

Reg # 100-549

111-21

WPS

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WPS

Cotoran® 80WP

Herbicide

For preemergence and postemergence  
weed control in cotton

REGISTERED  
 DEC 20 1984  
 U.S. PATENT OFFICE  
 100-549

Five Pounds  
Net Weight

Active Ingredient:

Fluometuron: 1,1-dimethyl-3-( $\alpha,\alpha,\alpha$ -trifluoro-m-  
 tolyl) urea ..... 80%

Inert Ingredients: ..... 20%

Total: ..... 100%

EPA Reg. No. 100-549

EPA Est. 100-AL-1

Cotoran 80WP is a wettable powder

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.)

See additional precautionary statements  
on side of bag.

See directions for use on panel at  
right.

Ciba-Geigy

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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.

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Conditions of Sale and Warranty

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) 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.

Faint, illegible text or stamp in the bottom right corner.

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General Information

Cotoran 80WP is effective for both annual grass and annual broadleaf weed control in cotton.

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

Weed Control

Cotoran 80WP applied according to directions will selectively control annual weeds in cotton such as:

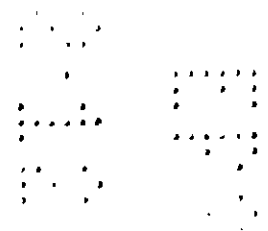
Annual Grass Weeds

Barnyardgrass	Fall panicum
<u>Brachiaria</u>	Foxtail
Crabgrass	Goosegrass
Crowfootgrass	Ryegrass

Annual Broadleaf Weeds

Buttonweed	Pigweed
Cocklebur	Prickly sida
Florida pusley	(Ironweed or teaweed)
Goathead	Purshlane
Groundcherry	Ragweed
(Wright)	Sesbania
Jimsonweed	Sicklepod
Lambsquarters	Smartweed
Morningglory	Tumbleweed

Cotoran 80WP at rates up to 2.5 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

Cotoran 80WP is highly concentrated and should be thoroughly mixed as a paste or thick slurry in water in a separate container before adding to the spray tank. The spray tank should contain 1/3-1/2 the total amount of water or nitrogen solution to be used before adding the slurry.

To determine compatibility, add one tablespoon of Cotoran 80WP to one pint of nitrogen solution (equals 2.5 lbs. in 25 gals; if using other application rates, adjust compatibility test amounts proportionally). Stir or shake thoroughly. Let stand 5 minutes. If it remains mixed or can be remixed readily, the mixture is compatible and can be used. If Cotoran 80WP settles out when mixed with nitrogen solution, a suspensibility agent, such as Compex® at 1-2 pts. per 100 gals. fertilizer, may improve compatibility. Add 1/8-1/4 teaspoon of Compex to the compatibility test to determine its effectiveness.

Use bypass or mechanical agitation in the spray tank. 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.

Equipment

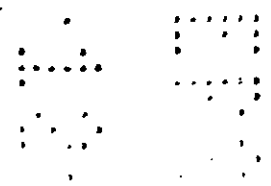
Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials as crop damage or sprayer clogging may result.

For uniform distribution use fan-type nozzles. Use 50-mesh or coarser screens in nozzles and strainers. Use a suitable pump with capacity to deliver (1) the necessary volume to the nozzles at 35-40 psi, and (2) an additional volume to maintain the mixture in suspension in the spray tank. Apply in 20-40 gals. of spray mixture per acre.

Band Treatment

For band treatment, calculate the amount of Cotoran 80WP needed by the formula:

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



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Directions for Use

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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 interval. 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.** Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks

## Cotton

Cotoran 80WP 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 may be tank mixed with most liquid nitrogen fertilizers. Cotoran may be combined with other herbicides in cotton as directed in the section, "Combinations."

### Cotoran 80WP 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 Treatment below.

3rd Application: If needed, postemergence, directed, or semi-directed, at lay by (last normal cultivation), using no more than 1.25 lbs. per acre.

### Preemergence Treatment

Apply Cotoran 80WP at a rate of 1.25-2.5 lbs. per acre. On light silt and sandy soils, low in organic matter, use the lower rate.

Cotoran 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 80WP may be applied preplant as a broadcast spray at 2 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 re-formed. Do not allow furrow irrigation water to pond over the beds.

### Postemergence Treatments

Cotoran 80WP may be applied postemergence to cotton but pre-emergence to weeds, or postemergence to both cotton and weeds. Cotoran 80WP should be applied at rates of 1.25-2.5 lbs. per acre. Apply as a directed, semi-directed, or over-the-top spray. Cotoran 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

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or less. Use of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran 80WP when applied to cotton, may enhance the postemergence herbicidal activity of Cotoran. The surfactant rate should not exceed 0.5% of the carrier volume (1 pt. per 25 gals. of water).

**Precaution:** Rainfall that is sufficient to germinate seeds or for growing crops is adequate to activate the herbicidal activity of Cotoran; where dry weather conditions prevail, the herbicidal activity of Cotoran may be delayed or reduced.

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

The use of Cotoran 80WP as a preemergence or early postemergence application, following the use of a systemic insecticide at planting, may result in injury to cotton.

West Texas only: Do not use Cotoran on sandy, loamy sand, or fine sandy loam soils. Do not use Cotoran on cotton planted in furrows.

Arkansas, Louisiana, and Mississippi only: Use 1 lb. of Cotoran 80WP per acre on sandy loam soils low in organic matter.

Arizona, California, and New Mexico 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

Treflan® EC: Use in a tank mixture with Cotoran 80WP (all areas except Arizona and California) or before an overlay with Cotoran 80WP in cotton for control of all weeds listed on both labels. For the tank mixture, refer to the Treflan EC label for directions, precautions, and limitations. For the overlay, apply Cotoran 80WP as a preemergence surface treatment as recommended on this label at 1.25-2.5 lbs. per acre after a preplant soil-

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incorporated treatment of Treflan EC. Apply Treflan EC as recommended on its label at 1-2.5 pts. per acre.

Prowl®: Apply Cotoran 80WP as a preemergence surface treatment as recommended on this label at 1.25-2.5 lbs. per acre after a preplant soil-incorporated treatment of Prowl for control of all weeds listed on both labels. Apply Prowl as recommended on its label at 1-3 pts. per acre.

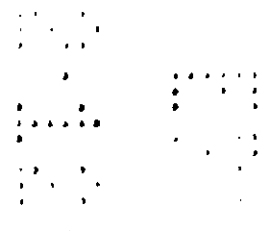
DSMA or MSMA: Cotoran may be tank mixed with DSMA or MSMA and applied as a directed spray to cotton from three inches high to first bloom. Use the broadcast rate of 1.25-2.5 lbs. of Cotoran per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pt. per 25 gals.) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran 80WP + DSMA or Cotoran 80WP + 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

Store in a dry place. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of unused 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.

Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. Stay out of smoke from burning bags.

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 cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call (919) 292-7100 day or night.





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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

Harmful if swallowed, inhaled or absorbed through the skin. May cause skin irritation or skin sensitization on repeated contact. Avoid contact with eyes. Do not get on skin or clothing. Avoid breathing dust or spray mist.

First Aid: In case of contact with skin, wash immediately with plenty of soap and water. In case of contact with the eyes, flush with water for at least 15 minutes and get medical attention if irritation persists. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Induce vomiting. Avoid alcohol. Call a physician immediately. In case of inhalation exposure, move from the contaminated area.

Note to Physician: There is no specific antidote for Coto-ran 80WP. Induce emesis or lavage stomach. Give a saline laxative and supportive therapy.

**Personal Protective Equipment:**

**Applicators and other handlers must wear:**

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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.

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**Engineering Control Statements:**

When handlers use closed systems or enclosed cabs 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.

**Environmental Hazards**

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used for irrigation or domestic purposes.

Cotoran® trademark of Ciba-Geigy for fluometuron

Compex® trademark of KALO Laboratories, Inc.

Prowl® trademark of American Cyanamid for pendimethalin

Treflan® trademark of Elanco Products for trifluralin

Ciba Plant Protection  
Ciba-Geigy Corporation  
Greensboro, North Carolina 27409

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CGA 33L1J 038

	August 3, 1981
Revised	April 16, 1986
Revised	March 2, 1988
Revised	November 18, 1993

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Cotoran® 80WP

EPA Reg. No. 100-549

Changes made to permanent typed label:

6/22/81

1. Revised signal word (Caution to Warning) and revised precautionary statements.
2. Addition of Storage and Disposal section.

8/3/81

Added EPA Est. 100-AL-1.

4/15/86

Delete sugarcane; updated storage and disposal text.

3/2/88

Add chemigation prohibition.

11/18/93

WPS