

pm 23

524-446

MAR 23 1994

Ms. Sherri D. Schuette  
Monsanto Company  
700 14th Street, N.W.  
Suite 1100  
Washington, D.C. 20005

Dear Ms. Schuette:

Subject: Label Amendment - Changes in calibration, set-n-spray  
charts and side panel graphics  
Expedite Broadleaf Herbicide 3-Way Amine  
EPA Registration Number 524-446  
Your Letters Dated June 8, 1993 and December 10, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records, please submit three (3) copies of final printed labeling prior to releasing the product for shipment.

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely yours,

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

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Enclosures

CONCURRENCES

SYMBOL	7505C						
SURNAME	Robbins						
DATE	3/22/94						

**EXPEDITE® BROADLEAF HERBICIDE 3-WAY AMINE**

**LABEL FOR 1 GALLON CONTAINER**

Label registered September 27, 1991

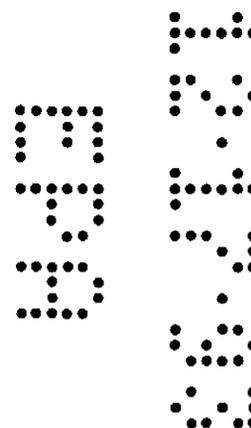
**MONSANTO COMPANY  
ST. LOUIS, MISSOURI 63167  
DECEMBER, 1993**

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated**

MAR 23 1994

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

534-446



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**EXPEDITE®**  
**BROADLEAF HERBICIDE**  
**3-WAY AMINE by Monsanto**  
For selective control of broadleaf weeds.

Low Volatile Formulation for Expedite ~~Application~~ Application Equipment.

Complete Directions for Use

EPA Reg. No. 524-446

Covers from 14,000 to 21,000 square feet.

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

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MONSANTO COMPANY 1993

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 IS PROHIBITED. This package may be used to refill 750 ml containers that are specifically labeled for refilling with this product. Follow refilling instructions on side panel of this container. ✓

**PRECAUTIONARY STATEMENTS**

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**HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

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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.)

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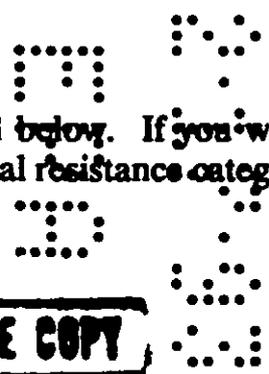
**Precautionary Statements:**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid contact with skin.

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. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first.

**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 E on an EPA chemical resistance category selection chart.



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Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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:

- 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.

**FIRST AID:**

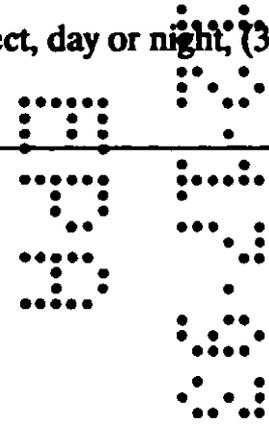
IF IN EYES, hold eyelids open and flush with steady gentle stream of water for 15 minutes.

IF SWALLOWED, drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

IF ON SKIN, wash with plenty of soap and water.

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

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ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or run-off may adversely affect aquatic invertebrates and nontarget 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:

* Dimethylamine salt of 2,4-dichlorophenoxyacetic acid .....	4.7%
** Dimethylamine salt of 2-(2-methyl-4-chlorophenoxy)propionic acid .....	3.2%
*** Dimethylamine salt of dicamba(3,6-dichloro-o-anisic acid .....	0.5%
INERT INGREDIENTS .....	91.6%
	100.0%

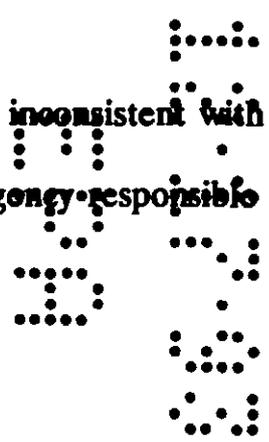
Contains petroleum distillates.

- \* 2,4-dichlorophenoxyacetic acid equivalent 0.3 pounds per U.S. gallon or 3.9%.
- \*\* 2-(2-methyl-4-chlorophenoxy)propionic acid equivalent 0.2 pounds per U.S. gallon or 2.6%.
- \*\*\* 3,6-dichloro-o-anisic acid equivalent of 0.03 pounds per U.S. gallon or 0.4%.

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 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 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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 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, are:

- coveralls
- waterproof gloves
- shoes plus socks
- protective eyewear

**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.

Do not reenter or permit people to reenter treated areas until sprays have dried.

**STORAGE AND DISPOSAL**

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

**STORAGE:**

Store this product between 32°F and 100°F 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 Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

When container is completely emptied, 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.

**IMPORTANT PRECAUTIONS**

This product is a selective postemergence broadleaf weed killer especially formulated for use through Expedite and Nomis application equipment. It kills many broadleaf weeds found in coarse and fine turfgrass areas. Best results will be obtained from spring or early fall applications when weeds are actively growing.

This product is recommended for commercial, industrial and residential and noncropland uses in areas such as airports, farmsteads, 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.

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 and Nomis 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.

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- 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. **AVOID USE OF THIS PRODUCT FOR WEED CONTROL IN FLOWER OR VEGETABLE BEDS OR AROUND ORNAMENTALS. DO NOT ALLOW THE SPRAY TO CONTACT THE ROOTS OF ORNAMENTALS AND TREES.**
- 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.
- Avoid spraying during long, excessively dry or hot periods unless adequate irrigation is available.
- Irrigation or rainfall within 24 hours after application may reduce weed control.
- Do not spray on carpetgrass, dichondra lawns, or turfgrasses where desirable clovers are present.
- Grass seed can be safely sown 3 to 4 weeks after application at recommended rates.
- Do not apply to newly seeded turfgrass until well established or after several mowings.
- Applications to turfgrass emerging from dormancy may result in significant turf injury.
- Overlapping of spray swath may increase the potential for turfgrass injury with this product.

**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**

Black medic  
 Catsear, spotted  
 Clover  
 Dandelion, common

Knotweed  
 Geranium  
 Plantains  
 Speedwell

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## HOW TO APPLY

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Apply this product as a uniform spray over the foliage of undesirable vegetation.

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 (A1...G5) represent equipment settings for flow rates within the application range recommended for this product. If equipment calibration is desired to obtain equipment settings, see the "HOW TO CALIBRATE" section of this label.

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

When the desired head setting is obtained, use the proper 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.

[REDACTED]

**EXPEDITE® BROADLEAF HERBICIDE 3-WAY AMINE  
APPLICATION GUIDE**

**SET-N-SPRAY SETTINGS**

SPINNER TYPE	SPRAY SWATH	WALKING SPEED		
		WIDTH		
			1.5 MPH	2.25 MPH
Square Spinner	12"	A3 to A5	A5 to B2	
	18"	A5 to B2	B2 to B4 A5 to B4	
Serrated Spinner	24"	B2 to B4	B4 to C1 B3 to C2	
	30"		B4 to C4	
	36"	B4 to C1	C1 to D2 C2 to D2	

Rate range represents 1.1 to 1.7 pounds acid equivalent or 2 to 3 gallons of product per acre.

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**EXPEDITED SERVICE CENTER - AGRICULTURE  
EXPEDITED APPLICATION GUIDE**

**SPRAY SETTINGS**

SPINNER TYPE	SPRAY SWATH		WALKING SPEED			
	WIDTH		1.5 MPH	2.0 MPH	2.5 MPH	3.0 MPH

Square Spinner	18"	A1 to A2	A1 to A5	A3 to B1	A5 to B2
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	24"	A1 to A5	A3 to B1	B1 to B2	B1 to B4
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Serrated Spinner	30"	A3 to B1	B1 to B2	B2 to B4	B3 to C1
------------------	-----	----------	----------	----------	----------

	36"	A5 to B2	B2 to B4	B3 to C1	B4 to D1
--	-----	----------	----------	----------	----------

Rate range represents 1.1 to 1.7 pounds acid equivalent or 2 to 3 gallons of product per acre.

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## HOW TO CALIBRATE

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1. Determine the proper Multi Flow<sup>®</sup> units required from the following calibration guide. The number of Multi Flow units required is where the swath width row intersects the walking speed column. For example, for a 1.5 mph walking speed with the Compact Multi Flow and a 12 inch swath width, 14 to 22 Multi Flow units are recommended.
2. Before calibrating, 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.
3. Remove the spinner 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 in the "HOW TO APPLY" section. 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 Flow Cup, raise the lance above head level and depress the trigger long enough to allow the product to flow back into the lance. Do not allow air to reenter the lance. If air enters the lance, it must be reprimed.
6. When the desired head setting is obtained, remove the Calibration Flow Cup and reattach the proper spinner and follow the instructions in the "HOW TO APPLY" section on how to spray this product.

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**EXPEDITE® BROADLEAF HERBICIDE 3-WAY AMINE  
CALIBRATION GUIDE**

**30 SECOND MULTI FLOW® MEASUREMENTS**

SPINNER TYPE	SPRAY SWATH	WALKING SPEED	
		WIDTH	
Use	12"	14 to 21	21 to 32
Square Spinner	18"	21 to 32	32 to 48
Use	24"	28 to 42	42 to 63
Serrated Spinner	30"	54 to 81	
	36"	42 to 64	64 to 95

Rate range represents 1.1 to 1.7 pounds acid equivalent or 2 to 3 gallons of product per acre.

\*One Multi Flow equals 0.8 Milliliter.

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[REDACTED]

[REDACTED]

SPINNER  
SWATH 10' WALKING SPEED  
WIDTH 15 MPH @ 2.0 MPH @ 3.5 MPH @ 5.0 MPH

Square Spinner 15' 22 to 32 25 to 35 30 to 43 35 to 54 43 to 65

24' 29 to 43 38 to 57 48 to 72 57 to 86

Serrated Spinner 30' 36 to 54 54 to 81 60 to 90 72 to 108

36' 43 to 65 57 to 86 72 to 108 86 to 129

Rate range represents 1.1 to 1.7 pounds acid equivalent or 2 to 3 gallons of product per acre.

\*One Multi Flow equals 0.8 Milliliter.

<sup>TM</sup>Multi Flow is a trademark of Nomix, Plc.

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INSTRUCTIONS FOR THE USE OF THE CALIBRATION  
SPINNER

EXPERIENCE WITH THE CALIBRATION SPINNER

SPINNING SPEED AND WALKING SPEED GUIDE

WALKING SPEED 2.25 MPH

SPINNER TYPE	SPRAY SWATH WIDTH	CALIBRATION TIME
		16 (45) H

Square Spinner	18"	C1 to C4
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	24"	C3 to D4
--	-----	----------

Serrated Spinner	30"	D1 to E3
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	36"	D4 to F4
--	-----	----------

Rate range represents 1.1 to 1.7 pounds acid equivalent or 2 to 3 gallons of product per acre.

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**OPERATION INSTRUCTIONS FOR COMPACT MARK II**

**HOW TO CALIBRATE**

1. The flow rate control is set to the required flow rate with the Spray Column. For example, for applying at the maximum rate, the Computer Mark II settings between D1 to D3 are recommended.
2. Note the time required for calibration at a step above the required flow rate setting column. For example, for applying at the maximum rate, a calibration time of 11 seconds is required.
3. Before calibrating, the lance must be primed to remove trapped air. To prime the lance, set the Flow Rate control 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 lower than the product container.
4. Remove the spinner and attach the Calibration Flow Cup.
5. Prime the Calibration Flow Cup by lowering the lance into the spraying position, depressing the trigger for 3 seconds. Raise the spray head to head level and depress the trigger to allow the product to flow back to the zero line of the Calibration Flow Cup.
6. Lower the lance head to the spraying position, depress the trigger for the required calibration time and check the measured volume matches the desired spray swath width line on the Calibration Flow Cup.
7. If the measured volume does not match the line, adjust the Flow Rate control up or down and repeat the process until the desired volume is obtained.
8. To remove the product from the Calibration Flow Cup, raise the spray head to head height and depress the trigger to allow the Calibration Flow Cup to empty. Do not allow air to reenter the lance. If air enters the lance, ie the Flow Rate window empties, the lance must be reprimed.
9. When the desired flow rate is obtained, remove the Calibration Flow Cup and reattach the desired spinner and follow the instructions in the "HOW TO APPLY" section on how to spray this product.

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### CLEANING OF EQUIPMENT

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The Expedite application equipment must be cleaned after each use and prior to storage. Use Expedite cleaner to remove residues of this product. To clean the lance, connect the lance to the cleaner box, set the head setting to G+ and let the cleaner flow until it runs clear. Disconnect the lance from the cleaner box and remove the remaining cleaner from the lance. Do not drain cleaner back into the box. 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" and "Important Precautions" section of this label for more information.

### 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 contact 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, 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.

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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.

Esperite and Multi Flow are trademarks of Nomin Chipman Limited, UK.

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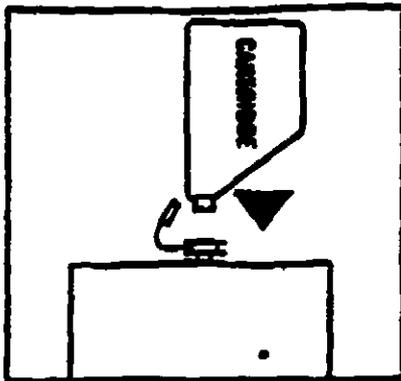
In case of a human health emergency involving this product,  
Call Collect, day or night, (314) 694-4000.

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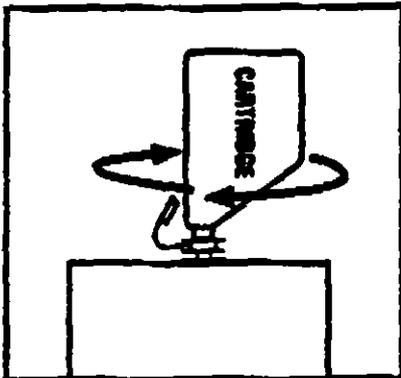
MONSANTO COMPANY  
AGRICULTURAL PRODUCTS  
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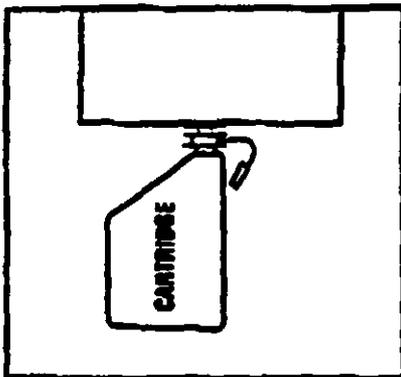
## TO REFILL



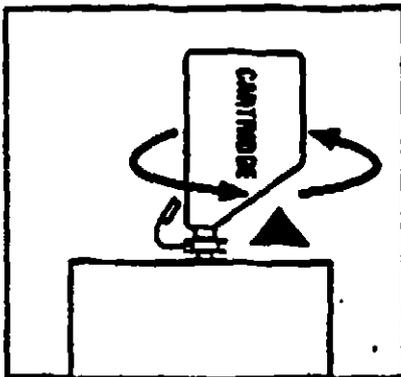
Align grooves of the Compact cartridge to ridges of the Big Five refill pack.



Twist the cartridge clockwise through 90° to lock the two containers and open valves.



Invert, ensuring the Big Five pack is uppermost and allow the cartridge to refill.



Unlock the packs by twisting anti-clockwise through 90° and disconnect.

Keep a cloth handy to wipe the nozzle of the refilled cartridge.

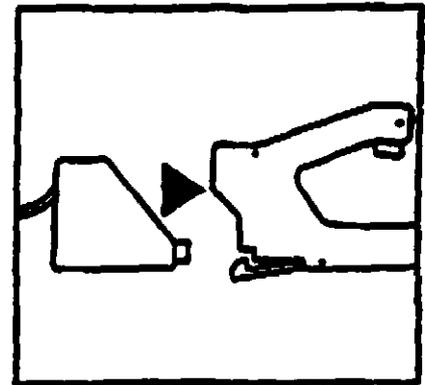
NOTE: Empty cartridges should only be refilled for one season.

Use same cartridges and spray nozzles with the same herbicide as originally labeled.

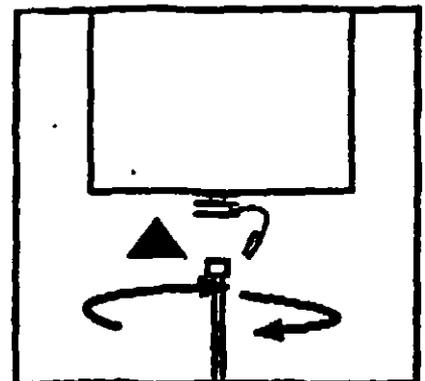
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## AS A BACKPACK

TO CONNECT

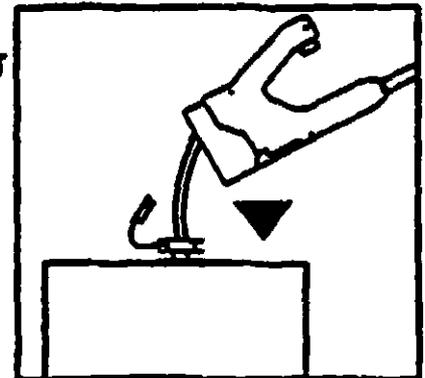


Insert Nonax Link-Up cassette into the Compact

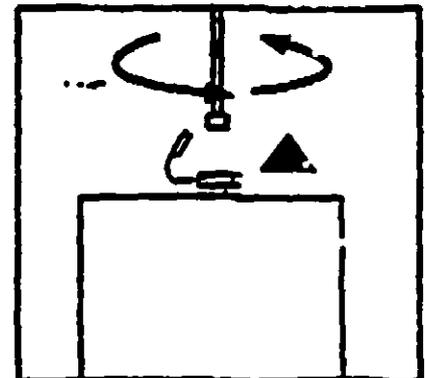


Insert Big Five into backpack. Connect to herbicide pack by aligning groove of pipe to ridges of Big Five and twist through 90° clockwise.

TO DISCONNECT



Raise Compact above backpack. Depress Compact trigger to drain herbicide through lance and into Big Five.



Unlock by twisting anti-clockwise through 90° and disconnect.

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