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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO. 8340-44	DATE OF ISSUANCE 16 NOV 1992
	TERM OF ISSUANCE Conditional, Expires April 15, 1996	
	NAME OF PESTICIDE PRODUCT Cheyenne® Fnl Herbicide	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Hoechst Celanese Corporation  
 P.O. Box 2500  
 Route 202-206  
 Summerville, NJ 08876-1256

**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. This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/re-registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit data to change the registration of technical fenoxaprop-ethyl to an unconditional FIFRA Section 3(c)(5) registration. The data requirement was listed on the Notice of Registration of that product registration, EPA Registration No. 8340-43.
3. Add the phrase, "EPA Registration No. 8340-44" to your label before you release the product for shipment.
4. Submit five (5) copies of the final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

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

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
<i>Joanne I. Miller</i>	11/16/92

**BEST AVAILABLE COPY**

Revised: October 23, 1992

# CHEYENNE<sup>®</sup> FM HERBICIDE

FOR POSTEMERGENCE CONTROL OF MOST ANNUAL GRASSY WEEDS (INCLUDING WILD OATS AND FOXTAIL SPECIES) AND BROADLEAF WEEDS IN WHEAT

**ACTIVE INGREDIENTS:**

fenoxaprop-ethyl: (±)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate .....6.03%\*

MCPA Isooctyl Ester: Isooctylester of 2-methyl-4-chlorophenoxyacetic acid .....38.14%\*\*

(Equivalent to 24.46% of pure 2-methyl-4-chlorophenoxyacetic acid equivalent)

INERT INGREDIENTS: .....55.83%

TOTAL: 100.00%

\*Equivalent to 0.53 pound of pure fenoxaprop-ethyl per gallon  
\*\*Equivalent to 2.16 pounds of pure 2-methyl-4-chlorophenoxyacetic acid per gallon

KEEP OUT OF REACH OF CHILDREN.

## DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

SEE ATTACHED FOLDER FOR COMPLETE DIRECTIONS OF USE AND ADDITIONAL INFORMATION.

EPA REG. NO. 8340-

EPA EST. NO. 8340-CH-01

NET CONTENTS:

HOECHST CELANESE CORPORATION

Route 202-206  
P.O. Box 2500  
Somerville, NJ 08876-1258

ACCEPTED FOR REGISTRATION  
EPA Letter Date

*Nov 16 1992*

*8340-44*



PRECAUTIONARY STATEMENTSDANGERHAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on skin and clothing. Avoid breathing spray mist. Wear eye goggles, face shield or safety glasses and gloves when mixing and loading. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates or nontarget plants. 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 contaminate water when disposing of equipment washwaters or rinsate.

For a spill emergency, call Chemtrec at 1-800-424-9300.

GROUNDWATER CONTAMINATION

Most cases of groundwater contamination involving phenoxy herbicides such as MCPA have been associated with mixing/loading and disposal sites. Caution should be exercised when handling MCPA pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

CLEANING OF EQUIPMENT

When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells or other water sources.

STATEMENT OF PRACTICAL TREATMENT

**If Swallowed:** Do not induce vomiting. Contains petroleum distillates. Call a physician. Gastric lavage should be supervised by trained personnel because of the possible pulmonary damage via aspiration of the solvent. If possible, bring the container and labeling to attending physician.

**If in Eyes:** Flush eyes with plenty of water for 15 minutes. Get medical attention immediately.

**If on skin:** Wash with plenty of soap and water. Get medical attention if skin irritation develops and persists.

**If Inhaled:** Remove victim to fresh air. Apply artificial respiration if necessary.

For emergency medical assistance, call (908) 231-4125.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Keep container tightly closed when not in use. Avoid cross-contamination with other pesticides.

Do not store over 100°F or below 10°F. Do not use or store near heat or open flame.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT NOTICE: DISCLAIMER**

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using. If terms are not acceptable, return at once unopened.

The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

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

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### GENERAL INFORMATION

Cheyenne® FM Herbicide is a broad-spectrum postemergence herbicide for the control of both grass and broadleaf weeds in wheat. Grass weeds controlled include wild oats, green foxtail (pigeongrass), volunteer and wild millet species. In addition, several broadleaf weeds are controlled including kochia, redroot pigweed, wild mustard, and common lambsquarters.

DO NOT apply to barley.

### APPLICATION DIRECTIONS

Cheyenne® FM Herbicide controls annual grassy and broadleaf weeds with one rate of application.

Ground Application: DO NOT apply when winds are gusty, or when conditions will favor movement of spray particles off the desired spray target. To avoid drift and insure consistent weed control, apply Cheyenne® FM Herbicide with the spray boom as low as possible while maintaining a uniform spray pattern. Apply a minimum of 10 gallons of spray solution per acre, using a spray pressure of 30-40 PSI with flat-fan nozzle tips. Ground speed for application should not exceed 10 mph. DO NOT apply with hollow cone type insecticide nozzles or other nozzles that produce a fine droplet spray. Under dense weed populations, high spray volume (15-20 gpa) is required for obtaining thorough coverage.

Aerial Application: Calibrate the spray equipment prior to use. Cheyenne® FM Herbicide should be applied in a minimum of 5 gallons of water per broadcast acre. To get uniform spray coverage, use nozzles to provide 200-350 micron size droplets. DO NOT use raindrop nozzles. Aerial applications with this product should be made at a maximum height of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi and wind speed not exceeding 10 mph to assure accurate application within the target area. Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin, and should wash thoroughly before eating and at the end of each day's operation.

PRECAUTIONS TO BE TAKEN TO AVOID SPRAY DRIFT

Do not allow spray from aerial equipment to drift onto adjacent land or crops. When drift may be a problem, do everything possible to reduce spray drift, including the following:

- Do not spray if wind speeds are or become excessive. Do not spray if the wind is 10 mph or greater. If sensitive crops or plants are downwind, extreme caution must be used under all conditions. Do not spray if winds are gusty.
- Use extreme caution when conditions are favorable for drift (high temperatures, drought, low relative humidity), especially when sensitive crops are located nearby.
- Drift from aerial applications of the herbicide is likely to result in damage to sensitive plants adjacent to the treatment site. This damage can occur at levels below the concentrations which can be detected with chemical analysis.
- Do not apply when a temperature inversion exists. If inversion conditions are suspected, consult with local weather services before making an application.
- Use the lowest number of nozzles practical with the largest possible orifice size within the specified range to obtain the minimum 5 gallon per acre spray volume. Application height and boom length should be set according to manufacturer's instructions to minimize drift.
- Reduce the volume of spray mixture by using higher flow rate nozzles. Using lower pressure with the appropriate nozzle to obtain higher volumes will also reduce spray drift.
- Apply as close to target plants as practical while maintaining a good spray pattern for adequate coverage.

RATE RECOMMENDATION CHART		
Grass Species	Fl.Oz./Acre	Pts/A
Barnyardgrass Foxtail Millets (volunteer) Common, Siberian, Hungarian, German Green Foxtail Proso Millet Wild Oats Yellow Foxtail* Volunteer Corn	22.4	1.4
<b>Broadleaf Weeds</b>		
Annual Sowthistle Black Mustard Blue/Purple mustard Canada Thistle Common Chickweed Common Cocklebur Common Groundsel Common Lambsquarters Curly Dock False Chamomile Field Pennycress Flixweed Green Smartweed Kochia Ladythumb London Rocket Marshelder Miners Lettuce Pennsylvania Smartweed Prickly Lettuce Prostrate Knotweed Redroot Pigweed Russian Thistle Scentless Mayweed Shepherdspurse Smallflower Buttercup Stinking Mayweed/Doqfennel Tanseymustard Tarweed Fiddleneck Treacle Mustard Tumble Mustard volunteer Lentils Volunteer Peas Volunteer Sunflower Wild Buckwheat* Wild Chamomile Wild Garlic Wild Mustard	22.4	1.4

\* Suppression only

Equipment used in applying MCPA phenoxy herbicide requires special cleaning if it is used for applying non-phenoxy herbicides. Failure to properly clean your equipment could result in undesirable growth effects or injury to sequentially sprayed plants. See Sprayer Cleanup section of this labeling for further information.

#### TIMING OF APPLICATION

**Crops:** The time of application is determined by the growth stage of the wheat and the grassy weed species. Apply Cheyenne® FM Herbicide to spring wheat from the 3 leaf stage to the end of tillering (6 leaf) stage of growth. Winter wheat should have a minimum of 3 tillers before application. **DO NOT spray spring or winter wheat after jointing begins.**

**Weeds:** Cheyenne® FM Herbicide will control wild oats in the 1-4 leaf stage of growth and green foxtail in the 2-leaf to 2-tiller stage of growth. Annual broadleaf weeds should have grown beyond the cotyledon stage but less than 4 inches tall or in diameter. Applications should be made to young, actively growing weeds.

Cheyenne® FM Herbicide has no effect via the soil and will only control emerged grassy and broadleaf weeds.

#### OPTIMUM CONDITIONS FOR WILD OAT CONTROL

The following conditions will result in optimum wild oat control:

- a. adequate soil moisture which occurs under normal rainfall or in soil following a fallow year
- b. temperatures generally lower than 85°F for several days prior to application

Low soil moisture levels, low humidity, and high temperatures will interact to reduce the wild oat control by Cheyenne® FM Herbicide.

Green foxtail (pigeongrass) is controlled over a wide range of soil moisture conditions. However, foxtail showing drought stress and exhibiting rolled leaves ("onion leaf") should not be sprayed as poor control may result.

**MIXING INSTRUCTIONS**

1. Assure the spray tank is thoroughly clean.
2. Fill the spray tank with one-half of the total amount of clean water required for the application and start the agitation or by-pass system.
3. Add the recommended amount of Cheyenne® FM Herbicide and continue agitation.
4. Triple rinse the emptied container into the spray tank.
5. Add the remaining amount of water while agitation continues. Spray immediately. Spray mixture should not be left in spray tank overnight.

**TANK MIX COMBINATIONS**

Cheyenne® FM Herbicide may be tank mixed with Harmony® Extra 75DF Herbicide for broader spectrum weed control in spring wheat and winter wheat. Harmony Extra 75DF Herbicide should be tank mixed at a rate of 0.3 ounces per acre with Cheyenne® FM Herbicide at 22 fluid ounces per acre.

Refer to the specific product labels for all use and precautionary statements.

**USE PRECAUTIONS FOR CHEYENNE® FM HERBICIDE**

1. DO NOT apply to the following crops: barley, corn, rye, or oats.
2. Rainfall within 4 hours after an application may cause a reduction in weed control.
3. DO NOT apply more than 1 application in a growing season.
4. DO NOT apply Cheyenne® FM Herbicide within 70 days of harvesting wheat.
5. DO NOT apply this product through any type of irrigation system.
6. DO NOT tank mix Cheyenne® FM Herbicide with other pesticides, surfactants, or liquid fertilizers unless recommended on this label.

7. Cheyenne® FM Herbicide contains the herbicides fenoxaprop-ethyl and MCPA ester as active ingredients. Do not use when there is hazard from drifting mists (coarse sprays are less likely to drift). Vapors from this product may injure susceptible plants in the immediate vicinity, such as sugarbeets and potatoes.
8. Cool, wet conditions at the time of application may result in temporary height reduction or yellowing of the wheat.
9. DO NOT plant any crop other than wheat or barley for 60 days after application of Cheyenne® FM Herbicide.
10. DO NOT graze or feed forage or hay from treated areas to livestock (harvested straw may be used for bedding and/or feed).
11. DO NOT apply to wheat that is stressed by severe winter, drought, water-saturated soil, disease and insect damage as crop injury may result. Under certain conditions such as prolonged cool weather (daily high temperature less than 50°F) or wide fluctuations in day/night temperatures just prior to, during or soon after treatment, temporary yellowing and/or crop stunting may occur. Risk of injury is greatest when wheat plants are in the 2-leaf to 5-leaf stage when above conditions exist.
12. Naturally-occurring weed biotypes that are resistant to duPont Harmony<sup>R</sup> Extra Herbicide will also be resistant to X-TRA Herbicide.
13. Under certain conditions (drought stress, crop in 2-4 leaf stage), sequential applications of organophosphate insecticides (parathion) may produce temporary crop yellowing or, in severe cases, crop injury.

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 Trademark Information  
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Harmony Extra 75DF Herbicide is a registered trademark of E.I. duPont de Nemours & Co., Inc.