

PM 23

8340-45

Page 1 of 4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 3 1994

Diane L. Rosie
HOECHST CELANESE CORP.
C/O V A DOOR
RT 202-206 BOX 2500
SOMERVILLE NJ 08876

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/06/93 in Response to PR Notice 93-7
EPA Reg. No. 8340-45
DAKOTA HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is **accepted**. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with SoyCanola Ink on paper that
contains at least 50% recycled fiber

Page 2

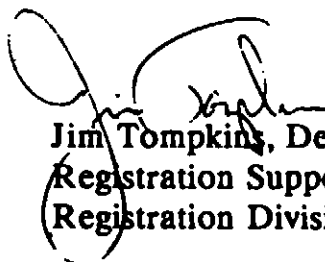
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

3 of 14

~~Revised: December 19, 1992~~
~~Revised: July 6, 1993~~

DAKOTA® HERBICIDE

**FOR POSTEMERGENCE CONTROL OF GREEN FOXTAIL
AND BROADLEAF WEEDS IN SPRING AND WINTER WHEAT**

ACTIVE INGREDIENTS:

fenoxaprop-ethyl: (±)-ethyl 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy] propanoate3.01%*

MCPA Isoocytyl Ester: Isooctylester of 2-methyl-4-chlorophenoxyacetic acid.....50.06%**

(Equivalent to 32.10% of pure 2-methyl-4-chlorophenoxyacetic acid equivalent)

INERT INGREDIENTS:46.93%

TOTAL: 100.00%

*Equivalent to 0.27 pound of pure fenoxaprop-ethyl per gallon
**Equivalent to 2.84 pounds of pure 2-methyl-4-chlorophenoxyacetic acid per gallon

KEEP OUT OF REACH OF CHILDREN.

WARNING AVISO

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA REG. NO. 8340-45

EPA EST. NO. 8340-CN-01

NET CONTENTS:

HOECHST CELANESE CORPORATION

Route 202-206

P.O. Box 2500

Somerville, NJ 08876-1258

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 3 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
8340-45

Hoechst 

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.

EMERGENCY PHONE NUMBER

For Human, Fire, Spill or Environmental Emergency:

Call 1-800-228-5635, Extension 132

PRECAUTIONARY STATEMENTS**WARNING****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. ~~Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category P on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or viton ≥ 14 mils; shoes plus socks; protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering control statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240(d)(4-6))], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations**Users should:**

- * Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- * Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- * Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

BEST AVAILABLE COPY

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.

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.

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, or use of this product in a manner inconsistent with its labeling, 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. 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 barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils or viton ≥14 mils; shoes plus socks; protective eyewear

BEST AVAILABLE COPY

GENERAL INFORMATION

Dakota® Herbicide is a postemergence herbicide for the control of green foxtail (pigeongrass) and certain broadleaf weeds in spring and winter wheat (including durum wheat).

APPLICATION DIRECTIONS

Dakota® Herbicide controls annual grassy and broadleaf weeds listed in the following table.

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 Dakota® Herbicide with the spray boom as low as possible while maintaining a uniform spray pattern. Apply a minimum of 5 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 or other nozzles that produce a fine droplet spray. Under dense weed/crop canopies, high spray volume (15-20 gpa) is required for obtaining thorough coverage.

Aerial Application: Calibrate the spray equipment prior to use. Dakota® 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
Green Foxtail Foxtail Millets (volunteer) Common, Siberian, Hungarian, German Millet	16.0
Broadleaf Weeds Annual Sowthistle Common Lambsquarters Field Pennycress Pigweed (suppression) Purslane Ragweed Shepherdspurse Tumble (Jim Hill) Mustard Wild Mustard Wild Radish	16.0

Dakota® Herbicide contains the herbicide MCPA as one of the active ingredients. 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. Use repeated flushings with soap and warm water or suitable chemical cleaner.

TIMING OF APPLICATION

Wheat: Apply Dakota® 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 three tillers before application. DO NOT spray spring or winter wheat after jointing begins.

Weeds: Dakota® Herbicide will control susceptible grassy weeds in the 2-leaf to 2-tiller stage of growth. Annual broadleaf weeds must not exceed 4 inches in height. Application should be made to young, actively growing weeds. Dakota® Herbicide controls emerged grassy and broadleaf weeds.

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 Dakota® 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.

OPTIMUM CONDITIONS FOR GREEN FOXTAIL CONTROL

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.

TANK MIX COMBINATIONS

Dakota® Herbicide may be tank mixed with one of the listed herbicides for broader spectrum weed control in wheat. Refer to the following chart for the approved broadleaf tank mix partners and the correct rates of application for Dakota® Herbicide.

Dakota® Herbicide may be tank mixed with either Furadan® 4 F or Sevin® XLR PLUS insecticides if timing for insect and weed control are proper.

TANK MIX RECOMMENDATION CHART (All rates listed in ounces/acre)			
Dakota® Herbicide	Product	Tank Mix Partner* Formulation	Rate
16.0 fl.oz.	Banvel	4.0 lb./gal.	2.0 fl.oz.
	Banvel SGF	2.0 lb./gal.	4.0 fl.oz.
	Tordon	22K	1.5 fl.oz.
22.0 fl.oz.	Amber	75DF	0.28 oz.
	Buctril **	2EC	12.0-16.0 fl.oz.
	Express	75DF	0.17 oz.
	Harmony Extra	75DF	0.3 oz.
	Stinger	3.0 lb./gal.	5.3 fl.oz.

* No more than one tank mix partner can be mixed with Dakota Herbicide.

** The addition of Buctril 2EC Herbicide to Dakota® Herbicide may cause temporary yellowing and/or height reduction to the wheat.

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

USE PRECAUTIONS FOR DAKOTA® HERBICIDE

1. DO NOT apply to rye, oats or corn.
2. Rainfall within 1 hour 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 Dakota® Herbicide within 70 days of harvesting wheat.
5. DO NOT apply this product through any type of irrigation system.
6. DO NOT tank mix Dakota® Herbicide with other herbicides, surfactants, or liquid fertilizers unless specifically recommended on this label.
7. Dakota® Herbicide contains the active ingredients fenoxaprop-ethyl and MCPA ester. 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.
8. Cool, wet conditions at the time of application may result in temporary stunting or chlorosis of the wheat.
9. DO NOT apply any pesticides other than those listed on this label within 5 days of a Dakota® Herbicide application or reduced grassy weed control may occur.

Trademark Information

Banvel and Banvel SGF are registered trademarks of Sandoz Crop Protection Corporation.

Harmony Extra and Express are registered trademarks of E.I. duPont de Nemours & Co., Inc.

Buctril and Sevin XLR PLUS are registered trademarks of Rhone-Poulenc Ag Company.

Tordon and Stinger are registered trademarks of DowElanco.

Amber is a registered trademark of CIBA-GEIGY Corporation.

Furadan 4 F is a registered trademark of FMC Corporation.
