

PM 25 524-417

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

FEB 23 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dr. Russell P. Schneider
MONSANTO CO.
Agent for: MONSANTO AGRICULTURAL CO.
700 14th Street, N.W. - Suite 1100
Washington, D.C. 20005

Subject: Label Amendment Submission of 12/16/93 in Response to PR Notice 93-7
EPA Reg. No. 524-417
EXPEDITE BROADLEAF HERBICIDE 2-WAY ESTER

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

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 subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



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Printed with Soy/Canola
contains at least 50% recycled content

Each notification must include the following information:

1. Registrant's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director
Compliance Division, (7203)
Worker Protection Notification
Office of Compliance Monitoring
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the 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 neither been reviewed nor 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:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

- WITHIN one year from date of this acceptance.

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

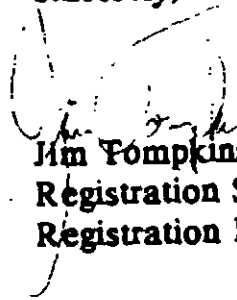
Document Processing Desk (FIN-LABEL)
 Office of Pesticide Programs (7505C)
 U.S. Environmental Protection Agency
 401 M Street, SW
 Washington, D.C. 20460-0001

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Hand or courier deliveries of final 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

cc: Office of Compliance Monitoring

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EXPEDITE °
BROADLEAF 2-WAY ESTER HERBICIDE
by Monsanto
For selective control of broadleaf weeds.

Specially formulated for Expedite™ Application Equipment.

Complete Directions for Use

EPA Reg. No. 524-417

Covers from 38,000 to 57,000 square feet.

™ Expedite is a trademark of, and used under license from, Nomix Plc.

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ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 23 1991

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

524-417

MONSANTO COMPANY 1990

MONSANTO COMPANY
AGRICULTURAL PRODUCTS
ST. LOUIS, MISSOURI 63167 U.S.A.

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Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyers and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contract with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, application ranges set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

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PRECAUTIONARY STATEMENTS

Hazards to
Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF SWALLOWED OR INHALED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes or clothing.
Avoid breathing vapor or spray mist.

~~When mixing, loading, or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical-resistant gloves, long-sleeved shirt, long pants, socks and shoes.~~

~~Wash hands, face and arms with soap and water as soon as possible after mixing, loading, or applying this product. Wash hands, face and arms with soap and water before eating, smoking, or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower.~~

Personal Protective Equipment:

~~Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and 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. After each day of use, clothing or PPE must not be reused until it has been cleaned.~~

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.~~

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FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

IF SWALLOWED, do NOT induce vomiting. Give large quantities of water. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and non-target plants. 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 contaminate water when disposing of equipment cleaning solutions.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and MCPP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and MCPP pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and 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.

ACTIVE INGREDIENTS:

*Isooctyl ester of 2,4-dichlorophenoxyacetic acid	9.6%
**Isooctyl ester of 2-(2-methyl-4-chlorophenoxy) propionic acid	19.4%
INERT INGREDIENTS	71.0%
	100.0%

Contains petroleum distillates.

*2,4-dichlorophenoxyacetic acid equivalent 0.5 pounds per U.S. gallon or 6.4%.

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**2-(2-methyl-4-chlorophenoxy) propionic acid equivalent 1.05 pounds per U.S. gallon or 12.7%.

IMPORTANT PRECAUTIONS

The following instructions apply to all uses of this product. Failure to observe these precautions may result in injury or damage.

- Apply this product only through Expedite application equipment. Equipment must be cleaned after each use and prior to storage. When cleaning equipment, do not pour the cleaning solution on the ground; spray or drain over a large area away from wells and other water sources.
- Do not contaminate water used for irrigation or domestic purposes.
- Avoid spray contact or drift onto susceptible plants, as this product can injure flowers, shrubs, vegetable gardens, grapes, fruit trees and other desirable plants or crops. DO NOT USE THIS PRODUCT FOR WEED CONTROL IN FLOWER OR VEGETABLE BEDS OR AROUND ORNAMENTALS.
- Applications near sensitive plants when air temperature on the day of application is expected to exceed 85°F, or during windy conditions, are more likely to cause drift and possible injury to desirable plants.
- Do not spray on carpetgrass, dichondra lawns, or turfgrasses where desirable clovers are present or while turfgrass is emerging from dormancy.
- Do not apply to newly seeded turfgrass until well established or after several mowings.
- Overlapping of spray swath may increase the potential for turfgrass injury with this product.

DIRECTIONS FOR USE

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

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contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains instructions for the decontamination of clothing and equipment, and also contains specific instructions for the protection of the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this pesticide to areas where it may be used by other persons, either directly or indirectly. Only trained and authorized handlers may be in the area during application. Do not enter or allow others to enter the restricted-entry interval (REI) area until the PPE required for early entry is removed. Under the Worker Protection Standard, the following are required for early entry: coveralls, waterproof gloves, and shoes or socks.

This product is a selective postemergence broadleaf weed killer especially formulated for use through Expedite application equipment only. It kills many broadleaf weeds found in coarse and fine turfgrass areas.

This product is recommended for commercial, industrial and residential turfgrass management in areas such as airports, golf courses, highways and roadsides, industrial plant sites, institutional sites, municipalities, lawns, parks, playgrounds, pipeline, power, telephone and utility rights-of-way, schools and similar sites.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE:

Store this product in its original container and in a secured storage area.

DISPOSAL:

Wastes of this pesticide may cause eye irritation and may be dangerous. 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 Agency or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed. Do not reuse container.

When container is completely emptied through Expedite application equipment, puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WEEDS CONTROLLED

When applied as recommended under the conditions described, this product controls or suppresses many common annual, biennial, and perennial broadleaf weeds, some of which are listed below:

ANNUALS, BIENNIALS AND PERENNIALS

Catsear, spotted
Clover spp.
Dandelion, common
Geranium spp.

Knotweed
Mustard, black
Plantain, buckhorn
Trefoil spp.

HOW TO APPLY

Apply this product as a uniform spray over the foliage of undesirable vegetation. Use only Expedite application equipment when applying this product.

Before spraying, or during the calibration process, the lance must be primed to remove trapped air. To prime the lance, set the head setting to G+ and depress the trigger until all air is removed from the lance. Priming must be done with the head of the lance held above the handle but below the level of the product container.

To select general flow rate settings for applying this product, use the Expedite Set-N-Spray settings listed in the following application guide. The letters followed by a number (A0....E1) represent equipment settings for flow rates within the application range recommended for this product. If more precise equipment calibration is desired, use the Multi Flow* units listed below the Set-N-Spray settings in the following application guide. See the "HOW TO CALIBRATE" section of this label for specific calibration procedures.

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A range of application rates are represented in the following application guide. Use the higher rate in the range on difficult-to-control species, perennials and mature weeds.

When the desired head setting is obtained, use the round spinner and adjust the spinner speed to obtain the correct swath width and apply product at the desired walking speed. Keep lance head moving at desired ground speed during application to avoid over application and turf injury.

**EXPEDITE BROADLEAF 2-WAY ESTER HERBICIDE
APPLICATION GUIDE**

**SET-N-SPRAY SETTING
30 SECOND MULTI FLOW™ MEASUREMENT**

SPRAY SWATH WIDTH	WALKING SPEED			
	1.5 MPH	2.0 MPH	2.5 MPH	
3.0 MPH				
12"	<u>A0 to A2</u> 7 TO 11	<u>A2 to A4</u> 10 TO 14	<u>A3 to B1</u> 12 TO 18	<u>A4 to B2</u> 14 TO 22
18"	<u>A2 to A5</u> 11 TO 16	<u>A4 to B2</u> 14 TO 22	<u>B1 to B4</u> 18 TO 27	<u>B2 to C1</u> 22 TO 32
24"	<u>A4 to B2</u> 14 TO 22	<u>B1 to B5</u> 19 TO 29	<u>B3 to C1</u> 24 TO 36	<u>B4 to C3</u> 29 TO 43
36"	<u>B2 to C1</u> 22 TO 32	<u>B4 to C3</u> 29 TO 43	<u>C1 to D2</u> 36 TO 54	<u>C3 to E1</u> 43 TO 65

*One Multi Flow equals 0.8 Milliliter.

™Multi Flow is a trademark of Nomix, Plc.

HOW TO CALIBRATE

1. Determine the proper Multi Flow units required from the above application guide. The number of Multi Flow units required is where the swath width row intersects the walking speed column.

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For example, for a 1.5 mph walking speed and a 12" swath width, 7 to 11 Multi Flow units are recommended.

2. Prime the lance.
3. Remove the spray disc and attach the Expedite calibration flow cup.
4. For the initial calibration check, set the equipment within the range of Set-N-Spray settings listed in the application guide. Lower the lance head to the spraying position, depress the trigger for 30 seconds and compare the measured volume to the desired Multi Flow units.
5. If required, adjust the head setting and repeat the process until the desired Multi Flow units are obtained. To remove the product from the calibration cup, raise the lance above head level and depress the trigger long enough to allow the product to flow back into the lance.
6. When the desired head setting is obtained, remove the calibration cup and reattach the round spinner.

CLEANING OF EQUIPMENT

The Expedite application equipment must be cleaned after each use and prior to storage. Use Expedite cleaner to remove residues of this product. Failure to properly clean the equipment may result in equipment failure or injury to subsequently treated desirable vegetation. After thorough cleaning, equipment may be used to apply other products, especially formulated for use in Expedite application equipment.

Wastes resulting from the use or cleaning of equipment that cannot be used or chemically reprocessed should be disposed of in accordance with applicable Federal, state or local procedures. See the "Storage and Disposal" section of this label for more information.

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EPA Reg. No. 524-417

In case of an emergency involving this product, call Collect, day or night, (314) 694-4000.

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ST. LOUIS, MISSOURI 63167 U.S.A.