

ACCEPTED OCT 8 1982 FOR CONTROL OF GRASS AND BROADLEAF WEEDS IN COTTON AND SOYBEANS EPA Reg. No. 11273-13 zorial®80WP HERBICIDE

ACTIVE INGREDIENT:
 norflurazon [4-chloro-5-(methylamino)-2-(alpha,
 alpha, alpha-trifluoro-m-tolyl)-3(2H)-pyridazinone]... 80%
 INERT INGREDIENTS:..... 20%
 100%

KEEP 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: Sandoz, Inc. makes no warranty, expressed or implied, including the warranty 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, Illinois, North Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Texas, and Virginia.

NET 5 POUNDS

SANDOZ, Inc., Crop Protection
 480 Camino Del Rio So., San Diego, California 92108

WEEDS CONTROLLED

Zorial 80 WP Herbicide at recommended rates is effective for:

A. Controlling the following weeds in cotton or soybeans:

- | | |
|-------------------------|------------------------|
| Barnyardgrass | Carpetweed |
| Crabgrass | Cocklebur |
| Foxtail | Florida Pusley |
| Goosegrass | Morningglory |
| Signalgrass | Pennsylvania Smartweed |
| Panicum spp. | Pigweeds |
| Johnsongrass (seedling) | Prickly Sida |
| | Purslane |
| | Sicklepod |
| | Spotted Spurge |
| | Spurred Anoda |
| | Velvetleaf |

1 ZORIAL SPLIT in cotton only

B. Suppressing the following weeds in cotton or soybeans:

- | | |
|------------------------|------------------|
| Bernudagrass | Cocklebur |
| Johnsongrass (rhizome) | Hemp Sesbania |
| Nutsedge | Morningglory |
| | Ragweed |
| | Other Smartweeds |

EPA Reg. No. 11273-13

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

GENERAL INFORMATION

Zorial 80WP is a herbicide for control of certain grasses and broadleaf weeds in cotton and soybeans. Apply Zorial 80WP before weeds emerge. Zorial 80WP 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. Zorial when applied ppi or in a split application will provide adequate control of all specified annual grasses; therefore, a preemergence DNA-type herbicide is not required.

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

Do not use in soybeans when the soil type is sand, 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.

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

Peanuts can be planted as a replacement crop 30 days after Zorial 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 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 80 WP application, treated acreage may only be rotated to cotton, soybeans, and peanuts.

COMPATIBILITY: Zorial has been found compatible with those DNA-type herbicides registered for use in cotton and soybeans and with metribuzin when used in soybeans. Zorial is also compatible with soil insecticides and seed treatments commonly used in cotton and soybeans.

CROP SAFETY: If the cotton or soybean plant is stressed during early development, application of Zorial 80WP at the label rate may result in temporary bleaching or chlorosis of the leaves from which the plant will recover.

APPLICATION DIRECTIONS

Ground Application: 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 30 mesh or larger.

Aerial Application: Apply the recommended rate of Zorial in 5 or more gallons of water per acre. To minimize drift, use Zorial with a drift control agent. 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 80WP at the recommended rate in 10-20 gallons of water per acre. Apply from 30 days to just prior to planting and 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 80WP at the recommended rate per acre in 10-20 gallons of water per acre at the time of planting and preemergence to weeds.

Split application - THE ZORIAL SPLIT: Apply Zorial 80 WP preplant incorporated, as indicated above, at one half the recommended rate. Apply the other half preemergence surface as recommended above.

Broadcast rates in pounds of Zorial 80WP per acre:

SOIL TYPE	PPI ^{2/}		Split	
	PPI	PRE	ppi	pre
sand, loamy sand	1.25	1.25	.625	.625
sandy loam				
loam, silty loam	1.9	1.9	.95	.95
silt, sandy clay loam				
sandy clay, clay	2.5	2.5	1.25	1.25
loam, silty clay				
loam, silty clay, clay				

^{2/} Cotton only

Band Treatment: When applying a band treatment of Zorial 80WP the following formula may be used to calculate the amount per acre:

$$\frac{\text{Seed width in inches} \times \text{Rate in lbs per acre}}{\text{Row width in inches}} = \text{Pounds per acre for band treatment}$$

approved for use on growing crops. June 1 or 2 samples OK

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MIXING INSTRUCTIONS: Clean and calibrate the sprayer. Pre-mix the proper amount of Zorial 80WP with a small amount of water. Add this to the spray tank already filled with 3/4 of the required volume of the water. Maintain agitation while filling and spraying. If a by-pass line is used, discharge at the bottom of the tank to minimize foaming.

Do not allow Zorial 80WP spray mixture to remain in the spray tank overnight because settling could occur and resuspension would be difficult.

STORAGE AND DISPOSAL

Storage: Do not store near or contaminate feed or foodstuffs.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by state and local authorities.