

7/21/95 PM 25 100-704 8/1/95

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0030, Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number <h2 style="margin:0;">155103</h2>
	Application for Pesticide:		

Section I		
1. Company/Product Number 100-704	2. EPA Product Manager Taylor	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Cotoran® DF	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Ciba Crop Protection P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section II	
<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification (PR Notice 95-2): Add crop injury advisory.

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<input type="checkbox"/> No * Certification must be submitted.	<input type="checkbox"/> No If "Yes," Unit Package wgt. No. per container	<input type="checkbox"/> No If "Yes," Package wgt. No. per container	<input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) of Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other (_____) <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

Section IV		
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Thomas J. Parshley	Title Senior Regulatory Manager	Telephone No* (Include Area Code) 910-632-7207
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Manager	
4. Typed Name Thomas J. Parshley	5. Date 9-18-95	

WPS
BOOKLET

Cotoran® DF

HERBICIDE

For preemergence and postemergence weed control in cotton

Active Ingredient:

Fluometuron: 1,1-dimethyl-3-

(α,α,α -trifluoro-*m*-tolyl) urea85%

Inert Ingredients:15%

Total:100%

Cotoran DF is a water dispersible granule.

10 Pounds

Net Weight

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

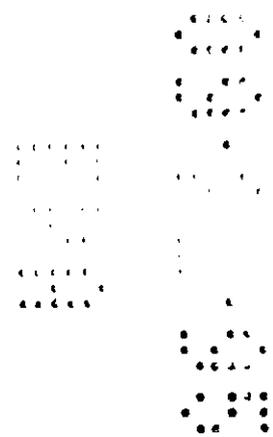
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-704

EPA Est. 9779-AR-13

CGA 33L25D 015



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DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

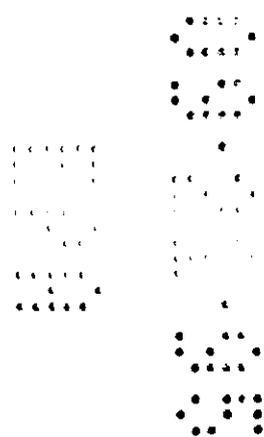
IMPORTANT: Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

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 punitive damages resulting from the use or handling of this product. Ciba-Geigy and the Seller of this product, and the Buyer, each hereby accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be printed only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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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.

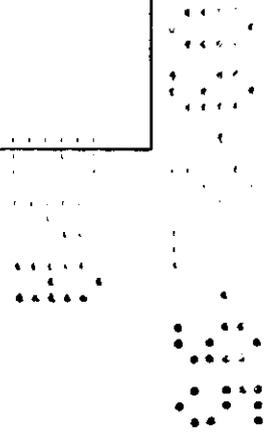
AGRICULTURAL USE REQUIREMENTS

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 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 workers on agricultural areas during the restricted entry interval (REI) of 24 hours. Exception: If the product is soil-applied 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear



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 DF is effective for both annual grass and annual broadleaf weed control in cotton.

Weed Control

Cotoran DF 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 (<i>Brachiaria</i>) |

Annual Broadleaf Weeds

- | | |
|----------------------------|------------------------------|
| purple and white cocklebur | velvetleaf (ground) |
| Florida pusley | purslant |
| groundcherry (Wright) | rigwort |
| jimsonweed | sesbania |
| lambquarters | sicklepod |
| morningglory | smartweed |
| pigweed | Russian thistle (tumbleweed) |

Cotoran DF at rates up to 2.4 lbs/A in cotton is not effective for the control of established perennial weeds, such as johnsongrass from rhizomes.

Application Procedures

Mixing Instructions

(1) Fill spray tank 1/4 full with clean water or nitrogen solution. (2) Start agitation. (3) Pour Cotoran DF directly from the container into the partially filled spray tank. (4) If Cotoran DF is to be tank mixed with another

herbicide, add that product after the Cotoran DF is thoroughly mixed in the partially filled spray tank. (5) Add the rest of the water or nitrogen solution. (6) Provide agitation during mixing and application to maintain a uniform suspension.

To determine compatibility, add 3 teaspoons of Cotoran DF to 1 pt. of nitrogen solution (equals 2.4 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 DF settles out when mixed with a nitrogen solution, a suspensibility agent, such as Compex®, Unite®, or equivalent at 1-3 pts./100 gals. fertilizer, may improve compatibility. Add 1/8-3/8 teaspoon of Unite to the compatibility test to determine its effectiveness.

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 AZ where only mechanical agitators are recommended. Screens in nozzles, in sections, and in-line strainers should be no finer than 1/16 mesh. Use a pump with capacity to maintain 35-40 psi at the nozzle. If hydraulic agitation is used, the pump should also provide uniform agitation in the tank to keep the mixture in suspension. If using a spray mixture in tank agitation, the pump should provide uniform agitation in the tank to keep the mixture in suspension. If hydraulic agitation is used, it should terminate at the nozzle of the tank to minimize foaming. Wash sprayer thoroughly with clean water immediately after use.

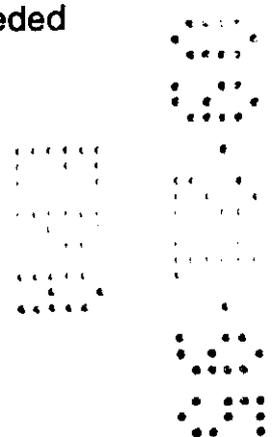
Apply in a minimum of 10 gals./A for preplant incorporated or preemergence applications, or apply in a minimum of 20 gals./A for postemergence application.

Band Treatment

For band treatment, calculate the amount of Cotoran DF 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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Cotton

Cotoran DF 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 DF may be tank-mixed with most liquid nitrogen fertilizers. Cotoran DF may be combined with other herbicides in cotton as directed in the **Combinations** section.

Cotoran DF is most effective when used as follows:

1st Application: Preemergence broadcast. See the **Preemergence Treatment** section.

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

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

Preemergence Treatment

Apply Cotoran DF at a rate of 1.2-2.4 lbs./A. On light soil and sandy soils, low in available water, use the lower rate.

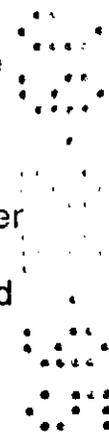
Cotoran DF may be applied to the surface of the soil, or lightly incorporated into the soil, after planting cotton.

Preplant Incorporation (AZ and NM)

Cotoran DF may be applied preplant as a broadcast spray at 1.9 lbs./A 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 DF may be applied postemergence to cotton, but preemergence to weeds, or postemergence to both cotton and weeds. Cotoran DF should be applied at rates of 1.2-2.4 lbs./A. Apply as a directed, semi-directed, or over-the-top spray. Cotoran DF 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 DF when applied to cotton, may enhance the postemergence herbicidal activity of Cotoran DF. The surfactant rate should not exceed 0.5% of the carrier volume (1 pt./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 DF; where dry weather conditions prevail, the herbicidal activity of Cotoran DF may be delayed or reduced. Cultivate if weeds develop.

Do not make more than 3 applications of Cotoran DF to the same crops or field in any 1 year. Do not plant crops other than cotton or sugarcane within 6 months of the last application of Cotoran DF, or injury may result.

The use of Cotoran (any application method) in conjunction with a systemic insecticide at planting may result in injury to cotton. In addition, Cotoran applied to cotton with any application of Command (clomazone) herbicide may result in crop injury. Ciba-Geigy Corporation will not be held responsible for losses or damage resulting from such uses.

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

AR, LA, and MS only: Use 1.0 lb. of Cotoran DF per acre on sandy soils with low organic matter.

AZ 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 DF preemergence 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 following table. **Note:** If incompatibility occurs, add X-77® at 0.5% volume/volume spray (4 pts./100 gals.) to help overcome this condition.



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

Soil Texture	Broadcast Rates Per Acre	
	Cotoran DF	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, Gulf Coast, Rio Grande Valley, and eastern TX.

Precautions: (1) Do not apply Cotoran DF + Dual 8E on sand or loamy sand soils or in areas where water is likely to "pond" over the field, or crop injury may occur. (2) Do not apply broadcast to furrow-planted cotton. (3) The use of Cotoran (any application method) in conjunction with a systemic insecticide at planting may result in injury to cotton. In addition, Cotoran applied to cotton with any application of Command (clomazone) herbicide may result in crop injury. Ciba-Geigy Corporation will not be held responsible for losses or damage resulting from such uses. (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 DF alone on this label and for Dual 8E alone on the Dual 8E label.

Treflan® EC: Apply Cotoran DF 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 DF label.

Prowl®: Apply Cotoran DF as a preplant incorporated or preemergence soil surface treatment as recommended on this Cotoran DF 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 DF according to directions on this Cotoran DF 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 DF may be tank-mixed with DSMA or MSMA and applied as a directed spray to cotton from 3 inches high to first bloom. Use the broadcast rate of 1.2-2.4 lbs. of Cotoran DF per acre and the necessary amount of DSMA or MSMA plus 0.5% (1 pt./25 gals.) of a surfactant that is approved by FDA for use on food and feed crops and is compatible with Cotoran DF + DSMA or Cotoran DF + 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.

Container and 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.

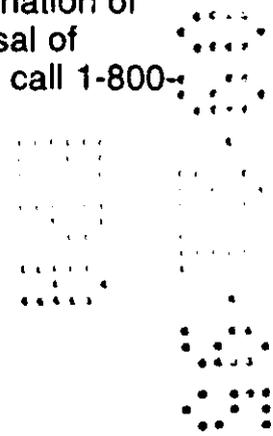
Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. Stay out of smoke from burning jugs.

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 1-800-888-8372, day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

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WARNING/AVISO

Causes eye irritation. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. 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 DF 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.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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 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.

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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

This chemical is known to leach through soil into ground water under certain conditions, as a result of registered uses. Uses of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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 wash waters.

Cotoran® and Dual® trademarks of Ciba-Geigy Corporation

Compex® trademark of KALO Agricultural Chemicals, Inc.

Drowl® trademark of American Cyanamid

Treflan® trademark of DowElanco

Unite® trademark of HACO, Inc.

X-77® trademark of Loveland Industries, Inc.

Zorial® Rapid 80 trademark of Sandoz Ltd.

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Ciba Crop Protection
Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 33L25D 015

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(BOOKLET BACK COVER)

Getaran 9-DE

HERBICIDE

For preemergence and postemergence weed control in cotton

Active Ingredient:

Fluchloruron: 1,1-dimethyl-3-(α,α,α -trifluoro-*m*-tolyl) urea85%

Inert Ingredients
Total

10 Pounds
Net Weight

EPA Reg. No. 100-704

EPA Est. No. 9779-AR-13

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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

Hazards to Humans and Domestic Animals

Causes eye irritation. Do not get in eyes. Harmful if swallowed, inhaled, or absorbed through the skin. 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 D is ingested, induce vomiting or vomiting. A slurry of activated charcoal in water can be left in the stomach. Give a saline laxative and supportive therapy.

Environmental Hazards

This chemical is known to leach through soil into surface water under certain conditions, as a result of registered uses. Uses of this chemical in agricultural soils are permeable, particularly where the water table is close to the surface may result in ground water contamination.

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 wash waters.

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

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Ciba-Geigy Corporation
Greensboro, North Carolina 27419

CGA 33L25D 015

Revised January 25, 1995
(Add GW, delete CA,
other minor changes)

[QUARK]COTORAN DF\COTDF-BKLT - 9/13/95 - ccg

