



NOTICE OF WEED CONTROL APPLICATION

Date of Application: March 18, 2026

Location: Willows Park-Small area of turf in the linear. Signs will be posted where treatment is applied.

Reason for Application: Postemergence treatment of the turf for foxtail weed.

Product Manufacturer Name: Bayer Acclaim Extra herbicide

-EPA registration no. 432-950

-Active ingredient: Fenoxaprop-P-ethyl

- Precautionary statement: Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes or clothing.

***See attached label and SDS sheet**

***Dates are subject to change due to weather**



Acclaim[®] EXTRA

HERBICIDE

For postemergence annual and perennial grass control in turfgrass including sod farms, commercial and residential turf, and ornamentals

ACTIVE INGREDIENT:

fenoxaprop-p-ethyl: (+)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]propanoate..... 6.59%*

OTHER INGREDIENTS:..... 93.41%**

TOTAL:

100.00%

EPA Reg. No. 432-950

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

** Contains petroleum distillates

Specimen Label

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

Specimen label is for demonstration purposes only, for product application consult product package label. Not all products are registered in all states. Always read and follow label directions.

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor • Do not induce vomiting unless told to do so by a poison control center or doctor • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

Personal Protective Equipment (PPE)

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 thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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 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.

PRODUCT 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 grass weeds and suppression of some perennial grass 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 on the grass weed is evident approximately 4 to 10 days after application (dependent upon environmental conditions) but control of the grass weeds will take 12 to 21 days. Visible effects begin as a 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 (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: butyl rubber > 11 mils; or natural rubber > 14 mils; or neoprene rubber > 14 mils; or nitrile rubber > 14 mils, 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. Keep unprotected persons out of treated areas until sprays have dried.

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>
Tall fescue	<i>Festuca arundinaceae</i>
Annual bluegrass	<i>Poa annua</i>
Zoysia grass	<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 grass weeds:

Common Name	Scientific Name
Smooth crabgrass	<i>Digitaria ischaemum</i>
Large 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.
Japanese Stiltgrass	<i>Microstegium vimineum</i>

WEED SPECIES SUPPRESSED

Acclaim Extra Herbicide will temporarily suppress the growth of the following perennial grass 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 fl oz/A (0.46 fl oz/1,000 sq ft) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim Extra Herbicide every 28 to 35 days to continue growth suppression of these species. Do not apply more than a total of 120 fl oz per acre (2.75 fl oz/1,000 sq ft) per year.

RESISTANCE MANAGEMENT

Fenoxaprop-p-ethyl, the active ingredient in Acclaim Extra, is a Group 1 herbicide (Acetyl CoA Carboxylase Inhibitor) based on the mechanism of action classification system of the Weed Science Society of America. Continual use of any herbicide with the same mechanism of action may lead to selection of resistant weed populations and reduction in efficacy. To manage the development and spread of resistant weed populations in turfgrass, use multiple herbicide mechanisms of action in mixture, sequence or rotation. Use herbicides at their full specified label rates for the hardest to control weed species present and in conjunction with sound cultural practices to enhance turfgrass competitiveness. Scout sites early and often to keep weeds under control. Monitor sites after herbicide application to ensure control was achieved and to avoid allowing surviving weeds to reproduce by seed or to proliferate vegetatively. Clean equipment between sites to minimize weed spread.

Contact your local extension specialist and /or Bayer representative for additional resistance management or IPM recommendation. Also for more information on Weed Resistance Management, visit the Herbicide Resistance Action Committee (HRAC) on the web at <http://www.hracglobal.com>.

APPLICATION INFORMATION

Acclaim Extra Herbicide is a systemic herbicide which controls only grasses which are emerged at the time of spraying. Young, actively growing grass weeds are more easily controlled than larger grass weeds. Use 40-80 gallons of product per acre for thorough coverage. Refer to the following application rate and timing chart for application rates and timing of application. Avoid applications to turfgrass under stress due to lack of moisture, chemical injury or temperature extremes.

SPRAY DRIFT

- Select nozzles and pressure that deliver medium or coarser spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASABE Standard S-572.
- Applicators may spray only when wind speed is between 3 and 10 mph.
- For aerial applications, the maximum release height must be no higher than 10 feet from the top of the crop canopy, unless a greater application height is required for pilot safety.
- For aerial applications, the distance of the outer most nozzles on the boom must not exceed three-fourths of the length of the wingspan or rotor diameter. To further reduce drift, use one-half of the length of the wingspan or rotor diameter at the edge of a field.

ACCLAIM EXTRA HERBICIDE APPLICATION RATE AND TIMING CHART

ANNUAL GRASS WEED GROWTH STAGE	FL OZ/A	FL OZ / 1,000 SQ FT
1-leaf to 2-leaf*	3.5	0.08
Untilled **	9	0.21
Untilled	13	0.30
1-tiller to 2-tiller	20	0.46
3-tiller to 4-tiller	28***	0.64
4-tiller to 5-tiller	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.

*** Do not apply more than 28 ounces of product to Kentucky bluegrass or Zoysia grass per application. Do not apply more than 39 ounces of product to tall fescue, fine fescue or annual and perennial ryegrass.

Pressurized Hydraulic Sprayer Application

Apply Acclaim Extra Herbicide by means of a pressurized hydraulic sprayer using 30 to 60 psi and 40 to 80 gal of water per acre (0.9 to 1.4 gal of finished spray/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 fl oz/100 gal 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 to 0.46 fl oz of Acclaim Extra Herbicide/gallon of water. Apply 0.30 fl oz of product/gal of water when the grass weed is in the 1 to 4-leaf stage of growth. Apply 0.46 fl oz of product/gal of water when the grass weed has 1 to 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.

MIXING DIRECTIONS

Acclaim Extra Herbicide must be thoroughly mixed to ensure adequate weed control. Follow the directions below when preparing spray mixtures.

Broadcast Spray Equipment

Fill the tank with approximately half of the required water and, with the pump or agitator operating, add the required amount of herbicide and continue filling the tank with the remainder of the water. Add surfactant if needed and mix thoroughly before the application is made.

Back pack or Hand-held Spray Equipment

Fill the tank with approximately half of the required water then add the required amount of herbicide to the tank. Replace the cap and agitate by shaking and/or inverting the sprayer. Add the remaining water required and surfactant if needed, then repeat agitation to ensure that the herbicide solution is thoroughly mixed.

MOWING INFORMATION

Do not mow treated areas for at least 24 hours to allow time for penetration and translocation into the grass 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):

- (a) Continued grass 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 120 fl oz of product/A (2.75 fl oz/1,000 sq ft) per year. Avoid applying repeat applications of Acclaim Extra Herbicide sooner than 14 days after the previous application. Repeat Acclaim Extra Herbicide applications must be made only to grass 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

Acclaim Extra Herbicide is compatible in tank mixes with many other commonly used herbicides, insecticides, fungicides, and fertilizers. Always follow the use directions in accordance with the respective labels. Compatibility of Acclaim Extra Herbicide and other products must be determined in a jar test as follows:

1. Using a clear glass jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with Acclaim Extra Herbicide.

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 Acclaim Extra Herbicide at rates of 9.0 to 28 fl oz/A or 0.21 to 0.64 fl oz/1,000 sq ft according to the application rate and timing recommendation chart when tank mixing with the following products: Barricade[®], bensulide 4E, Dacthal[®], Dimension[®], pendimethalin, Tupersan[®] and Ronstar[®] WP.

B. POSTEMERGENCE BROADLEAF HERBICIDES

A tank mix application of Acclaim Extra Herbicide and broadleaf herbicides may be made to provide broadleaf weed and annual grass weed control. Apply after grass weed germination.

Apply Acclaim Extra Herbicide at rates of 9.0 to 39 fl oz/A or 0.21 to 0.90 fl oz/1,000 sq ft according to the application rate and timing recommendation chart when tank mixing with the following products: dicamba, Confront[®], Turflon[®], Amine, and Turflon[®] Ester.

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

Always apply the following tank mixes of Acclaim Extra Herbicide with pendimethalin at 2.5 lbs/A or 0.9 fl oz/1,000 sq ft. Apply before grass weeds tiller at a rate of 28 fl oz/A or 0.64 fl oz/1,000 sq ft.

Acclaim Extra Herbicide tank mixes for control of Bermudagrass in Zoysia grass and Tall fescue:

Tank mixes of Acclaim Extra Herbicide and triclopyr ester may be used to control Bermudagrass in Zoysia grass and tall fescue when used in a treatment program. A tank mixture of Acclaim Extra Herbicide at 20-28 fl oz/A and 16-32 oz of triclopyr beginning two weeks prior to the time when Bermudagrass normally becomes evident in Zoysia grass and Tall fescue. For the best results, repeat applications every 4-6 weeks for up to 5 applications a season depending on your local conditions. Use the lower rates for uniform populations of Bermudagrass intermixed with the desired turf and higher rates where large Bermudagrass patches are dominant in the turf stand. Do not apply Acclaim Extra Herbicide at more than a total of 120 fl oz/A (2.75 fl oz/1,000 sq ft) per year.

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.
3. Rainfall or irrigation before spray deposit has dried may cause a reduction in grass control. Allow spray deposit to dry at least one hour before irrigation.
4. Acclaim Extra Herbicide may be applied at no more than 9.0 fl oz/A on Kentucky bluegrass seedlings that have tillered and have been emerged for at least 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 grass weeds. Annual grass 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 fl oz/A, 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.
5. Broadleaf herbicides such as 2,4-D or MCPP may reduce the effectiveness of Acclaim Extra Herbicide. Do not apply Acclaim Extra Herbicide within 21 days following a 2,4-D or MCPP application, or 5 days before a 2,4-D or MCPP application.
6. Acclaim Extra Herbicide is a selective grass weed herbicide and has little or no activity on broadleaf plants and sedges.
7. Acclaim Extra Herbicide may be applied to newly plugged Zoysia grass. Fescues and ryegrass may be overseeded immediately following Acclaim Extra Herbicide applications. All other turf species must be overseeded after a 21-day waiting period.
8. DO NOT APPLY this product through any type of irrigation system.
9. DO NOT APPLY Acclaim Extra Herbicide to sod within 4 weeks before cutting for transplanting or within 4 weeks after transplanting.
10. Annual grass weeds that have multiple tillers may require repeat applications.

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 inch: Penncross, Penneagle, Pennlinks, J.H. Bent, Southshore, SR 1020, Providence, Putter, Kingstown, Tracenta, Bardot, Egmont, Allure, Seaside, and Colonial. The turf must 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 0.08 fl oz/1,000 sq ft (3.5 fl oz/A). The Acclaim Extra Herbicide applications must be made at 14 to 21-day intervals beginning when annual grass weeds first emerge and are not larger than 2-leaf. Repeat applications throughout the summer as new infestations of 1 to 2 leaf annual grass weeds occur. DO NOT apply more than 10 applications per year. 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 gal/A (2.30 gal/1,000 sq ft) 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 grass weeds in a wide range of established ornamental species. Plant tolerance may vary according to environmental conditions. Determine tolerance prior to extensive use.

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

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

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

HERBACEOUS & FLOWERING PLANTS

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

(continued)

Common Name	Scientific Name	Common Name	Scientific Name
Maiden Pinks	<i>Dianthus</i>	Snapdragon	<i>Antirrhinum</i>
Missouri Primrose	<i>Oenothera</i>	Snow-in-Summer	<i>Cerastium</i>
Mountain Phlox	<i>Phloxhera</i>	Soapwort	<i>Saponaria</i>
Peony	<i>Peony</i>	Spurred Snapdragon	<i>Antirrhinum</i>
Periwinkle, annual	<i>Vinca</i>	Starflower	<i>Trientalis</i>
Pimpernel	<i>Anagallis</i>	Statice, Annual	<i>Statice</i>
Prairie Coneflower	<i>Ratibida</i>	Sweet Alyssum	<i>Lobularia</i>
Red Yarrow	<i>Achillea</i>	Sweet William	<i>Dianthus</i>
Rocket Larkspur	<i>Delphinium</i>	Tall Primrose	<i>Oenothera</i>
Rocky Mt. Penstemon	<i>Penstemon</i>	Tall Godetia	<i>Godetia</i>
Roman Chamomile	<i>Matricaria</i>	Tidy Tips	<i>Layia</i>
Scarlet Flax	<i>Linum</i>	White Yarrow	<i>Achillea</i>
Siberian Wallflower	<i>Erysimum</i>	Wild Thyme	<i>Thymus</i>
Small Burnet	<i>Sanguisorba</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 grass 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 (seedlings)	<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 grass 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 fl oz/A (0.46 fl oz/1,000 sq ft) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim Extra Herbicide every 28 to 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 grass weeds are more easily controlled than larger grass 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.

Annual Grass Weed Growth Stage	Fl Oz/ Acre	Fl Oz / 1,000 Sq Ft
Untillered	13	0.30
1-tiller to 2-tiller	20	0.46
3-tiller to 4-tiller	28	0.64
4-tiller to 5-tiller	39	0.90

Pressurized Hydraulic Sprayer Application

Apply Acclaim Extra Herbicide by means of a pressurized hydraulic sprayer using 30 to 60 psi and 40 to 80 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 fl oz/100 gal 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 to 0.46 fl oz of Acclaim Extra Herbicide per gallon of water. Apply the lower rate when grass 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 grass 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 to 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 Extra Herbicide treatment.

Do not apply more than a total of 120 fl oz/A (2.75 fl oz/1,000 sq ft) per year. Apply Acclaim Extra Herbicide at 20 fl oz/A (0.46 fl oz/1,000 sq ft) as soon as common Bermudagrass or rhizome Johnsongrass begins growth. Repeat applications of Acclaim Extra Herbicide every 28 to 35 days (never sooner than 14 days) to continue growth suppression of these species. Repeat Acclaim Extra Herbicide applications must be made only to grass 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 spp.</i>
Tall Fescue	<i>Festuca arundinaceae</i>
Common Bermudagrass	<i>Cynodon dactylon</i>
Wheatgrass	<i>Agropyron spp.</i>

(continued)

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

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

Common Name	Scientific Name	Common Name	Scientific Name
Smooth Crabgrass	<i>Digitaria ischaemum</i>	Johnsongrass	<i>Sorghum halepense</i>
Hairy Crabgrass	<i>Digitaria sanguinalis</i>	Wild Oats	<i>Avena fatua</i>
Goosegrass/Silver Crabgrass	<i>Eleusine indica</i>	Roughstalk Bluegrass	<i>Poa trivialis</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>	Sandbur	<i>Cenchrus incertus</i>
Foxtail Species	<i>Setaria spp.</i>	Shattercane	<i>Sorghum bicolor</i>
Panicum Species	<i>Panicum spp.</i>	Japanese Stiltgrass	<i>Microstegium vimineum</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 grass 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

Grass Weed Growth Stage	Fl Oz/A	Pints/A
ANNUAL GRASSES		
1 Tiller	16	1.00
2 Tillers	20	1.25
4 Tillers	28	1.75
5 Tillers	39	2.44
Grass Weed Growth Stage	fl oz/100 Gal	Pints/100 Gal
SEEDLING JOHNSONGRASS		
Up to 12 inches	16	1.00
12 to 24 inches	20	1.25
RHIZOME JOHNSONGRASS		
Up to 12 inches	28	1.75
24 to 60 inches	39	2.44
Repeat Applications		
Up to 12 inches	11	0.69
2 to 24 inches	24	1.50
24 to 60 inches	39	2.44

Spray Application for Rights-of-Way

Apply with ground equipment using 30 to 100 gal of water/A and 30 to 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 fl oz of Acclaim Extra Herbicide per 100 gal 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 must be applied on roadside rights-of-way. For best results, Acclaim Extra Herbicide must be applied at 7 fl oz/A and Fusilade 2000 Herbicide must be applied at 12 to 14 fl oz/A. When utilizing this tank mix, the annual grasses must be 1 leaf to 2 tillers in size; the rhizome Johnsongrass must be 10 to 25 inches in size. Crop oil concentrate must be added to this tank mix at 1% v/v (1 qt/25 gal 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 grass 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 120 fl oz/A (2.75 fl oz/1,000 sq ft) per year. Avoid applying a second application of Acclaim Extra Herbicide sooner than 14 days after the first application. A second Acclaim Extra Herbicide application must only be made to grass weeds with vigorous regrowth.

SURFACTANTS AND CROP OILS

The addition of a nonionic surfactant or paraffin-based crop oil at a rate of 32 fl oz/100 gal of spray solution is prescribed for spray volumes between 30 and 100 gal/A. 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 Telar3, Escort3, or Garlon4 are recommended. Do not apply Acclaim Extra 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 Extra Herbicide to wildflower species.
4. Acclaim Extra Herbicide is a selective grass 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 must be overseeded after a 21-day waiting period.
6. Applications to Bermudagrass may result in temporary injury. Bermudagrass must be well established at the time of application, or severe injury may result.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE

Store in original container and keep tightly closed when not in use. Store in a cool dry place. Avoid cross-contamination with other pesticides.

PESTICIDE DISPOSAL

Pesticides wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA regional office for guidance in proper disposal methods.

CONTAINER HANDLING

Non refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

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Printed in the U.S.A.

Produced for:
 Bayer Environmental Science
 A Division of Bayer CropScience LP
 2 T. W. Alexander Drive
 Research Triangle Park, NC 27709

Bayer

SAFETY DATA SHEET



ACCLAIM® EXTRA HERBICIDE

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name ACCLAIM® EXTRA HERBICIDE
Product code (UVP) 05954002
SDS Number 102000005372
EPA Registration No. 432-950

Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide
Restrictions on use See product label for restrictions.
Information on supplier
Supplier Bayer Environmental Science
A division of Bayer CropScience LP
5000 Centregreen Way, Suite 400
Cary, NC 27513
USA
Responsible Department Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.
Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577
Product Information Telephone Number 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard: Category 1
Carcinogenicity: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Danger

Hazard statements

May be fatal if swallowed and enters airways.

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|| Suspected of causing cancer.

Precautionary statements

|| Obtain special instructions before use.
|| Do not handle until all safety precautions have been read and understood.
|| Wear protective gloves/protective clothing/eye protection/face protection.
|| IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
|| Do NOT induce vomiting.
|| IF exposed or concerned: Get medical advice/ attention.
|| Store locked up.
|| Dispose of contents/container in accordance with local regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.
No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Fenoxaprop-P-ethyl	71283-80-2	6.59
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	34.80
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	14.00
Naphthalene	91-20-3	5.66

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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Most important symptoms and effects, both acute and delayed

Symptoms	If large amounts are ingested, the following symptoms may occur: Headache, Nausea, Dizziness, Somnolence Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration may cause pulmonary oedema and pneumonitis. Inhalation may provoke the following symptoms: Cough, Shortness of breath, Cyanosis, Fever Symptoms and hazards refer to the solvent.
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Indication of any immediate medical attention and special treatment needed

Risks	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Dry chemical, Carbon dioxide (CO ₂), Foam, Water spray
Unsuitable	High volume water jet

Special hazards arising from the substance or mixture	In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO ₂), Nitrogen oxides (NO _x)
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Advice for firefighters

Special protective equipment for firefighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.
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Further information	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
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Flash point	100 °C / 212 °F
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

Advice on common storage Keep away from food, drink and animal feedingstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fenoxaprop-P-ethyl	71283-80-2	2.6 mg/m3		OES BCS*

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		(TWA)		
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	1,600 mg/m ³ /400 ppm (TWA PEL)	09 2006	US CA OEL
Hydrocarbons, C10, aromatics, <1% naphthalene (Non-aerosol.)	64742-94-5	200 mg/m ³ (TWA)	03 2014	ACGIH
Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	100 mg/m ³ (REL)	2010	NIOSH
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	50 mg/m ³ /10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m ³ /15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m ³ /10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m ³ /15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50 mg/m ³ /10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	0.5 mg/m ³ /0.1 ppm (TWA PEL)	10 2014	US CA OEL
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

Biological occupational exposure limits

Components	CAS-No.	Parameters	Biological specimen	Sampling time	Conc.	Basis
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis		Sampling time: End of shift.		ACGIH BEI

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile)

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	rubber or Viton)
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form	Liquid
Colour	white to beige
Odor	characteristic
Odour Threshold	No data available
pH	7.5 - 8.1 (10 %) (23 °C) (deionized water)
Melting point/range	No data available
Boiling Point	No data available
Flash point	100 °C / 212 °F
Flammability	No data available
Auto-ignition temperature	No data available
Minimum ignition energy	Not applicable
Self-accelerating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor Pressure	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	ca. 1.03 g/cm ³ (20 °C)
Water solubility	dispersible
Partition coefficient: n-octanol/water	Fenoxaprop-P-ethyl: log Pow: 4.58 (30 °C)

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Viscosity, dynamic	700 - 1,200 mPa.s (20 °C) Velocity gradient 20 /s 400 - 800 mPa.s (20 °C) Velocity gradient 100 /s
Viscosity, kinematic	No data available
Explosivity	Not applicable
Other information	Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No incompatible materials known.
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Ingestion, Skin contact
Immediate Effects	
Eye	May cause slight irritation.
Skin	Not expected to produce significant adverse effects when recommended use instructions are followed.
Ingestion	Harmful if swallowed.
Inhalation	Not expected to produce significant adverse effects when recommended use instructions are followed.
Information on toxicological effects	
Acute oral toxicity	LD50 (male/female combined Rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (male/female combined Rat) > 10.7 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. (actual)

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Acute dermal toxicity	LD50 (male/female combined Rat) > 4,000 mg/kg
Skin corrosion/irritation	Slight irritant effect - does not require labelling. (Rabbit)
Serious eye damage/eye irritation	Slight irritant effect - does not require labelling. (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Fenoxaprop-P-ethyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Fenoxaprop-P-ethyl did not cause specific target organ toxicity in rats. Fenoxaprop-P-ethyl caused specific target organ toxicity in experimental animal studies in mice in the following organ(s): Kidney.

Assessment mutagenicity

Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Fenoxaprop-P-ethyl demonstrated no carcinogenic potential in a lifetime feeding study in rats. Fenoxaprop-P-ethyl caused an increased incidence of liver tumours in mice at high doses. Fenoxaprop-P-ethyl causes tumours through peroxisome proliferation. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

ACGIH

Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	Group A3
Naphthalene	91-20-3	Group A3

NTP

Naphthalene	91-20-3
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IARC

Naphthalene	91-20-3	Overall evaluation: 2B
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OSHA

None.

Assessment toxicity to reproduction

Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Fenoxaprop-P-ethyl did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

May be fatal if swallowed and enters airways.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
The non-acute information pertains to the active ingredient(s).

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.39 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) > 1.058 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic plants	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.54 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.
Biodegradability	Fenoxaprop-P-ethyl: Not rapidly biodegradable
Koc	Fenoxaprop-P-ethyl: Koc: 11354
Bioaccumulation	Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338 Does not bioaccumulate.
Mobility in soil	Fenoxaprop-P-ethyl: Immobile in soil
Results of PBT and vPvB assessment	
PBT and vPvB assessment	Fenoxaprop-P-ethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Additional ecological information	No other effects to be mentioned.
Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations.
Contaminated packaging	Do not re-use empty containers. Consult state and local regulations regarding the proper disposal of container.

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II

RCRA Information

Follow advice on product label and/or leaflet.

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR

UN number	3082
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL, NAPHTHALENE)
RQ	Reportable Quantity is reached with 1,666 lb of product.

IMDG

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL SOLUTION)

IATA

UN number	3082
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL SOLUTION)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than poison, HAVING A DENSITY OF 20 LBS OR GREATER PER CUBIC FOOT

SECTION 15: REGULATORY INFORMATION

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EPA Registration No. 432-950

US Federal Regulations

TSCA list

Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5
Water	7732-18-5
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9
Glycerine	56-81-5
Castor oil, ethoxylated	61791-12-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

WARNING: This product contains a chemical known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Naphthalene	91-20-3
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This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Hydrocarbons, C10, aromatics, <1% naphthalene	64742-94-5	CT, NJ, RI
Glycerine	56-81-5	MN, RI

Environmental

CERCLA

None.

Clean Water Section 307(a)(1)

Yes

Naphthalene	91-20-3
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Safe Drinking Water Act Maximum Contaminant Levels

Yes

Naphthalene	91-20-3
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EPA/FIFRA Information:

This chemical is a pesticide product regulated by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

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Signal word: Caution!

Hazard statements: Causes moderate eye irritation.
Harmful if swallowed.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2 Flammability - 1 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 10. Stability and reactivity. Section 13. Disposal considerations.

Revision Date: 12/20/2021

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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