEC Herbicide Application Rate and Timing Recommendation Chart".
2. Under "Hand-held Sprayer Application for Spot Treatments" you give a range of dosages (0.34 - 0.53 fluid ounces per gallon of water). You must instruct as to when to use the low dosage and when to use the high dosage for this use-pattern.
3. "Notes" on page 8 should be revised to read: "Notes for Weed Control in Turfgrasses".
4. On page 13 revise the statement "Application of Acclaim IEC herbicide on" to read "Applications of Acclaim IEC herbicide in the culture of the following ornamental plants will result in phytotoxicity or "Acclaim IEC herbicide is toxic to the following broadleaf plants:".

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5. On page 19 under "rhizome Johnsongrass, repeat applications", give instructions as to when to use the range of dosages: 12 - 45 and 0.8 - 2.8.
6. On page 20, revise the heading "Notes" to specify what the notes are related to; e.g. Notes for Weed Control in Rights-of-Ways. Revise the table "Acclaim Use Rates per Acre" with information as to when to use the range of dosages claimed.
7. Submit five (5) printed copies of the final printed labeling before releasing the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 69e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

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

Enclosure

E.Wilson: Diskette 0009: 02-14-91

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[Container Label - 3 Pages]

Revised February 11, 1991

ACCLAIM^(R) 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

SEE ADDITIONAL PRECAUTIONARY STATEMENTS AT BEGINNING OF LABEL.

Not for use in California and Hawaii.

EPA EST. NO. 34704-MS-1

EPA REG. NO. 8340-18

NET CONTENTS:

ACCEPTED
with COMMENTS
EPA Letter Dated:

FEB 15 1991

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

8340-18

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Hoechst Celanese

Hoechst Celanese Corporation
Route 202-206
PO Box 2500
Somerville NJ 08876-1258

Hoechst

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PRECAUTIONARY STATEMENTS

WARNING

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May cause substantial but temporary eye injury. Do not get in eyes. Wear goggles or face shield and impermeable rubber gloves (such as neoprene or PVC) while mixing. Harmful if swallowed, absorbed through skin or inhaled. Do not take internally. Avoid inhalation of vapor or spray mist. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water. Do not apply when weather conditions favor runoff or drift. Do not contaminate arable land/or water when disposing of equipment washwaters.

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 into the spray tank during the spray operation. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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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.

If possible bring this container and labeling to the attending physician. For emergency assistance call (201) 231-4125.

IMPORTANT NOTICE: DISCLAIMER

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using. If terms are not acceptable, return at once unopened. HOECHST CELANESE CORPORATION warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to HOECHST CELANESE CORPORATION and user assumes the risk of any such use. HOECHST CELANESE CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall HOECHST CELANESE CORPORATION be liable for consequential, special indirect or incidental damages resulting from the use or handling of this product. The foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of HOECHST CELANESE CORPORATION.

[Attached Use Directions - 22 Pages]

ACCLAIM^(R) 1EC HERBICIDE

IMPORTANT INSTRUCTIONS ENCLOSED

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

GENERAL INFORMATION

Acclaim 1EC Herbicide is an emulsifiable concentrate (EC) formulation containing one 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.

BEST AVAILABLE COPYDIRECTIONS FOR USE IN TURFGRASS SPECIES

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

<u>Common Name</u>	<u>Scientific Name</u>
Kentucky Bluegrass	(<u>Poa pratensis</u>)
Perennial Ryegrass	(<u>Lolium perenne</u>)
Fine Fescue	(<u>Festuca rubra</u>)
Tall Fescue	(<u>Festuca arundinaceae</u>)
Annual Bluegrass	(<u>Poa annua</u>)
Zoysiagrass	(<u>Zoysia spp.</u>)
Bentgrass *	(<u>Agrostis palustris</u>)

* Follow special Directions for Use on Bentgrass Turf.

WEED SPECIES CONTROLLED

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

<u>Common Name</u>	<u>Scientific Name</u>
Smooth Crabgrass	(<u>Digitaria ischaemum</u>)
Hairy Crabgrass	(<u>Digitaria sanguinalis</u>)
Goosegrass, Silver Crabgrass	(<u>Eleusine indica</u>)
Barnyardgrass	(<u>Echinochloa crus-galli</u>)
Foxtail Species	(<u>Setaria spp.</u>)
Panicum Species	(<u>Panicum spp.</u>)
Johnsongrass (seedling)	(<u>Sorghum halepense</u>)
Sprangletop	(<u>Leptochloa spp.</u>)

WEED SPECIES SUPPRESSED

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

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

Acclaim 1EC Herbicide will suppress the growth of common Bermudagrass and rhizome Johnsongrass. Apply Acclaim at 23 ounces/acre (0.53 ounces/1000 sq.ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim every 28-35 days to continue growth suppression of these species. Do not apply more than a total of 1.38 ounces per acre (3.16 ounces/1000 sq.ft.) per growing season.

APPLICATION INFORMATION

Acclaim IEC Herbicide is a systemic herbicide which only controls grasses which are emerged 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 IEC HERBICIDE APPLICATION RATE AND TIMING RECOMMENDATION CHART

Annual Grassy Weed Growth Stage	Fluid Oz/ Acre	Fluid Oz/ 1,000 ft. ²
1 leaf to 2 leaf*	4	0.09
Untillered**	10	0.23
Untillered	15	0.34
1 tiller to 2 tiller	23	0.53
3 tiller or greater Kentucky Bluegrass, Zoysiagrass	32	0.73
Tall Fescue, Fine Fescue, Perennial Ryegrass, Annual Bluegrass	45	1.02

*Apply this rate for use in multiple applications on Bentgrass turf.

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

Pressurized Hydraulic Sprayer Application

Apply Acclaim IEC Herbicide by means of a pressurized hydraulic sprayer using 30-60 PSI and 0.7 to 1.4 gallons of water per acre (0.7 to 1.4 gallons 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.

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Hand-Held Sprayer Application for Spot Treatments

For hand-held pump-type sprayers, add 0.34 - 0.53 fluid ounces 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.

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 ounces/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 OF ACCLAIM^R 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.

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Apply Acclaim IEC Herbicide at rates of 10 - 32 ounces/Acre or 0.23 - 0.73 ounces/1000 sq.ft. according to the application rate and timing recommendation chart when tank mixing with the following products:

	<u>Product/Acre</u>	<u>Ounces/1000 ft²</u>	<u>Comments</u>
benefin DF	3.3 - 5.0 pounds	1.35 - 1.85 ounces	Refer to the stage of growth chart to determine the proper Acclaim use rate. Also see note 2.
bensulide 4E	1.88 - 3.1 gallons	5.6 - 9.4 ounces	
Dacthal ¹ W75	6 - 20 pounds	2.2 - 7.0 ounces	
Pre-M ² 60 DG	2.5 - 5.0 pounds	0.9 - 1.8 ounces	
Tupersan ³ 50W	16 -24 pounds	6 - 9 ounces	
Crab-Spray ¹¹ 10%	15 -30 pounds	5.5 - 11.0 ounces	

B. Postemergence Broadleaf Herbicides

A tank mix application of Acclaim IEC 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 IEC Herbicide at rates of 10 - 45 ounces/Acre or 0.23 - 1.02 ounces/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/Acre</u>	<u>Ounces/1000 ft.²</u>	<u>Comments</u>
dicamba 4E	0.25-0.50 pint	0.09-0.18 ounces	Refer to the stage of growth chart to determine the proper Acclaim use rate. Also see note 2.
Confront ⁴	1-2 pints	0.37-0.73 ounces	
Turflon ⁴ Amine 3EC	1-4 pints	0.37-1.50 ounces	
Turflon ⁴ Ester 4EC	1-2 pints	0.37-0.73 ounces	
Breakthru ⁵	0.125-0.50 lbs. of total active ingredient per acre	0.25-1.00 ounces	

Always apply the following tank mixes of Acclaim IEC Herbicide with pendimethalin at 2.5 pounds/Acre or 0.9 ounces/1000 sq.ft. Apply before grassy weed tillering at a rate of 32 ounces/Acre or 0.73 ounces/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.

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	<u>Product/Acre</u>	<u>Ounces/1000 ft.²</u>	<u>Comments</u>
Lesco Three Way	3.3-4.0 pints	1.2-1.5 ounces	See Notes 2 and 4 when applying Acclaim with these products or similar products.
Super Trimec ⁶	2-3 pints	0.75-1.10 ounces	
Trimec ⁶ Turf Ester	2-3 pints	0.75-1.10 ounces	
Trimec ⁶ 992	2-3 pints	0.75-1.10 ounces	
Turflon ⁴ D	1-2 quarts	0.73-1.50 ounces	
Turflon ⁴ II Amine	1-2 quarts	0.73-1.50 ounces	
2,4-D amine 4	1.5-2.0 pints	0.60-0.73 ounces	

C. Insecticides

Acclaim IEC 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 IEC Herbicide at rates of 15 - 45 ounces/Acre or 0.34 - 1.02 ounces/1000 sq.ft. according to the application rate and timing recommendation chart when tank mixing with the following products:

	<u>Product/Acre</u>	<u>Ounces/1000 ft.²</u>	<u>Comments</u>
diazinon ⁴ 4EC		2-6 ounces	Refer to the stage of growth chart to determine the proper Acclaim use rate. Also see note 2.
Dursban ⁴ 4E	1-4 quarts	0.75-3.00 ounces	
Dursban ⁷ 50W	2-8 pounds	0.75-3.00 ounces	
Oftanol ⁸ 2	2-4 quarts	1.5-3.0 ounces	
Triumph ⁹		0.75-1.5 ounces	
Turcam		1-2 ounces	

D. Fungicides

A tank mix application of Acclaim IEC 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 IEC Herbicide at rates of 15- 45 ounces/Acre or 0.34 - 1.02 ounces/1000 sq.ft. according to the application rate and timing recommendation chart when tank mixing with the following products:

<u>Product/Acre</u>	<u>Ounces/1000 ft.²</u>	<u>Comments</u>
Banol ⁹ 6 ₇ F	1.30-4.00 ounces	
Bayleton ⁸ 25	1.00-2.00 ounces	
Chipco ¹⁰ 26019	1.00-2.00 ounces	
Chipco ¹⁰ 26019 FLO	3.00-4.00 ounces	Refer to the stage of growth chart to determine the proper Acclaim IEC Herbicide use rate.
Daconil ¹ 2787 F 4-24 pints	3.00-11.00 ounces	
Daconil ¹ 2787 W75 2.75-16 pounds	2.00-8.00 ounces	
Dyrene ¹² 4	4.00-8.00 ounces	
mancozeb ⁴ 80 WP	4.00-8.00 ounces	
Rubigan ⁴ AS	0.75-2.00 ounces	
Rubigan ⁸ WP	0.20-4.00 ounces	
Subdue ⁶ 2 E	1.00-2.00 ounces	
Teremec ³ SP	4.00-8.00 ounces	
Tersan 1991	1.00-2.00 ounces	

E. Liquid Fertilizers

Acclaim IEC Herbicide may be tank mixed with liquid nitrogen fertilizers (up to one pound/1000 sq.ft.) and iron chelates.

NOTES

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 one to two days before or within one day after application will be helpful under these conditions. Rainfall or irrigation within one hour of application may cause a reduction in grass control. Allow spray deposit to dry before irrigation.
3. Acclaim 1EC Herbicide may be applied at no more than 10 fl.oz./A on Kentucky bluegrass seedlings that have tillered and have been emerged for over one month. Temporary discoloration and stunting of bluegrass seedlings may occur at this timing. Seedlings will recover, however; and the final bluegrass stand will be improved due to reduced competition from the annual grassy weeds. 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 two months. When utilizing Acclaim 1EC Herbicide at rates higher than 10 fl.oz./A, Kentucky bluegrass seedlings must be at least three growing months old. 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 MCP may reduce the effectiveness of Acclaim 1EC Herbicide. Tank mixes with 2,4-D or MCP containing herbicides are most effective on untilled crabgrass. Avoid tank mixing Acclaim 1EC Herbicide with 2,4-D or MCP containing herbicides after crabgrass has tillered.
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 ON BENTGRASS TURF

Acclaim IEC 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 IEC Herbicide is applied. DO NOT apply to bentgrass putting greens.

To control crabgrass in bentgrass turf, apply 0.09 fluid ounces, 1000 sq. ft. (4 fl.oz./A). The Acclaim IEC 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 may alleviate injury symptoms to bentgrass turf. DO NOT tank mix Acclaim IEC 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 IN ORNAMENTALS

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 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	(<u>Rhododenron</u>)
Barberry	(<u>Berberis</u>)
Boxwood, Korean	(<u>Buxus</u>)
Cotoneaster	(<u>Cotoneaster</u>)
Dogwood, flowering	(<u>Cornus</u>)
English Ivy	(<u>Hedera</u>)
Euonymus	(<u>Euonymus</u>)
False Cypress	(<u>Chamaecyparis</u>)
Firethorn	(<u>Pyracantha</u>)
Forsythia	(<u>Forsythia</u>)
Hawthorn	(<u>Crataegus</u>)
Holly, American	(<u>Ilex</u>)
Holly, Japanese	(<u>Ilex</u>)
Holly, meservae	(<u>Ilex</u>)
Hydrangea	(<u>Hydrangea</u>)
Juniper, Blue Rug	(<u>Juniperus</u>)
Juniper, Dwarf Shore	(<u>Juniperus</u>)
Juniper, Parsonii	(<u>Juniperus</u>)
Juniper, San Jose	(<u>Juniperus</u>)
Juniper, Wiltoni	(<u>Juniperus</u>)
Magnolia	(<u>Magnolia</u>)
Maple, Japanese	(<u>Acer</u>)
Maple, Red	(<u>Acer</u>)
Nandina	(<u>Nandina</u>)
Oleander	(<u>Nerium</u>)
Periwinkle	(<u>Vinca</u>)
Photinia	(<u>Photinia</u>)
Pine, White	(<u>Pinus</u>)
Privet	(<u>Ligustrum</u>)
Rhododendron	(<u>Rhododendron</u>)
Rose	(<u>Rosa</u>)
Virburnum	(<u>Virburnum</u>)
Weigela	(<u>Weigela</u>)
Willow	(<u>Salix</u>)
Yew	(<u>Taxus</u>)

HERBACEOUS & FLOWERING PLANTS

<u>Common Name</u>	<u>Scientific Name</u>
African Daisy	<u>(Osteospermum)</u>
Ajuga	<u>(Ajuga)</u>
Astilbe	<u>(Astilbe)</u>
Baby Blue Eyes	<u>(Nemophila)</u>
Baby's Breath	<u>(Gypsophila)</u>
Begonia	<u>(Begonia)</u>
Bellflower	<u>(Campanula)</u>
Black-Eyed Susan	<u>(Rudbeckia)</u>
Bleeding Heart	<u>(Dicentra)</u>
Blue Bells	<u>(Mertensia)</u>
Blue Flax	<u>(Lobelia)</u>
California Poppy	<u>(Eschscholzia)</u>
Candytuft	<u>(Iberis)</u>
Catchfly	<u>(Silene)</u>
Chrysanthemum	<u>(Chrysanthemum)</u>
Coleus	<u>(Coleus)</u>
Columbine	<u>(Aquilegia)</u>
Coneflower, Purple	<u>(Echinacea)</u>
Coreopsis	<u>(Coreopsis)</u>
Corn Poppy	<u>(Papaver)</u>
Cosmos	<u>(Cosmos)</u>
Creeping Zinnia	<u>(Sanvitalia)</u>
Daisy, Shasta	<u>(Chrysanthemum)</u>
Dames Rocket	<u>(Hesperis)</u>
Dwarf Columbine	<u>(Aquilegia)</u>
Dwarf Cornflower	<u>(Centaurea)</u>
English Wallflower	<u>(Erysimum)</u>
Forget-Me-Not	<u>(Myosotis)</u>
Forget-Me-Not	<u>(Anchusa)</u>
Gaillardia	<u>(Gaillardia)</u>
Garland Chrysanthemum	<u>(Chrysanthemum)</u>
Gazania	<u>(Gazania)</u>
Geranium	<u>(Pelargonium)</u>
Gilia	<u>(Gilia)</u>
Hosta	<u>(Hosta)</u>
Iris	<u>(Iris)</u>
Leopards-Bane	<u>(Doronicum)</u>

Common NameScientific

Liatrus
Lily, day
Liriope
Maiden Pinks
Missouri Primrose
Mountain Phlox
Peony
Periwinkle, annual
Petunia
Pimpernel
Prairie Coneflower
Red Yarrow
Rocket Larkspur
Rocky Mt. Penstemon
Roman Chamomile
Scarlet Flax
Siberian Wallflower
Small Burnet
Snapdragon
Snow-in-Summer
Soapwort
Spurred Snapdragon
Starflower
Statice, Annual
Sweet Alyssum
Sweet William
Tall Primrose
Tall Godetia
Tidy Tips
White Yarrow
Wild Thyme
Zinnia

(Liatrus)
(Hemeroc)
(Liriope)
(Dianthu)
(Oenothe)
(Phloxhe)
(Peony)
(Vinca)
(Petunia)
(Anagail)
(Ratibid)
(Achille)
(Delphir)
(Pensten)
(Matrica)
(Linum)
(Erysimu)
(Sanguis)
(Antirrh)
(Cerasti)
(Saponar)
(Antirrh)
(Trienta)
(Statice)
(Lobular)
(Dianthu)
(Oenothe)
(Godetia)
(Layia)
(Achille)
(Thymus)
(Zinnia)

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Applications of Acclaim IEC Herbicide on the following ornamental plants will result in phytotoxicity:

<u>Common Name</u>	<u>Scientific Name</u>
Juniper, Barharbor	(<u>Juniperus</u>)
Philodendron	(<u>Philodendron</u>)
Salvia	(<u>Salvia</u>)
Podocarpus	(<u>Podocarpus</u>)
Pittosporium	(<u>Pittosporium</u>)

WEED SPECIES CONTROLLED

Acclaim IEC Herbicide will control the following annual grassy weeds:

<u>Common Name</u>	<u>Scientific Name</u>
Smooth Crabgrass	(<u>Digitaria ischaemum</u>)
Hairy Crabgrass	(<u>Digitaria sanguinalis</u>)
Goosegrass, Silver Crabgrass	(<u>Eleusine indica</u>)
Barnyardgrass	(<u>Echinochloa crus-galli</u>)
Foxtail Species	(<u>Setaria</u> spp.)
Panicum Species	(<u>Panicum</u> spp.)
Johnsongrass (seedlings)	(<u>Sorghum halepense</u>)
Sprangletop	(<u>Leptochloa</u> spp.)

WEED SPECIES SUPPRESSED

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

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

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

APPLICATION INFORMATION

Acclaim IEC Herbicide only controls grasses which are emerged 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 IEC HERBICIDE APPLICATION RATE
AND TIMING RECOMMENDATION CHART**

Annual Grassy Weed Growth Stage	Fluid Oz/ Acre	Fluid Oz/ 1,000 ft. ²
Untillered	15	0.34
1 tiller to 2 tiller	23	0.53
3 tiller to 4 tiller	32	0.73
4 tiller to 5 tiller	45	1.02

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Pressurized Hydraulic Sprayer Application

Apply Acclaim IEC 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 gallons 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 ounces of Acclaim IEC 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 IEC 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 IEC Herbicide may be necessary to retard new growth.
- (d) For suppression for rhizome Johnsongrass, apply Acclaim IEC Herbicide when the Johnsongrass is 24-60" 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 IEC Herbicide treatment.

Do not apply more than a total of 138 ounces per acre (3.16 ounces/1000 sq.ft.) per growing season. Apply Acclaim IEC Herbicide at 23 fl.oz./acre (0.53 oz./1000 sq.ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim IEC Herbicide every 28-35 days (never sooner than 14 days) to continue growth suppression of these species. Repeat Acclaim IEC 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

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 one to two days before or within one day after application will be helpful under these conditions. Rainfall or irrigation within one 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

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	(<u>Bromus inermis</u>)
Perennial Ryegrass	(<u>Lolium perenne</u>)
Fine Fescue	(<u>Festuca rubra</u> spp.)
Tall Fescue	(<u>Festuca arundinaceae</u>)
Common Bermudagrass	(<u>Cynodon dactylon</u>)
Wheatgrass	(<u>Agropyron</u> spp.)

Acclaim IEC 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	(<u>Dimorphotheca</u>)
Annual Indian Blanket	(<u>Gaillardia</u>)
Baby Blue Eyes	(<u>Nemophila</u>)
Baby's Breath	(<u>Gypsophila</u>)
Birds Eyes	(<u>Gilia</u>)
Black-Eyed Susan	(<u>Rudbeckia</u>)
Blue Bells	(<u>Mertensia</u>)
Blue Flax	(<u>Linum</u>)
California Poppy	(<u>Eschscholzia</u>)
Catchfly	(<u>Silene</u>)
Corn Poppy	(<u>Papaver</u>)
Cosmos	(<u>Cosmos</u>)
Creeping Zinnia	(<u>Sanvitalia</u>)
Dames Rocket	(<u>Hesperis</u>)
Dwarf Columbine	(<u>Aquilegia</u>)
Dwarf Cornflower	(<u>Centaurea</u>)
Dwarf Lance Leafed Coreopsis	(<u>Coreopsis</u>)
English Wallflower	(<u>Cheiranthus</u>)
Forget-Me-Not	(<u>Anchusa</u>)
Garland Chrysanthemums	(<u>Chrysanthemum</u>)
Gilia	(<u>Gilia</u>)
Globe Gilia	(<u>Gilia</u>)
Johnny Jump Up	(<u>Viola</u>)
Lemon Mint	(<u>Monarda</u>)
Maiden Pinks	(<u>Dianthus</u>)
Missouri Primrose	(<u>Oenothera</u>)
Mountain Phlox	(<u>Phlox</u>)
Pimpernel	(<u>Anagallis</u>)
Prairie Coneflower	(<u>Ratibida</u>)
Purple Coneflower	(<u>Echinacea</u>)
Red Yarrow	(<u>Achillea</u>)
Rocket Larkspur	(<u>Delphinium</u>)
Rocky Mountain Penstemon	(<u>Penstemon</u>)
Roman Chamomile	(<u>Matricaria</u>)
Scarlet Flax	(<u>Linum</u>)
Siberian Wallflower	(<u>Erysimum</u>)
Small Burnet	(<u>Sanguisorba</u>)
Soapwort	(<u>Saponaria</u>)
Spurred Snapdragon	(<u>Linaria</u>)
Starflower	(<u>Trientalis</u>)
Sweet Allyssum	(<u>Lobularia</u>)
Sweet Williams	(<u>Dianthus</u>)
Tall Evening Primrose	(<u>Oenothera</u>)
Tall Godetia	(<u>Godetia</u>)
Tall Plains Coreopsis	(<u>Coreopsis</u>)
Tidy Tips	(<u>Layia</u>)
White Yarrow	(<u>Achillea</u>)
Wild Thyme	(<u>Thymus</u>)

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ESTABLISHED DESIRABLE NATIVE GRASSES

<u>Common Name</u>	<u>Scientific Name</u>
Big Bluestem	(<u>Andropogon</u>)
Blue Grama	(<u>Bouteloua</u>)
Little Bluestem	(<u>Andropogon</u>)
Sideoats Grama	(<u>Bouteloua</u>)

Acclaim 1EC Herbicide will control the following grassy weeds:

<u>Common Name</u>	<u>Scientific Name</u>
Smooth Crabgrass	(<u>Digitaria ischaemum</u>)
Hairy Crabgrass	(<u>Digitaria sanguinalis</u>)
Goosegrass/Silver Crabgrass	(<u>Eleusine indica</u>)
Barnyardgrass	(<u>Echinochloa crus-galli</u>)
Foxtail Species	(<u>Setaria</u> spp.)
Panicum Species	(<u>Panicum</u> spp.)
Johnsongrass	(<u>Sorghum halepense</u>)
Wild Oats	(<u>Avena fatua</u>)
Roughstalk Bluegrass	(<u>Poa trivialis</u>)

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APPLICATION INFORMATION

Acclaim 1EC Herbicide only controls grasses that have emerged 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 USE RATES PER ACRE		
Grassy Weed Growth Stage	Fluid Ounces Per Acre	Pints Per Acre
ANNUAL GRASSES		
1 Tiller	19	1.2
2 Tillers	24	1.5
4 Tillers	32	2.0
5 Tillers	45	2.8
Grassy Weed Growth Stage	Fluid Ounces Per 100 Gallons	Pints Per 100 Gallons
SEEDLING JOHNSONGRASS		
Up to 12"	19	1.2
12-24"	24	1.5
RHIZOME JOHNSONGRASS		
Up to 24"	32	2.0
24-60 Inches	45	2.8
Repeat Applications	12-45	0.8-2.8

SPRAY APPLICATION FOR SPOT TREATMENTS

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 LEC HERBICIDE IN TANK MIXES

For improved turfgrass tolerance and improved annual grass and Johnsongrass control, a tank mix of Acclaim LEC Herbicide and Fusilade¹³ 2000 Herbicide may be applied on roadside rights-of-way. For best results, Acclaim LEC Herbicide should be applied at 8 fl.oz. per acre and Fusilade 2000 Herbicide should be applied at 12 to 14 fl.oz. 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" in size. Crop oil concentrate should be added to this tank mix at 1% v/v (1 quart per 25 gallons 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 of water 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 LEC Herbicide.

REPEAT APPLICATION INFORMATION

Repeat applications of Acclaim LEC 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 ounces/1000 sq.ft.) per growing season. Avoid applying a second application of Acclaim LEC Herbicide sooner than 14 days after the first application. A second Acclaim LEC Herbicide application should only be made to grassy weeds with vigorous regrowth.

SURFACTANTS AND CROP OILS

The addition of a non-ionic 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

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 one 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 Telar³, Escort³, or Garlon⁴ are recommended. Broadleaf herbicides containing 2,4-D may be applied 5 days before or after a Acclaim 1EC Herbicide 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.

Trademark Information

- 1 Registered trademark of EDS Biotech Corporation
 - 2 Registered trademark of Lesco, Inc.
 - 3 Registered trademark of E.I. duPont de Nemours & Company
 - 4 Registered trademark of DowElanco
 - 5 Registered trademark of The Andersons
 - 6 Registered trademark of PBI/Gordon Corporation
 - 7 Registered trademark of the Parent Company of Farkenfabriken Bayer GmbH, Leverkusen
 - 8 Registered trademark of Ciba-Geigy Corporation
 - 9 Registered trademark of Nor-Am Chemical Company
 - 10 Registered trademark of Rhone-Poulenc Incorporated
 - 11 Registered trademark of Spring Valley Turf Products
 - 12 Registered trademark of Mobay Corporation
 - 13 Registered trademark of ICI Americas, Inc.
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