21 1 1993

FH 03 55447-77

Mr. Jonathan E. Bryant Sandoz Agro, Inc. 1300 East Touhy Avenue Des Plaines, IL 60018

Dear Ar. Bryant:

Subject: Zorial[®] Rapid 80 EPA Registration No. 55947-77 Application Dated October 27, 1992, Revision of A.I. Label Statement and Directions for Use Revised To Reflect Geographic Areas Described, Application Dated December 16, 1992, Zorial Rapid 80 Supplemental Labeling, For Cotton Use in Arizona

The subject proposed amended labeling has been review and is acceptable under the Federal Insecticide, Fungicide and kommunicide Act as amended, provided that you:

o Submit five (5) printed copies of the final printed labeling before releasing the product for shipment.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

stamped copies of the labeling are enclosed for your records.

Sincerely ycar,

Joanne I. Mffler Froduct manager (23) Fungicide/Herbicide Branch Registration Division (H-7505C)

Enclosure

E.Wilson: Diskette # 0007b: 12-18-91

BEST AVAILABLE COPY

FH.2=2 55711-71

ZORIAL RAPID 80

Supplemental Labeling

For cotton use in Arizona

EPA Reg. No. 55947-77

All label restrictions and Directions for use of ZORIAL RAPID 80 in Arizona apply.

Directions for Use

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

Important

j

)

Before using this product, read and carefully observe all applicable directions, restrictions, and precautionary statements on the EPA-registered container label and the Directions for Use booklet accompanying the ZORIAL RAPID 80 container.

Application Directions

ZORIAL RAPID 80 may be applied as part of a preplant incorporated (PPI) program for added suppression of nutsedge and morningglory. Do not apply ZORIAL RAPID 80 as a preemergence or spilt application.

Shallow incorporation to a depth of 1-2" is required. Seed placement must be below incorporation zone.

ZORIAL RAPID 80 can be tank mixed with CAPAROL 4L, Treflan on Prowl as part of a PPI program. Follow label of tank mix herbicide for specific rate recommendations, timing and use precautions.

Failure to observe these directions may result in temporary whitening of cotton or stand thinning. In Arizona, treated acreage must only be rotated to cotton.

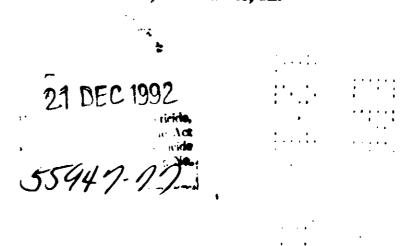
.).J. 30

BROADCAST RATES IN POUNDS OF ZORIAL RAPID 80 PER ACRE

<u>SOIL TEXTURE</u> FINE	<u>PPI</u>
clay loam, silty clay loam, silty	
clay, clay MEDIUM	1.25
loam, silty loam silt, sandy clay	
loam, sandy clay COURSE	0.95
sand, loamy sand, sandy loam	0.625

This labeling must be in the possession of the user at the time of application

Sandoz Agro., Inc. ZORIAL RAPID 80 is a registered trademark of Sandoz, Ltd. Novemeber 1992, Des Plaines, IL.



ピイ・ユニ こ ニ・アリノー

0-00

ZORIAL RAPID 80

FOR CONTROL OF GRASS AND BROADLEAF WEEDS IN COTTON AND SOYBEANS

ACTIVE INGREDIENT:

)

)

norflurazon [4-chloro-5-(methylamino)-2-(alpha, alpha, alpha-	,
trifluoro-m-toyl)-3(2H)-pyridazinone]	
INERT INGREDIENTS.	
	100%

Technical ingredient analysis by isomer specific method AM-0864. Previously 80% by method T-4295.

KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUTIONARY STATEMENTS

HAZ KDS TO HUMANS

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. In case of skin or eye contact, flush with plenty of water.

STATEMENT OF PRACTICAL TREATMENT

<u>If swallowed:</u> Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

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 apply when weather conditions favor run-off or drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

1

EPA Reg. No. 55947-77 EPA Est. No. 39578-TX-1 U.S. PAT No. 3,644,355 and 3,834,889 Net: 5 pounds ZORIAL RAPID 80 and ZORIAL SPLIT are Registered Trademarks of ; Sandoz Ltd. h EPA toughtered h EPA toughtered

21 DE-1-92

ZORIAL RAPID 80 HERBICIDE

40,00

Prosper with pesticides by using them properly! Read and follow label directions.

NOTICE: Read "LIMITED WARRANTY AND LIABILITY" on the container before buying or using. If terms are not acceptable, return at once unopened.

This labeling must be in the possession of the user at the time of the pesticide application.

PARECTIONS FOR USE: It is a violation of F deral law to use this product in a manner inconsistent with its labeling.

MADE IN THE U.S.A.

)

)

E.ºA Reg. No. 55947-77

ZORIAL K. PID 80 and ZORIAL SPLIT are Registered Trademarks of Sandoz Ltd.

SANDOZ AGRO. Inc. 1300 E. Touhy Avenue Des Plaines, Illinois 60018

I. GENERAL INFORMATION

ZORIAL RAPID 80 is a preemergence herbicide for the control of certain grass, broadleaf and sedge weeds in cotton and soybeans. ZORIAL RAPID 80 must be applied and incorporated by tillage, irrigation or rainfall before weeds germinate. Susceptible weeds are controlled after they germinate and emerge white before dying.

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

The following geographic regions are described in this label:

mid South, Southeast and Texas (East of I-35)

which includes the states of Alabama, Arkansas, North and South Carolina, Florida, Georgia, Louissiana, Mississipi, Missouri (boothheal only), Tennessee, and Texas (East of interstate I-35).

<u>Texas (West of I-35), Southwest Oklahoma and New Mexico</u> which includes the states of New Mexico, Oklahoma (West of interstate I-35 and South of interstate I-40), and Texas (West of interstate I-35),

<u>Arizona</u>

)

Applications in geographic areas not specifically mentioned should follow directions for use for mid South, Southeast and Texas (East of I-35).

A. REPLACEMENT AND ROTATIONAL CROPS

For 16 months following the last ZORIAL RAPID 80 application, treated acreage must only be rotated to cotton, soybeans or peanuts. In Arizona, treated acreage must only be rotated to cotton. Visual symptoms of injury (loss of pigment [whitening] in the leaf veins) and stand reduction may occur in rotational crops of soybeans or peanuts in Texas (West of I-35), Southwest Oklahoma and New Mexico planted within 16 months following the last ZORIAL RAPID 80 application.

ZORIAL RAPID 80 treated acreage may be planted to a cover crop to control soil erosion. Cover crops should be plowed under and not grazed or harvested for 16 months following the last application of ZORIAL RAPID 80. Small grain cover crops should be broadcast planted rather than drilled, to reduce risk of injury.

Peanuts can be planted as a replacement crop (e.g. following hail damage) 30 days after the last ZORIAL RAPID 80 application. Soybeans can be planted as a replacement crop 45 days after the last ZORIAL RAPID 80 application. In areas of the mid South, Southeast and Texas (East of I-35), a light reworking of the soil is recommended to remove existing plant material and maintain herbicidal activity. Do not graze replacement peanut fields with livestock within ten weeks following planting. Multiple or sequential applications can be made in certain geographic areas, but the total quantity of ZORIAL RAPID 80 applied in a year must not exceed the broadcast rate in pounds per acre for a given soil type. Follow Special Directions for each geographic region and soil type.

لاديب

Read mixing, application and specific crop sections for additional recommendations and precautions.

B. MIXING INSTRUCTIONS

)

)

ZORIAL RAPID 80 is approved as a tank mix with other herbicides and liquid fertilizer. Herbicides approved for tank mixes with ZORIAL RAPID 80 are listed in each crop section. All tank mix products must be approved for use on the respective crop.

Predetermine the compatibility of labeled tank mixes under local conditions by mixing small proportional quantities in advance.

Amount of Herbicide to Add to One Pint of Spray Carrier
(Assuming Volume is 25 Gallons per Acre)

HERBICIDE FORMULATION	RATE PER ACRE	LEVEL TEASPOONS				
Dry	1 lb.	1.5				
Liquid	1 pt.	0.5				

If herbicide(s) do not ball-up or form flakes, sludge, gels, oily films, layers or other precipitates, then the tested spray mix is compatible. Incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent approved for agricultural use on the respective crop is recommended. Rerun the above COMPATIBILITY TEST with a suitable compatibility agent (1/4 teaspoon is equivalent to 2 pints per 100 gallons of spray carrier).

Clean and calibrate the sprayer. Add ZORIAL RAPID 80 to the spray tank already filled with 1/4 the required volume of the water. This will eliminate or minimize foaming. 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 RAPID 80 spray mixture to remain in the spray tank overnight because settling could occur and resuspension would be difficult.

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

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

1. Wettable powders and water dispersible granules. Wettable powders should be premixed in a small amount of water. Water dispersible granules should be added during filling. Allow both to disperse before other products are added. The order of addition is not important.

70640

2. Flowable liquids.

3. Emulsifiable concentrates.

4. Surfactants.

)

)

NOTE: ZORIAL RAPID 80 is not compatible with Treflan M.T.F. In addition, ZORIAL RAPID 80 may not always be compatible with other formulations of DNA herbicides. <u>Always</u> predetermine tank mix compatibility by mixing small proportional quantities in a quart jar or other small container. If after vigorous shaking there are large flakes, gel, sludge, or other signs of incompatibility, do <u>not</u> spray the combination. Always follow the order of addition given in the mixing instructions section of this label.

C. APPLICATION EQUIPMENT

<u>Ground Application</u>: Apply the recommended rate of ZORIAL RAPID 80 in 10 or more 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 tips or equivalent for band applications. Use screen size 50 mesh or larger.

Be sure to calculate the correct amount of product per acre for band applications. Use the following formulas to determine the appropriate rate and volume per treated acre needed for band applications:

Band Width in Inches Row Width in inches	x	Broadcast Rate per treated acre	= Band Rate per planted acre
Band Width <u>in Inches</u> Row Width	x	Broadcast Volume per treated acre	 Band Volume per planted acre

in inches

<u>Aerial Application:</u> Apply the recommended rate of ZORIAL RAPID 80 in 5 or more gallons of water per acre. To minimize drift, use ZORIAL RAPID 80 with a drift control agent such as Nalco-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.

R. HAN

II. GENERAL COTTON AND SOYBEAN DIRECTIONS

Do not graze or feed cotton forage. Do not graze or harvest soybean forage or hay within 90 days of last ZORIAL RAPID 80 application.

LOCATION OF USE

ZORIAL RAPID 80 can be used for weed control in soybeans in the states of Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. ZORIAL RAPID 80 can be used for weed control in all cotton producing states except California.

A. APPLICATION INFORMATION

Mid South, Southeast and Texas (East of I-35)

ZORIAL RAPID 80 can be applied preplant incorporated, preemergence surface, or as a split application in areas with 35 inches or more annual rainfall. In areas with less than 35 inches rainfall, apply only as a preplant incorporated or split application unless irrigation is available for incorporation. ZORIAL RAPID 80 may be used in conventional or conservation (i.e. no-till, reduced till) tillage systems.

Texas (West of I-35), Southwest Oklahoma and New Mexico

ZORIAL RAPID 80 may be used in conventional or conservation tillage cotton systems only in areas with not more than 60% sand. ZORIAL RAPID 80 should only be applied as a preemergence application as part of a program in sequence with Prowl or Probe, or in combination with Caparol 4L

Arizona

)

ZORIAL RAPID 80 may be applied only as a <u>preplant incorporated</u> application. Light incorporation is required.

General Information

<u>Preplant Incorporated Application (PPI)</u>; Apply ZORIAL RAPID 80 at the recommended rate prior to planting. Incorporate within one week after application and not deeper than 2-3 inches.

<u>Preemergence Surface Application (PRE)</u>: Apply ZORIAL RAPID 80 at the recommended rate at the time of planting and preemergence to weeds. Do not apply

when crop is at or near emergence. Emerged weeds must be controlled by tillage prior to application or tank mixing with a postemergence herbicide such as Gramoxone or Roundup.

Split Application - THE ZORIAL SPLIT TA: First apply one half of the ZORIAL RAPID 80 rate preplant incorporated, then apply the remaining half of the ZORIAL RAPID 80 rate preemergence surface as recommended above.

The soil surface should be free of clods and existing weeds prior to application. Use tillage or a postemergence herbicide to control emerged weeds.

If replanting of cotton or soybeans is necessary, a light reworking of the topsoil will retain the herbicidal activity of ZORIAL RAPID 80.

<u>Crop Safety:</u> If the cotton or soybean plant is stressed during early development, application of ZORIAL RAPID 80 at the label rate may result in temporary bleaching or chlorosis of the leaves from which the plant will recover. Do not apply in areas with poor drainage.

WEEDS CONTROLLED

J

ZORIAL RAPID 80 Herbicide at recommended rates is effective for:

Controlling the following weeds:

Anoda, Spurred (Cottonweed) Barnyardgrass Carpetweed Crabgrass Pusley, Florida Croton, Tropic Foxtails Goosegrass¹ Johnsongrass (seedling) Panicum spp. Pigweeds Purslane Sida, Prickly Signalgrass Velvetleaf Anoda cristata Echinochloa crus-galli Mullugo verticillata Digitaria spp. Richardia scabra Croton glandulosus Setaria spp. Eleusine indica Sorghum halepense Panicum spp. Amaranthus spp. Portulaca oleracea Sida spinosa Brachiaria platyphylla Abutilon theophrasti

10000

Suppressing the following weeds: Beggarweed, Florida Bermudagrass Cocklebur, Common Johnsongrass (rhizome) Kochia Mallow, Venice Morningglory Nutsedge (Yellow and Purple) Ragweed, Common Sage, Lanceleaf (Mintweed) Senna, Coffee Sesbania, Hemp Sicklepod Smartweed, Pennsylvania Spurge, Spotted Thistle, Russian 1. Including DNA resistant goosegrass.

}

)

Desmodium tortuosum Cynodan dactylon Xanthium strumarium Sorghum halepense Kochia scoparia Hibiscus trionum Ipomoea spp. Cyperus esculentus <u>C. rotundus</u> Ambrosia artemisiifolia Salvia retroflexa Cassia occidentalis Sesbania exaltata Cassia obtusifolia Polygonum pensylvanicum Euphorbia maculata Salsola iberica

III. SPECIFIC COTTON DIRECTIONS

)

The specific Directions for Use of ZORIAL RAPID 80 are given below for each geographic region of use (see Section I. for description of geographic regions). Select the rate of ZORIAL RAPID 80 to be used based on soil texture and application type within each geographic region from the sections listed below. Follow the Special Direction sections for specific recommendations and precautions.

110+00

Special Directions for the Mid South, Southeast, and Texas (East of I-35).

SOIL TEXTURE	PPI	PRE	SPLIT	
			PPI	PRE
clay loam, silty clay loam, silty clay, clay	2.5	2.5	1.25	1.25
loam, silty loam, silt, sandy clay loam, sandy clay	1.9	1.9	0.95	0.95
Coastal Plains Soils (Southeastern States)	1.253	1.9 ²	0.95 ²	0.95 ²
sand, loamy sand, sandy loam	1.25	1.25	0.625	0.625

BROADCAST RATES IN POUNDS OF ZORIAL RAPID 80 PER ACRE¹

1. Rates shown are for broadcast or treated acres. Be sure to adjust amount of product per planted acre if using a band application (See section I-C).

2. Higher recommended rates are listed for improved control on coarse textured Coastal Plains soils of Southeastern States.

3. Do not use rates higher than 1.25 lbs. PPI on coarse textured Coastal Plains Soils of Southeast.

Special Directions for Texas (West of I-35), Southwest Oklahoma and New Mexico:

12 2,00

SOIL TEXTURE	PRE
FINE	
clay loam, silty clay loam, silty clay, clay	0.6-1.0 ²
MEDIUM	
loam, silty loam silt, sandy clay loam, sandy clay	0.6-1.0 ²
COARSE	
sandy loam	0.6

}

)

BROADCAST RATES IN POUNDS OF ZORIAL RAPID 80 PER ACRE¹

- 1. Rates shown are for broadcast or treated acres. Be sure to adjust amount of product per planted acre when using a band application (See section I-C).
- 2. Applications must be made on a 10 to 14" band for ZORIAL RAPID 80 rates above 0.6 lbs/A. The 0.6 lb/A rate may be applied as a banded or broadcast application.

Visual symptoms of injury (loss of pigment [whitening] in the leaf veins) and stand reduction may occur in rotational crops of soybeans or peanuts in Texas (West of I-35), Southwest Oklahoma and New Mexico planted within 16 months following the last ZORIAL RAPID 80 application.

At the recommended rates for this geographic region, ZORIAL RAPID 80 should be applied preemergence in a tank mix with approved herbicides in order to give an adequate spectrum of weed control. ZORIAL RAPID 80 should be applied alone only at the 1.0 lb/A rate and only as a sequential overlay following a PPI treatment of Prowl or Treflan. See below for tank mix options.

Shallow incorporation with finger tines on the planter (scratch incorporation) at planting is recommended for all banded preemergence ZORIAL RAPID 80 applications.

Rotate only to cotton, soybean or peanuts within the first 16 months after the last application.

Do not use on soil with greater than 60% sand content. Do not use on cotton planted in furrow bottom. Do not use or on glandless cotton varieties. Do not use in Gaines County, Texas.

Earbo

Special Directions for Arizona

ZORIAL RAPID 80 may be applied in a preplant incorporated (PPI) program for added suppression of nutsedge and morningglory. Do not apply ZORIAL RAPID 80 as a preemergence or spilt application.

BROADCAST RATES IN POUNDS OF ZORJAL RAPID 80 PER ACRE

SOIL TEXTURE	PPI
FINE	
clay loam, silty clay loam, silty clay, clay	1.25
MEDIUM	
loam, silty loam silt, sandy clay loam, sandy clay	0.95
COURSE	
sand, loamy sand, sandy loam	0.625

)

)

Shallow incorporation to a depth of 1-2" is required. Seed placement must be below incorporation zone.

ZORIAL RAPID 80 can be tank mixed with CAPAROL 4L, Treflan or Prowl as part of a PPI program. Follow labels of tank mix herbicide for specific rate recommendations, timing and use precautions.

Failure to observe these directions may result in temporary whitening of cotton or stand thinning.

In Arizona, treated acreage must only be rotated to cotton.

Special Directions for Conservation Tillage Programs:

)

)

ZORIAL RAPID 80 may oe used in conservation tillage programs such as no till, minimum till or reduced till. The following additional directions should be followed to avoid crop injury and obtain optimum weed control with ZORIAL RAPID 80 in conservation tillage programs:

14 30

- Do not use in Texas (West of I-35), southwest Oklahoma and New Mexico in conservation tillage programs where the soil is greater than 60% sand.
- * Use a postemergence herbicide such as Gramoxone or Roundup prior to application of ZORIAL RAPID 80, or tankmix with ZORIAL RAPID 80 with these products, to control emerged weeds.
- * Any cover crop must be killed using an appropriate postemergence herbicide prior to planting. Poor weed control may result if the cover crop is incompletely killed or excessive plant debris is present when ZORIAL RAPID 80 is applied.
- * Cotton seed should be planted at least 1" deep using a planter having a bubble or ripple type coulter with a straight leading edge and press wheel (a fluted coulter should not be used). The seed must be covered with at least 1" of soil following the planter press wheel. Avoid situation where water will pond over the seed row. Crop injury will occur if seed is not adequately covered with soil or water ponds over the seed row.

IV. ZORIAL RAPID 80 COMBINATIONS IN COTTON

ZORIAL RAPID 80 herbicide tank mix or overlay combinations approved for cottor are Bladex, fluometuron (Cotoran, Meturon), Gramoxone, Lorox, Probe, Prowl, Roundup and trifluralin (Treflan, Trilin), Caparol. Read and follow mixing instructions listed in section I-B. Follow labels of tank mix herbicide for specific rate recommendations, timing and use precautions.

150400

ZORIAL RAPID 80 plus PROBE or Caparol 4L Tank Mix:

)

)

Special Preemergence Tankmix for Improved Suppression of Annual Morningglory, Lanceleaf Sage, Prairie Sunflower, Annual Black Nightshade, and Nutsedge.

Areas of Texas (West of I-35), Southwest Oklahoma, and New Mexico.

Observe all precautions listed under Special Directions for Areas of Texas (West of I-35), southwest Oklahoma, and New Mexico. Do not use ZORIAL RAPID 80 tank mix as a PPI or split application. Do not apply in Gaines County, Texas.

SOIL TEXTURE ²	ZORIAL RAPID 80 (Ibs/A)	+	PROBE Herbicide ² (lbs/A)	ZORIAL RAPID 80 (lbs/A)	+	CAPAROL 4L ³ (pts/A)
FINE					_	
silty clay loam, clay loam, silty clay, and clay	0.6	+	1.5 - 2.0	0.6 - 1.0	+	2.4
MEDIUM						
loam, silt loam, silt, sandy clay loam, and sandy clay	0.6	+	1.5	0.6 - 1.0	+	2.4
COARSE					_	
sand and loamy sand	Do	not	use	Do	not	use
sandy loam	0.6	+	15	Do not use		use

ZORIAL RAPID 80 BROADCAST TANK MIX RATE PER TREATED ACRE¹

- 1. Applications must be made on a 10 to 14" band for ZORIAL RAPID 80 rates above 0.6 lbs/A. The 0.6 lb/A rate may be applied as a banded or broadcast application. Rates shown are for tank mix broadcast (treated) acres. Be sure to adjust amount of product per planted acre when using a band application (See section I-C).
- 2. PROBE herbicide is not recommended for soils containing more than 4% organic matter. Do Not Use ZORIAL RAPID 80 tank mix with PROBE Herbicide on soils containing more than 60% sand.

3. Do Not Use ZORIAL RAPID 80 tank mix with CAPAROL 4L on soils containing more than 50% sand.

These combinations may be tank mixed with Prowl and applied preemergence, or applied as a sequential overlay following a trifluralin or Prowl application. Shallow incorporation with finger times on the planter (scratch incorporation) at planting is recommended for all banded preemergence Zorial Herbicide tankmix combinations.

11207-20

Areas of the Mid South, Southeast, and Texas (East of I-35) and Arizona.

)

)

ZORIAL RAPID 80 may also be tank mixed with Caparol in areas of the Mid South, Southeast and Texas (East of I-35), and Arizona. Note: Caparol has special restrictions as regards soil type. Carefully read and observe all the Directions for Use, precautions, limitations on the Caparol label.

V. SPECIFIC SOYBEAN DIRECTIONS

)

)

Soybeans should be planted to a depth of 1-2 inches and soil firraty packed above and around the seed bed.

Do not use in sand, loamy sand, or sandy loam soils, except in the Coastal Plains area of the Southeast (Do not use PPI or split treatments for soybeans in the Coastal Plains area). In other areas, do not use the PPI treatment for soybeans unless as part of the split application treatment. Do not use in soybeans in Texas (West of I-35) or southwest Oklahoma or New Mexico.

SOIL TEXTURE	PRE ²	SPLIT		
		ppi	pre	
clay loam, silty clay loam, silty clay, clay	2.5	1.25	1.25	
loam, silty loam, silt, sandy clay loam, sandy clay	1.9	0.95	0.95	
Coastal Plains Soils (Southeastern States)	1.25	Do not use		

BROADCAST RATES IN POUNDS OF ZORIAL RAPID 80 PER ACRE¹

1. Rates shown are for broadcast or treated acres. Be sure to adjust amount of product per planted acre if using a band application (See section I-C).

Tank mix or overlay combinations may provide improved control of hard to control broadleaf weeds. See combination sections for specific recommendations.

VI. ZORIAL RAPID 80 COMBINATIONS IN SOYBEANS

Approved ZORIAL RAPID 80 tank mix or overlay combinations for soybeans include acifluorfen (Blazer, Tackle), alachlor (Lasso), Basagran, Canopy, Classic, Dual, Gramoxone, Lorox, metribuzin (Lexone, Sencor), Prowl, Roundup, Scepter, Scornand trifluralin (Treflan, Trilin). See tank mix product label for recommended rate, application timing and precautions. Read and follow mixing instructions in section I-B.

Special recommendations for certain ZORIAL RAPID 80 combinations are as follows:

180400

ZORIAL RAPID 80 plus Scepter or Canopy Preemergence Tank Mix

These combinations can be used alone PRE or as part of the SPLIT application. They are especially recommended for improved control of cocklebur, annual morningglories, hemp sesbania, sicklepod, smartweeds and common ragweed.

Apply a tankmix of ZORIAL R^PID 80 plus Scepter or Canopy preemergence at the rate per treated acre listed in the following table. Refer to respective Scepter or Canopy label for specific directions, rates and restrictions.

SOIL TEXTURE	ZORIAL RAPID 80 Ibs/Acre	Scepter pints/Acre	Canopy ounces/ Acre	
Mississippi Delta only (fine textured soil)	1.25 - 1.50'- 1.90	See Scepter or Canopy for		
clay loam, silty clay loam, silty clay, clay	1.25 - 1.50 - 1.90			
loam, silty loam, silt, sandy clay loam, sandy clay	1.25 - 1.50			
Coastal Plains Soils (Coarse Texture Soils-SE)	1.25	specific rates		

Broadcast Product Use Rates

* optimum rate

)

)

ZORIAL RAPID 80 Preemergence plus Scepter or Classic Postemergence Overlay

Postemergence overlay treatments of Classic or Scepter following ZORIAL RAI'ID 80 preemergence are recommended for increased control of problem broadleaf weeds such as cocklebur and annual

morningglories. Apply ZORIAL RAPID 80 preemergence or as a Split application at the combination rates listed above. Apply Scepter or Classic at the proper rate and postemergence timing as directed by its respective use directions. Refer to overlay product label for specific use directions and restrictions.

ZORIAL RAPID 80 plus Sencor or Lexone Preemergence Tank Mix

This combination is recommended for improved control of hemp sesbania, common ragweed and Venice mallow and other broadleaf weeds.

17.425

Apply a tank mix of ZORIAL RAPID 80 plus Sencor or Lexone preemergence surface at the rates per acre (broadcast) recommended in the following table. These rates represent optimum ZORIAL RAPID 80 rates and 1/2 of the normal metribuzin rate. Use the metribuzin use rates (grower use rates) most applicable to local soil type and growing conditions.

SOIL TEXTURE	ZORIAL RAPID 80 lbs/Acre	Sencor DF/ Lexone DF lbs/acre		ne DF
		less than 2% OM	2-4% OM	over 4% OM
Mississippi Delta only (fine textured soil)	1.25 - 1.50 - 1.90	0.50 - 1.0	0.58-1.17	0.665- 1.33
clay lom, silty clay loam, silty clay, clay	1.25 - 1.50°- 1.90	0.33-0.83	0.425-1.0	0.50-1.17
loam, silty loam, silt, sandy clay loam, sandy clay	1.25 - 1.50	0.25-0.66	0.33-0.83	n.425-1.0
Coastal Plains Soils (Coarse Texture Soils-SE)	1.25	Dc not	0.25-0.50	0.33-0.66

• optimum rate

)

)

When using Sencor 4 or Lexone 4L convert to equivalent rates. All a amount of Sencor DF or Lexone DF equals two thirds the amount of Sencor 4 or Lexone 4L. For example, one pint of Sencor 4 or Lexone 4L equals 2/3 pound Sencor DF or Lexone DF.

Refer to the ZORIAL RAPID 80 and Sencor or Lexone labels for further direction: and precautions.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food or feed by storage or disposal. Pesticide Disposal: Pesticide Vastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If waste cannot be disposed of by use of label instructions, contact your state pesticide or environmental control agency or hazardous waste representative at the nearest EPA Region Office for guidance. Container Disposal: Completely empty and 'riple rinse 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.

J-J 1710

Prowl and Scepter are registered trademarks of American Cyanamid. Basagran, Blazer and Storm are registered trademarks of BASF Wyandotte Corp. Cotoran and Dual are registered trademarks of Ciba-Geigy. Bladex, Canopy, Classic, Lorox and Lexone are registered trademarks of E. I. DuPont de Nemours and Co. Treflan and Treflan MTF are trademarks of DowElanco. Sencor is a registered trademark of Farben Fabriken Bayer GmbH. Leverkusen. Meturon and Trilin are registered trademarks of Griffen Ag. Products Co. Gramoxone and Gramoxone Super are trademarks of ICI Americas. Lasso and Roundup are registered trademarks of Monsanto Co. Nalco-Trol is a registered trademark of Nalco Chemical Co. Probe, ZORIAL RAPID 80 and Zorial Split are trademarks of Sandoz, Ltd. Ortho X-77 is a registered trademark of Valent Chemical Co. Tackle is a registered trademark of Rhone-Poulenc.

ì

)