

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

100-755

DATE OF ISSUANCE

7/19/93

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Cotoron Accu-Pak

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Ciba-Geigy Corporation  
Ciba Plant Protection  
P.O. Box 18300  
Greensboro, NC 27419

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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required reregistration of your product under FIFRA section 4.
2. Add the phrase, "EPA Registration No. 100-755" and submit five (5) copies of your final printed labeling before you release the product for shipment.
3. Change the Environmental Hazards statement to read "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."

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Robert J. Taylor

DATE

7/19/93

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, section 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.

A stamped copy of your label is enclosed for your records.

3012

BAG

with COMMENTS:  
EPA Letter Dated:

JUL 19 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-755

Cotoran® Accu-Pak™

Herbicide

For preemergence and postemergence  
weed control in cotton

Cotoran Accu-Pak is a water dispersible granule.

Active Ingredient:

Fluometuron: 1,1-dimethyl-3-  
( $\alpha,\alpha,\alpha$ -trifluoro-m-  
tolyl) urea

Fluometuron: 1,1-dimethyl-3- ( $\alpha,\alpha,\alpha$ -trifluoro-m- tolyl) urea	85%
Inert Ingredients:	15%
Total:	100%

4.71 Pounds  
Net Weight

Keep Out of Reach of Children.

**WARNING**

See additional precautionary statements and directions for use  
inside booklet.

EPA Reg. No. 100-

EPA Est. No. 5905-IA-01

Product ID. 58620

CGA 33L27A 091

This outer protective container contains Cotoran Accu-Pak in an  
inner water-soluble bag. Entire inner bag and contents dissolve  
in water. After opening outer container, immediately dump en-  
tire unopened inner bag into the partially filled sprayer or mix  
tank. Do not handle the soluble bag or expose it to moisture,  
since this may cause rupturing.

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DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR WEED CONTROL, AND/OR ILLEGAL RESIDUES.

Do not apply this product through any type of irrigation system.

General Information

Cotoran Accu-Pak is effective for both annual grass and annual broadleaf weed control in cotton.

Weed Control

Cotoran Accu-Pak applied according to directions will selectively control annual weeds in cotton, such as:

Annual Grass Weeds

- |               |                          |
|---------------|--------------------------|
| Barnyardgrass | Foxtail                  |
| Crabgrass     | Goosegrass               |
| Crowfootgrass | Ryegrass                 |
| Fall panicum  | Signalgrass (Brachiaria) |

Annual Broadleaf Weeds

- |                       |                              |
|-----------------------|------------------------------|
| Spurred anoda         | Prickly sida (teaweed)       |
| Cocklebur             | Purslane                     |
| Florida pusley        | Ragweed                      |
| Groundcherry (Wright) | Sesbania                     |
| Jimsonweed            | Sicklepod                    |
| Lambsquarters         | Smartweed                    |
| Morningglory          | Russian thistle (tumbleweed) |
| Pigweed               |                              |

Cotoran Accu-Pak at rates up to 2.4 lbs. per acre in cotton is not effective for the control of established perennial weeds, such as johnsongrass from rhizomes.

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Application Procedures

Mixing Instructions

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary to maintain tank mix uniformity. Maintain a maximum of agitation throughout the spraying operation. Flush spray tank thoroughly with water daily after use and dispose of pesticide rinsate by application to an already treated area.

Add 2/3 of the required amount of water to the spray or mixing tank. With the agitator running, drop the required number of unopened soluble bags of Cotoran Accu-Pak into the tank. If boron or fertilizer is to be added to the spray tank, do not add it until the water-soluble package is completely dissolved. Continue agitation while adding the remainder of water or nitrogen solution and during application to maintain a uniform suspension.

If Cotoran Accu-Pak settles out when mixed with a nitrogen solution, a suspensibility agent, such as Unite®, Compex®, or equivalent at 1-3 pts. per 100 gals. fertilizer, may improve compatibility.

Equipment

Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials as crop damage or sprayer clogging may result.

Use properly calibrated conventional spray equipment that will apply spray uniformly and has hydraulic or mechanical agitation, except in CA or AZ where only mechanical agitators are recommended. Screens in nozzles, in suction, and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension. Avoid leaving spray mixture in tank without constant agitation. If bypass agitation is used, it should terminate at the bottom of the tank to minimize foaming. Wash sprayer thoroughly with clean water immediately after use.

Apply in a minimum of 10 gals. per acre for preplant incorporated or preemergence applications, or apply in a minimum of 20 gals. per acre for postemergence application.

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Band Treatment

For band treatment, calculate the amount of Cotoran Accu-Pak needed by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

IMPORTANT

Do not allow Cotoran Accu-Pak to become wet or overheated during storage as this may lead to the soluble bag rupturing or to chemical changes which will impair the herbicidal effectiveness of Cotoran Accu-Pak and which may also generate flammable vapors.

Cotton

Cotoran Accu-Pak may be applied as a preemergence treatment to the surface of the soil, or lightly incorporated immediately after planting, or as a directed, semi-directed, or over-the-top postemergence application. For preemergence treatment only, Cotoran Accu-Pak may be tank-mixed with most liquid nitrogen fertilizers. Cotoran Accu-Pak may be combined with other herbicides in cotton as directed in the section, "Combinations."

Cotoran Accu-Pak is most effective when used as follows:

1st Application: Preemergence broadcast. See Preemergence Treatment below.

2nd Application: Postemergence, directed, semi-directed, or over-the-top when cotton is 3-6 inches high. See Postemergence Treatments below.

3rd Application: If needed, postemergence, directed, or semi-directed, at lay-by (last normal cultivation), using no more than 1.2 lbs. per acre.

Preemergence Treatment

Apply Cotoran Accu-Pak at a rate of 1.2-2.4 lbs. per acre. On light silt and sandy soils, low in organic matter, use the lower rate.

Cotoran Accu-Pak may be applied to the surface of the soil, or lightly incorporated into the soil, after planting cotton.

Preplant Incorporated Use (Arizona, California, and New Mexico)

Cotoran Accu-Pak may be applied preplant as a broadcast spray at 1.9 lbs. per acre after the beds for preplant irrigation have been formed. Apply before the beds are dragged off (using a bed shaper set to remove 1-2 inches from beds) in preparation for planting. Furrow irrigation should precede the application and planting should follow as soon as possible. Plant into untreated soil after drag-off and return treated soil to the beds when furrows are reformed. Do not allow furrow irrigation water to pond over the beds.

Postemergence Treatments

Cotoran Accu-Pak may be applied postemergence to cotton but pre-emergence to weeds, or postemergence to both cotton and weeds. Cotoran Accu-Pak should be applied at rates of 1.2-2.4 lbs. per acre. Apply as a directed, semi-directed, or over-the-top spray. Cotoran Accu-Pak may be applied to cotton plants at any stage of growth from 3 inches high to lay-by. Use the higher rate when applying postemergence to weeds; weeds should be 2 inches high or less. Use of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran Accu-Pak when applied to cotton may enhance the postemergence herbicidal activity of Cotoran Accu-Pak. The surfactant rate should not exceed 0.5% of the carrier volume (1 pt. per 25 gals. of water).



**Precautions:** Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of Cotoran Accu-Pak; where dry weather conditions prevail, the herbicidal activity of Cotoran Accu-Pak may be delayed or reduced. Cultivate if weeds develop.

Do not make more than three applications of Cotoran Accu-Pak to the same crops or field in any one year. Do not plant crops other than cotton or sugarcane within 6 months of the last application of Cotoran Accu-Pak or injury may result.

The use of Cotoran Accu-Pak as a preemergence or early post-emergence application, following the use of a systemic insecticide at planting, may result in injury to cotton.

**West TX only:** Do not use Cotoran Accu-Pak on sandy, loamy sand, or fine sandy loam soils. Do not use Cotoran Accu-Pak on cotton planted in furrows.

**AR, LA and MS only:** Use 1.0 lb. of Cotoran Accu-Pak per acre on sandy loam soils low in organic matter.

**AZ, CA and NM only:** Cotton, corn and grain sorghum can be planted the next spring. Do not plant treated areas to other crops until one year after last application. Do not use on sandy or coarse-textured soil of less than 1% organic matter.

**Note:** Do not apply within 60 days of harvest. Do not feed foliage from treated cotton plants or gin trash to livestock.

Combinations

**Dual® 8E:** Use in a tank mixture with Cotoran Accu-Pak pre-emergence in cotton for control of all weeds as listed on both labels. This combination will also control spotted spurge, hyssop spurge, nodding spurge, and prostrate spurge. Apply to the soil surface at planting or after planting, but before weeds or crop emerge, using the appropriate rates from the table below. Note: Incompatibility may occur, add X-77® at 0.5% volume/volume spray (4 pts./100 gals.) to help overcome this condition.

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Cotoran Accu-Pak + Dual 8E - Cotton  
(AR, LA, MS, Eastern OK, TN, Bootheel of MO, and  
Gulf Coast, Rio Grande Valley and Eastern TX)

Soil Texture	Broadcast Rates Per Acre	
	Cotoran Accu-Pak	Dual 8E
Sand, loamy sand	DO NOT USE	
Sandy loam*	1.2 lbs.	1.25-1.5 pts.
Loam, silt, silt loam	1.2-1.9 lbs.	1.5-2 pts.
Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	1.9-2.4 lbs.	2 pts.

\*Use on sandy loam soils only in eastern OK and Gulf Coast, Rio Grande Valley, and eastern TX.

Precautions: 1) Do not apply Cotoran Accu-Pak + Dual 8E on sand or loamy sand soils or in areas where water is likely to "pond" over the bed, or crop injury may occur. 2) Do not apply broadcast to furrow-planted cotton. 3) The use of Cotoran Accu-Pak following the use of a systemic insecticide at planting may result in crop injury. 4) Do not use on Taloka silt loam, or crop injury may occur.

Refer to the Dual 8E label for further instructions, precautions, and limitations.

Note: Do not feed treated forage or gin trash to livestock, or graze treated areas.

Rotational Crops: Refer to the crop rotation instructions for Cotoran Accu-Pak alone on this label and for Dual 8E alone on the Dual 8E label.

Treflan EC

Apply Cotoran Accu-Pak as a preplant incorporated or preemergence soil surface treatment as recommended on this label after a preplant soil incorporated treatment of Treflan EC. Refer to the Treflan EC label for directions, precautions, and limitations for use of that product, as well as the directions, precautions, and limitations on this Cotoran Accu-Pak label.

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Prowl®: Apply Cotoran Accu-Pak as a preplant incorporated or preemergence soil surface treatment as recommended on this Cotoran Accu-Pak label after a preplant soil-incorporated treatment of Prowl. Refer to the Prowl label for directions, precautions, and limitations for use of that product.

Zorial® Rapid 80: Apply Cotoran Accu-Pak according to directions on this Cotoran Accu-Pak label as a preemergence soil surface treatment following a preplant incorporated application of Zorial Rapid 80 or tank mix with Zorial Rapid 80 and apply as a preemergence treatment. Refer to the Zorial Rapid 80 label for directions for use, precautions, and limitations for use of that product.

DSMA or MSMA: Cotoran Accu-Pak may be tank-mixed with DSMA or MSMA and applied as a directed spray to cotton from three inches high to first bloom. Use the broadcast rate of 1.2-2.4 lbs. of Cotoran Accu-Pak per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pt. per 25 gals.) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran Accu-Pak + DSMA or Cotoran Accu-Pak + MSMA when applied to cotton. When using this mixture, do not allow spray to contact cotton foliage. Do not graze treated areas or feed treated forage or gin trash to livestock. Adhere strictly to the dosage and limitations on the labels of the products.

#### Storage and Disposal

Storage - Store in a cool, dry place. Do not store this product under wet conditions. Handle outer container carefully when stored at temperatures less than 50°F to avoid breakage of inner soluble bag.

#### Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water 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 the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

#### Container Disposal

Do not reuse outer container. Dispose of empty outer container in a sanitary landfill or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc. follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleaning procedures and disposal of wastes. In the event of a major

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spill, fire or other emergency, call 1-800-888-8372 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. Wear protective clothing, as this product may cause skin rash after repeated exposure. Avoid contact with skin or clothing. Avoid breathing dust or spray mist.

First Aid: In case of contact with eyes, immediately flush with plenty of water. Get medical attention if irritation occurs. In case of contact with skin, wash thoroughly with soap and water. Get medical attention if irritation occurs. If swallowed, drink water and induce vomiting by placing fingers at back of throat. Immediately contact a physician, hospital, or local poison control center. In case of inhalation exposure, move from the contaminated area.

Note to Physician: If Cotoran Accu-Pak is ingested, lavage stomach or induce vomiting. A slurry of activated charcoal in water can be left in the stomach. Give a saline laxative and supportive therapy.

Environmental Hazards

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

Accu-Pak™, Cotoran® and Dual® trademarks of CIBA-GEIGY

Compex® trademark of KALO Agricultural Chemicals, Inc.

Prowl® trademark of American Cyanamid

Treflan® trademark of DowElanco Products

Unite® trademark of Hopkins Agricultural Chemical Co.

X-77® trademark of Chevron Chemical Company

Zorial® Rapid 80 trademark of Sandoz Ltd.

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