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ZORIAL® DF

DRY FLOWABLE HERBICIDE

FOR CONTROL OF CRASS AND BROADLEAF WEEDS IN COTTON AND SOYBEANS

ACTIVE INGREDIENT:

MAY 21884

KEEF OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Environmental Hazards: Do not apply directly to any body of water. Do not apply when weather conditions favor runoff or drift from treated areas: Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE: Neither Zoecon nor the seller make any warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose concerning this material, except those which are contained on this label.

LOCATION OF USE

For use in cotton and soybeans in the states of Alabama, Arkansas, North Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.

ZUECON CORPORATION CROP PROTECTION DIVISION

A SANDOZ COMPANY

Palo Alto, California 94303

U.S. PAT. No. 3,644,355 EPA Reg. No. 1.273-EPA Est. No.

NET 5 POUNDS

ZORIAL is a trademark of Sandoz, Inc. (1184E/119C)

WEEDS CONTROLLED

ZORIAL DF Herbicide at recommended rates is effective for:

A. Controlling the following weeds in cotton or soybeans:

Barnyardgrass Crabgrass Foxtail Goosegrass Signalgrass Panicum spp.

Johnsongrass (seedling)

Carpetweed Florida Pusley Pennsylvania Smartweed

Pigweeds Prickly Sida Purslane Sicklepod Spotted Spurge Spurred Anoda (cottonweed) Velvetleaf

B. Suppressing the following weeds in cotton or soybeans:

Bermudagrass
Johnsongrass (rhizome)
Nutsedge (yellow
and purple)
Lanceleaf Sage
(mintweed)

Cocklebur Common Ragweed Hemp Sesbania Kochia Morningglory Russian Thistle Other Smartweeds Venice Mallow

1137-44

DIRECTIONS FOR USE

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

GENERAL INFORMATION

ZORIAL® DF is a herbicide for control of certain grasses and broadleaf weeds in cotton and soybeans. Apply ZORIAL DF before weeds emerge. ZORIAL DF can be applied preplant incorporated, preemergence surface, or as a split application in areas with 40 inches or more annual rainfall. In areas with less than 40 inches rainfall, apply as a preplant incorporated or split application only.

The soil surface should be free of clods and existing weeds prior to application.

If replanting of cotton or soybeans is necessary, a light reworking of the topsoil will retain the herbicidal activity of ZORIAL DF.

Peanuts can be planted as a replacement crop 30 days after ZORIAL DF application. Prior to planting, a light reworking of the topsoil is recommended to remove existing plant material and to retain herbicidal activity.

Do not graze treated cotton fields with livestock or feed treated cotton forage to livestock. Cover crops planted after harvest should be plowed under and not grazed or harvested. To minimize injury to small grain cover crops, they should be broadcast planted rather than drilled.

Quantity of ZORIAL DF applied in any one year must not exceed the broadcast rate in pounds per acre for a given soil type.

For one year following ZORIAL Dr application, treated acreage may only be rotated to cotton, soybeans, and peanuts.

Crop Safety: If the cotton or soybean plant is stressed during early development, application of ZORIAL DF at the label rate may result in temporary bleaching or chlorosis of the leaves from which the plant will recover.

MIXING INSTRUCTIONS

Clean and calibrate the sprayer. Add ZORIAL DF to the spray tank already filled with 1/4 of the required volume of the water. Maintain agitation while filling and spraying. If a by-pass line is used, discharge at the botton of the tank to minimize foaming.

Do not allow Zorial DF spray mixture to remain in the spray tank overnight because settling could occur and resuspension would be difficult.



Tank Mixes: Always predetermine the compatibility of labeled tank mixes by mixing small proportional quantities in advance.

Products should be added to the spray tank in the following order:

- 1. Wettable powders and water dispersable granules. Wettable powders should be premixed in a small amount of water. Water dispersable granulars should be added during filling. Allow both to disperse before other products are added. The order of addition is not important.
- 2. Flowable liquids.
- 3. Emulsifiable concentrates.
- 4. Surfactants.

Begin adding dispersable granular when 1/4 full. Continue agitation during the addition of all the materials and while filling and spraying. Begin adding wettable powders, flowable liquids, emulsifiable concentrates, and surfactants after the spray tank is 3/4 full.

APPLICATION DIRECTIONS

Ground Application: Apply the recommended rate of ZORIAL DF in 10-20 gallons of water per acre. Apply accurately with a fixed boom sprayer. Equip sprayer with 8002 to 8006 fan jet nozzle tips or equivalent for broadcast application. Use 8002E to 8006E nozzle tip or equivalent for band applications. Use screen size 50 mesh or larger.

Aerial Application: Apply the recommended rate of ZORIAL DF in 5 or more gallons of water per acre. To minimize drift, use ZORIAL DF with a drift control agent such as Nalco-Trol® and Ortho-Trol®. Do not apply during periods of gusty winds or winds in excess of 5 mph. Aerial spray equipment, flying speed and flying height should be carefully adjusted to provide a uniform application to the soil surface. Use markers to avoid overlapping and possible crop injury.

Preplant Incorporated Application (PPI): Apply ZORIAL DF at the recommended rate from 30 days to just prior to planting. In West Texas and Southwest Oklahoma, ZORIAL DF may be applied up to 60 days prior to planting. Incorporate not deeper than 2-3 inches with commonly used equipment. Incorporation should occur within one week after application.

Preemergence Surface Application (PRE): Apply ZORIAL DF at the recommended rate at the time of planting and preemergence to weeds.

Split Application - THE 20RIAL SPLITTM: Apply ZORIAL DF preplant incorporated, as indicated above, at one half the recommended rate. Apply the other half preemergence surface as recommended above.

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SOYBEAN INFORMATION

Do not use in soybeans in West Texas or Southwest Oklahoma.

Do not use when the soil type in sandy, loamy sand, or sandy loam.

Do not use the PPI treatment in soybeans unless as part of the split application treatment. Soybeans should be planted to a depth of 1-2 inches and soil firmly packed above and around the seed bed.

BROADCAST RATES IN POUNDS OF ZORIAL DF PER ACRE:

		Spl	Split	
SOIL TYPE	PRE	ppi	pre	
loam, silty loam, silt sandy clay loam, sandy clay	1.9	.95	• 95	
clay loam, silty clay loam, silty clay, clay	2.5	1,25	1.25	

ZORIAL DF COMBINATIONS IN SCYBEANS

ZORIAL DF plus Sencor® or Lexone® Tank Mix This combination is recommended for improved control of cocklebur, morningglory, hemp sesbania, common ragweed and Venice mallow.

Apply a tank mix of ZORIAL DF plus Sencor or Lexone preemergence surface at the rates per acre (broadcast) recommended in the following table. These rates represent 1/2 the normal ZORIAL DF rate and 1/2 to 3/4 the normal metribuzin rate. Apply using 10-20 gallons of water per acre.

		Less than 2% Organic Matter	2-4% Organic Matter	
Soil Type	Zorial DF	Sencor or Lexone 50WP*	Sencor or Lexone 50 WP*	
Medium Fine Mississippi Delta Fine	0.95 lb. 1.25 lb. 1.25 lb.	0.375-0.56 lb. 0.50 -0.75 lb. 0.75 -1.125 lb.	0.50-0.75 1b. 0.50-0.75 1b. 0.75-1.125 1b.	

^{*}When using Sencor 4 or Lexone 4F substitute pints for pounds (1 pint equals 1 pound).

When using Sencor DF or Lexone DF, multiply pounds 50WP by 0.67. Refer to the ZORIAL DF and Sencor or Lexone labels for further directions and precautions.



ZORIAL DF plus Lasso@ Tank Mix

Use 1/2 rate of ZORIAL DF recommended on its label and 1/2 to 3/4 the rate of Lasso recommended on its label. Apply preemergence surface in the minimum amount of water specified on the label of the combination partner.

Before applying this tank mix, read and carefully observe the cautionary statements and all other information appearing on the product labels.

COTTON INFORMATION

BROADCAST RATES IN POUNDS OF ZORIAL DF PER ACRE:

			Split	
SOIL TYPE	<u>PPI</u>	PRE	pp1	<u>pre</u>
sandy, loamy sand sandy loam	1.25	1.25	.625	.625
Southeastern coastal plains (Alabama and Georgia or	** aly)*	1.9	•95	.95
loam, silty loam, silt, sandy clay loam, sandy clay	1.9	1.9	.95	.95
clay loam, silty clay loam, silty clay, clay	2.5	2.5	1.25	1.25

^{*} For improved control of hard to control weeds like pigweed, cocklebur and tropic croton.

West Texas and Southwest Oklahoma Only: Prior to application of ZORIAL DF, completely destroy the seed beds of the previous year by "cross-discing." Apply ZORIAL DF PPI only. To prevent removal of the herbicide application by wind, immediate incorporation is recommended. Soybeans can be planted as a replacement crop 45 days after the first planting of cotton. Do not plant peanuts as a replacement crop. Do not use ZORIAL DF on furrow planted cotton or on glandless cotton varieties. Do not use on sand or loamy sand (soils with greater than 70% sand content).

ZORIAL DF COMBINATIONS IN COTTON

ZORIAL DF PLUS COTORAN® 80W OVERLAY OR TANK MIX

This combination is recommended for improved control of cocklebur and morningglory.

^{**}Do not use full rate PPI on COASTAL PLAINS SOILS.

Overlay: Apply 1/2 to the full rate of ZORIAL DF ppi as recommended on its label. Apply 1/2 to the full rate of COTORAN 80WP as a preemergence overlay as recommended on its label.

Tank Mix: Apply 1/2 the recommended rate of ZORIAL DF ppi as directed for the ZORIAL SPLIT, and apply a tank mix of the remaining 1/2 rate of ZORIAL DF plus 1/2 to the full recommended rate of COTORAN 80W as a preemergence overlay in 20 gallons of water per acre. Or apply a tank mix of 1/2 to the full recommended rate of ZORIAL DF plus 1/2 to the full recommended rate of COTORAN 80W as a preemergence treatment in 20 gallons of water per acre.

SOUTHEASTERN COASTAL PLAINS SOILS (Alabama and Georgia only): Apply ZORIAL DF at .625 lbs. ppi followed by .625 lbs. plus 1/2 the full rate of COTORAN 80WP as a preemergence overlay as recommended on its label.

Refer to the ZORIAL and COTORAN labels for further directions and precautions.

Band Treatment: When applying a band treatment of ZORIAL DF the following formula may be used to calculate the amount per acre:

Band width in inches X Rate in lbs. per acre - Pounds per acre broadcast treatment for band treatment

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at any approved waste disposal facility.

Container Disposal: Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Lasso is a trademark of Monsanto Co.

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