

PM 23 45639-167

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO. 100-1	DATE OF ISSUANCE 2/22/74
	TERM OF ISSUANCE Indefinite - Expires April 15, 1980	
	NAME OF PESTICIDE PRODUCT Diazinon	

NOTICE OF PESTICIDE: REGISTRATION
 REREГИSTRATION
 (Under the Federal Insecticide, Fungicide,
 and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

[Faint address text]
 [Faint address text]
 [Faint address text]
 [Faint address text]

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Under section 3(c)(7)(A) provided that you:

1. use the name "Diazinon" on the label of the product.
2. use the name "Diazinon" on the label of the product.
3. submit five (5) copies of the final product labeling which you intend to use for shipment.
4. submit descriptive/subsorption/desorption data, EPA registration no. 100-1, to support the continued use of diazinon as an agricultural pesticide.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with paragraph 3(c). Your failure to ship the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

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100-1

[Faint text]
 [Faint text]
 [Faint text]

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Deanne S. Miller</i>	DATE 2/22/74
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A company of Hoechst and NOR-AM

Acclaim[®]

Extra

HERBICIDE

ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP 22 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
45639-167

**For Selective Postemergence Annual and Perennial Grass Control in:
Turfgrass Including Sod Farms, Commercial and Residential Turf,
Ornamentals, and Rights-of-Way**

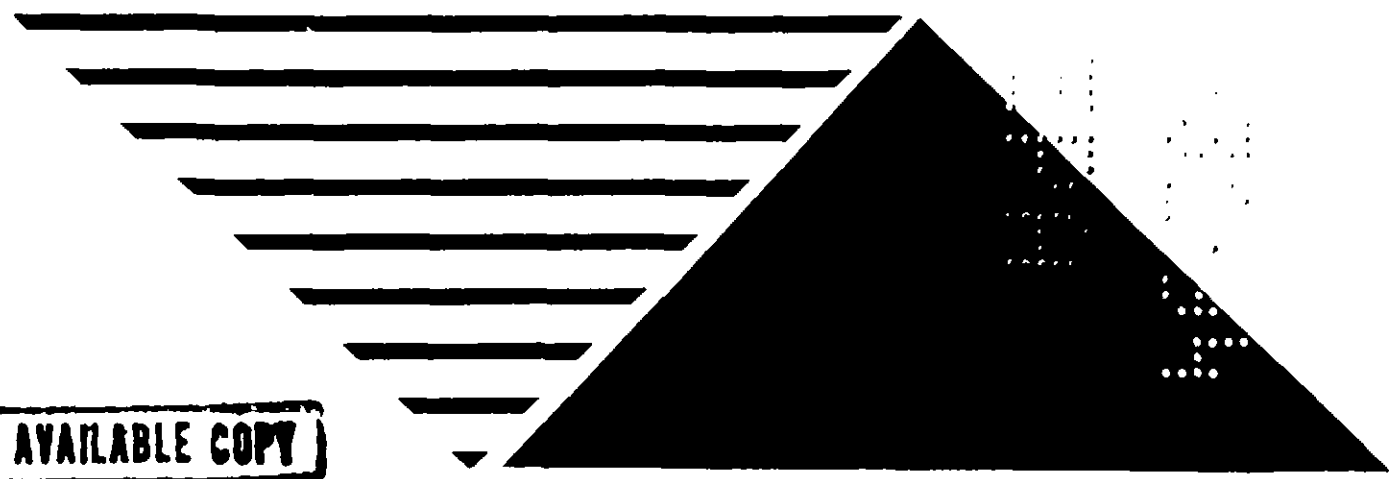
EPA Reg. No. 45639-
EPA Est. No. 8340-CN-01

**KEEP OUT OF REACH
OF CHILDREN
CAUTION**

ACTIVE INGREDIENT	
fenoxaprop-p-ethyl: (+)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl) oxy] phenoxy] propanoate*	6.59%
INERT INGREDIENTS:**	93.41%
TOTAL	100.00%

SEE ADDITIONAL PRECAUTIONARY STATEMENTS AT
THE BEGINNING OF THE LABEL.
NET CONTENTS: [Various Sizes]

*Equivalent to 0.57 pound of pure fenoxaprop-p-ethyl
(d isomer) per gallon
**Contains petroleum distillates



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PRECAUTIONARY STATEMENTS **CAUTION**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes or clothing.

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; shoes plus socks

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. For terrestrial uses, 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 apply when weather conditions favor runoff or drift. Do not contaminate arable land and/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.

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 by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

**FOR MEDICAL OR ENVIRONMENTAL EMERGENCY, CALL
1-800-228-5635, EXT. 132.**

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GENERAL INFORMATION

ACCLAIM® EXTRA Herbicide is a water emulsion formulation containing 0.57 pound of active ingredient per gallon. ACCLAIM EXTRA Herbicide is used for postemergence control of annual and perennial grassy weeds in established turfgrass and ornamental species. ACCLAIM EXTRA Herbicide does not control broadleaf weeds or sedges.

ACCLAIM EXTRA Herbicide is absorbed through the foliage. Thorough coverage is important. Visual injury of the grassy weeds 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 apply until you have read the entire label. 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 and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The uses on commercial and residential turf, ornamentals and rights-of-way are not within the scope of the WPS.

DIRECTIONS FOR USE IN TURFGRASS SPECIES

ACCLAIM EXTRA Herbicide can be applied as a broadcast application to all cultivars of the following turfgrass species:

Common Name	Scientific Name
Kentucky bluegrass	<i>Poa pratensis</i>
Perennial ryegrass	<i>Lolium perenne</i>
Fine fescue	<i>Festuca rubra</i>
Fall fescue	<i>Festuca arundinaceae</i>
Annual bluegrass	<i>Poa annua</i>
Zoysagrass	<i>Zoysia</i> spp.
Creeping bentgrass*	<i>Agrostis palustris</i>

*Follow special Directions for Use on Bentgrass Turf.

WEED SPECIES CONTROLLED

ACCLAIM EXTRA Herbicide will control the following annual grassy weeds:

Common Name	Scientific Name
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 (seedling)	<i>Sorghum halepense</i>
Sandbur	<i>Cenchrus incertus</i>
Sprangletop	<i>Leptochloa</i> spp.

WEED SPECIES SUPPRESSED

ACCLAIM EXTRA Herbicide will temporarily suppress the growth of the following perennial grassy weeds:

Common Name	Scientific Name
Common bermudagrass	<i>Cynodon dactylon</i>
Johnsongrass (rhizome)	<i>Sorghum halepense</i>

ACCLAIM EXTRA Herbicide will suppress the growth of common Bermudagrass and rhizome Johnsongrass. Apply ACCLAIM EXTRA Herbicide at 20 fluid ounces per acre (0.46 fluid ounce/1000 sq. ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of ACCLAIM EXTRA Herbicide every 28–35 days to continue growth suppression of these species. Do not apply more than a total of 121 fluid ounces per acre (2.78 fluid ounces/1000 sq.ft.) per growing season.

APPLICATION INFORMATION

ACCLAIM EXTRA Herbicide is a systemic herbicide which controls only grasses which are emerged at the time of spraying. Young, actively growing grassy weeds are more easily controlled than larger grassy weeds. Thorough coverage will provide 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 EXTRA HERBICIDE APPLICATION RATE AND TIMING RECOMMENDATION CHART

Annual Grassy Weed Growth Stage	Fluid oz/acre	Fluid oz/1,000 sq. ft.
1–2 leaf*	3.5	0.08
Untilled**	9	0.21
Untilled	13	0.30
1–2 tiller	20	0.46
3 tiller or greater Kentucky bluegrass, Zoysiagrass	28	0.64
Tall fescue, fine fescue, perennial ryegrass, annual bluegrass	39	0.90

*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 EXTRA Herbicide by means of a pressurized hydraulic sprayer using 30–50 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 fluid 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 0.30–0.46 fluid ounce of ACCLAIM EXTRA Herbicide per gallon of water. Apply 0.30 fluid ounce per gallon of water when the grassy weed is in the 1–4 leaf stage of growth. Apply 0.46 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 EXTRA Herbicide is reduced when grass clippings interfere with thorough spray coverage of the target weeds.

REPEAT APPLICATION INFORMATION

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

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

Do not apply more than a total of 121 fluid ounces per acre (2.78 fluid ounces/1000 sq.ft.) per growing season. Avoid applying repeat applications of ACCLAIM EXTRA Herbicide sooner than 14 days after the previous application. Repeat ACCLAIM EXTRA Herbicide applications should be made only 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 EXTRA HERBICIDE IN TANK-MIXES

A. Pre-emergence Residual Herbicides

A tank-mix application of ACCLAIM EXTRA 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 EXTRA Herbicide at rates of 9.0–28 fluid ounces/acre or 0.21–0.64 fluid ounce/1000 sq.ft. according to the application rate and timing recommendation chart when tank-mixing with the following products: Barricade¹⁵ 65DG, bensulide 4E, Dacthal¹ W75, Dimension¹⁴, pendimethalin 60DG, Tupersan¹ 50W and Crab-Spray¹¹ 10%.

B. Postemergence Broadleaf Herbicides

A tank-mix application of ACCLAIM EXTRA 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 EXTRA Herbicide at rates of 9.0–39 fluid ounces/acre or 0.21–0.90 fluid ounce/1000 sq.ft. according to the application rate and timing recommendation chart when tank-mixing with the following products: dicamba 4E, Confront⁴, Turtlon⁴, Amine 4EC and Turtlon⁴ Ester 4EC.

Apply the 9 ounce rate only when tank-mixing with pre-emergence products.

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Always apply the following tank-mixes of ACCLAIM EXTRA Herbicide with pendimethalin at 2.5 pounds/acre or 0.9 fluid ounce/1000 sq.ft. Apply before grassy weeds tiller at a rate of 28 fluid ounces/acre or 0.64 fluid ounce/1000 sq. ft. when mixing with the following products: Lesco Three Way, Super Trimec⁴, Trimec⁴ Turf Ester, Trimec⁶ 992, Turflon⁴ D, Turflon⁴ II Amine and 2,4-D amine 4.

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 recommended.

C. Insecticides

ACCLAIM EXTRA 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 EXTRA Herbicide at rates of 13.0–39 fluid ounces/acre or 0.30–0.90 fluid ounce/1000 sq.ft. according to the application rate and timing recommendation chart when tank-mixing with the following products: Diazinon 4EC, Dursban⁴ 4E, Dursban⁴ 50W, Oftanol⁷ 2, Triumph⁸ and Turcam⁹.

D. Fungicides

A tank-mix application of ACCLAIM EXTRA 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 EXTRA Herbicide at rates of 13–39 fluid ounces/acre or 0.30–0.90 fluid ounce/1000 sq.ft. according to the application rate and timing recommendation chart when tank-mixing with the following products: Banner¹, Banol³ 6F, Bayleton⁷ 25, Chipco¹⁰ 26019, Chipco¹⁰ 26019 FLO, Daconil¹ 2787F, Daconil¹ 2787 W75, Dyrene¹² 4, Lesco Twosome², Mancozeb 80 WP, Rubigan⁴ AS, Rubigan⁴ WP, Subdue³ 2E, Teremec⁶ SP and Tersan¹ 1991.

E. Liquid Fertilizers

ACCLAIM EXTRA Herbicide may be tank-mixed with liquid nitrogen fertilizers (up to 1 lb N/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 EXTRA Herbicide. Avoid application of ACCLAIM EXTRA 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 EXTRA Herbicide may be applied at no more than 9.0 fluid ounces/acre 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 EXTRA Herbicide

to previously treated seedling Kentucky bluegrass for at least two months. When utilizing ACCLAIM EXTRA Herbicide at rates higher than 9.0 fluid ounces/acre, Kentucky bluegrass seedlings must be at least three growing months old. DO NOT apply ACCLAIM EXTRA 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 EXTRA Herbicide. Tank-mixes with 2,4-D or MCP containing herbicides are most effective on untilled crabgrass. Do not apply ACCLAIM EXTRA Herbicide within 21 days following a 2,4-D or MCP application, or 5 days before a 2,4-D or MCP application.
5. ACCLAIM EXTRA Herbicide is a selective grassy weed herbicide and has little or no activity on broadleaf plants and sedges.
6. ACCLAIM EXTRA Herbicide may be applied to newly plugged zoysiagrass. Fescues and ryegrass may be overseeded immediately following ACCLAIM EXTRA 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 EXTRA Herbicide to sod within 4 weeks before cutting for transplanting or within 4 weeks after transplanting.

DIRECTIONS FOR USE ON BENTGRASS TURF

ACCLAIM EXTRA 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 EXTRA Herbicide is applied. **DO NOT APPLY TO BENTGRASS PUTTING GREENS.**

To control crabgrass and goosegrass in bentgrass turf, apply 0.03 fluid ounce/1000 sq. ft. (3.5 fl. oz./A). The ACCLAIM EXTRA 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. Spray volumes of 100 gallons per acre (2.30 gal/1000 ft²) are suggested for improved bentgrass turf tolerance. DO NOT tank-mix ACCLAIM EXTRA 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.

DIRECTIONS FOR USE IN ORNAMENTALS

ACCLAIM EXTRA 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.

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ACCLAIM EXTRA Herbicide may be applied as a broadcast spray in the following plantings:

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Common Name	Scientific Name
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 & FLOWERING PLANTS

Common Name	Scientific Name
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 comitlower	<i>Centaurea</i>
English wallflower	<i>Erysimum</i>
Forget me not	<i>Myosotis</i>
Forget me not	<i>Anchusa</i>

HERBACEOUS & FLOWERING PLANTS (continued)

Common Name	Scientific Name
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>
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 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>
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 EXTRA Herbicide in the culture of the following ornamental plants will result in phytotoxicity:

Common Name	Scientific Name
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 EXTRA Herbicide will control the following annual grassy weeds:

Common Name	Scientific Name
Smooth crabgrass	<i>Digitaria ischaemum</i>
Hairy crabgrass	<i>Digitaria sanguinalis</i>
Goosegrass, silver crabgrass	<i>Fleusine indica</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Foxtail species	<i>Setaria spp.</i>
Panicum species	<i>Panicum spp.</i>
Johnsongrass (seedlings)	<i>Sorghum halepense</i>
Sandbur	<i>Cenchrus incertus</i>
Sprangletop	<i>Leptochloa spp.</i>

WEED SPECIES SUPPRESSED

ACCLAIM EXTRA Herbicide will temporarily suppress the growth of the following perennial grassy weeds:

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

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ACCLAIM EXTRA Herbicide will suppress the growth of common Bermudagrass and rhizome Johnsongrass. Apply ACCLAIM EXTRA Herbicide at 20 fluid ounces/acre (0.46 fl. oz/1000 sq. ft.) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of ACCLAIM EXTRA Herbicide every 28-35 days (never sooner than 14 days) to continue growth suppression of these species.

APPLICATION INFORMATION

ACCLAIM EXTRA 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 EXTRA HERBICIDE APPLICATION RATE AND TIMING RECOMMENDATION CHART

Annual Grassy Weed Growth Stage	Fl. oz/A	Fl. oz/1,000 ft ²
Untilled	13	0.30
1-2 tiller	20	0.46
3-4 tiller	28	0.64
4-5 tiller	39	0.90

Pressurized Hydraulic Sprayer Application

Apply ACCLAIM EXTRA 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 fluid 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 0.30-0.46 fluid ounce of ACCLAIM EXTRA 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 EXTRA Herbicide may be required under the following conditions (refer to the 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 EXTRA Herbicide may be necessary to retard new growth.
- (d) For suppression of rhizome Johnsongrass, apply ACCLAIM EXTRA 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 EXTRA Herbicide treatment.

Do not apply more than a total of 124 fluid ounces per acre (12.78 fl. oz/1000 ft²) per growing season. Apply ACCLAIM EXTRA Herbicide at 20 fluid ounces/acre (0.46 fl. oz/1000 ft²) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of ACCLAIM EXTRA Herbicide every 28-35 days (never sooner than 14 days) to continue growth suppression of these species. Repeat ACCLAIM EXTRA Herbicide

applications should be made only 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 EXTRA Herbicide. Avoid application of ACCLAIM EXTRA 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 EXTRA Herbicide can be applied to all cultivars of the following cool season grass species:

Common Name	Scientific Name
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 EXTRA Herbicide can be applied alone postemergence to established wildflower species as a broadcast spray for control of grassy weeds in the following:

WILDFLOWER SPECIES

Common Name	Scientific Name
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>Fschscholzia</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 leaved 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>
Lemon mint	<i>Monarda</i>
Marden 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>Malticaria</i>
Scarlet flax	<i>Linum</i>

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WILDFLOWER SPECIES Continued

Common Name	Scientific Name
Siberian wallflower	<i>Erysimum</i>
Small burnet	<i>Sanguisorba</i>
Soapwort	<i>Saponaria</i>
Spurred snapdragon	<i>Linaria</i>
Starflower	<i>Trientalis</i>
Sweet alyssum	<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

Common Name	Scientific Name
Big bluestem	<i>Andropogon</i>
Blue grama	<i>Bouteloua</i>
Little bluestem	<i>Andropogon</i>
Sideoats grama	<i>Bouteloua</i>

ACCLAIM EXTRA Herbicide will control the following grassy weeds:

Common Name	Scientific Name
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 EXTRA Herbicide controls only 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 EXTRA Herbicide Use Rates Per Acre

Grassy Weed Growth Stage	Fl. oz/A	Pt/A
Annual Grasses		
1 tiller	16	1.09
2 tiller	20	1.25
4 tiller	28	1.75
5 tiller	39	2.44

Grassy Weed Growth Stage	Fl. oz/100 gal	Pt/100 gal
Seedling Johnsongrass		
Up to 12"	16	1.00
12-24"	20	1.25
Rhizome Johnsongrass		
Up to 24"	28	1.75
24-60"	39	2.44
Repeat Applications		
Up to 12"	11	0.69
12-24"	24	1.50
24-60"	39	2.44

Spray Application for 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 EXTRA Herbicide.

Spray Application for Spot Treatments

Add 40 fluid ounces of ACCLAIM EXTRA 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 EXTRA HERBICIDE IN TANK-MIXES

For improved turfgrass tolerance and improved annual grass and Johnsongrass control, a tank-mix of ACCLAIM EXTRA Herbicide and Fusilade[®] 2000 Herbicide may be applied on roadside rights-of-way. For best results, ACCLAIM EXTRA Herbicide should be applied at 7 fluid ounces/acre and Fusilade 2000 Herbicide should be applied at 12 to 14 fluid ounces/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).

REPEAT APPLICATION INFORMATION

Repeat applications of ACCLAIM EXTRA 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 121 fluid ounces per acre (7.79 fl. oz/1000 ft²) per growing season. Avoid applying a second application of ACCLAIM EXTRA Herbicide sooner than 14 days after the first application. A second ACCLAIM EXTRA Herbicide application should only be made 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 fluid 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

1. Adequate soil moisture will enhance the performance of ACCLAIM EXTRA Herbicide. Reduced control may occur with ACCLAIM EXTRA 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 EXTRA Herbicide. Tank-mixes with Telar[®], Escort[®], or Garlon[®] are recommended. Do not apply ACCLAIM EXTRA Herbicide 3 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 EXTRA Herbicide to wildflower species.
4. ACCLAIM EXTRA 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 EXTRA Herbicide 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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