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10182-390

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Sandy O'Bryan  
Zeneca Ag Products  
1800 Concord Pike  
Wilmington, DE 19897

MAR 1 1995

Dear Ms. O'Bryan:

Subject: Revised Labeling - Revised Use Regions  
Flexstar Herbicide  
EPA Registration No. 10182-390  
Your Submission Dated February 24, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

1) We have noted that the statement "Prolonged or repeated skin contact may cause allergic reactions in some individuals" appears twice in the Precautionary Statements. At your option, one of the repeated statements may be deleted.

2) Revise the container disposal statement for glass containers to read "Glass Containers: Triple rinse (or equivalent); then dispose of in a sanitary landfill or by other approved state and local procedures."

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

ID: 305-7546: FHB/PM23		CONCURRENCES					
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	3/1/95						

**FLEXSTAR™**  
**Herbicide**

For Postemergence Control of Broadleaf Weeds in Soybeans

**ACTIVE INGREDIENT:**

Sodium salt of fomesafen

5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide\* ..... 12.8%

**INERT INGREDIENTS** ..... 87.2%

**TOTAL** ..... 100.0%

\*Equivalent to 12.2% fomesafen or 1 pound fomesafen active ingredient per gallon.

EPA Reg. No. 10182-390  
EPA Est. No.

Net Contents:

**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.)

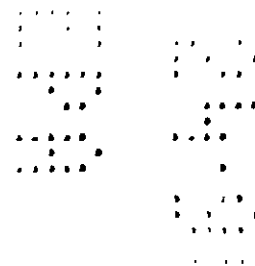
**SEE SIDE PANEL FOR STATEMENT OF PRACTICAL TREATMENT  
AND PRECAUTIONARY STATEMENTS**

Made in U.S.A.  
ZENECA Ag Products  
ZENECA Inc.  
Wilmington, DE 19897

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAR 1 1995

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
10182-390



## STATEMENT OF PRACTICAL TREATMENT

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

**IF INHALED:** Removed victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Call a physician if irritation persists.

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**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.**

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

This product contains fomesafen which has been determined to cause tumors in laboratory animals (mice). Risks can be reduced by closely following use directions and precautions and by wearing the protective clothing specified elsewhere on this label.

**CAUSES SKIN IRRITATION. HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.** Do not get on skin or on clothing. Avoid breathing vapor or spray mist. Avoid contact with eyes. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton.
- Chemical resistant footwear plus socks.
- Chemical resistant apron when cleaning equipment, mixing or loading.

**BEST AVAILABLE COPY**

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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.
  - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- 

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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 washwaters. Do not apply when weather conditions favor drift from target area.

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**CONDITIONS OF SALE  
AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to booklet attached to container for Complete Directions for Use.

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.

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### 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 (i.e., attached booklet) under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

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### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**STORAGE:** Store above 45°F in original containers only. If product solidifies, return to room temperature and agitate to reconstitute. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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.

#### CONTAINER DISPOSAL:

**Metal Containers:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Plastic Containers:** Triple rinse (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. If burned, stay out of smoke.

**Glass Containers:** Triple rinse (or equivalent); then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

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**FOR BULK AND MINI-BULK CONTAINERS:**

**Container Disposal:** Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

**Container Precautions:** Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

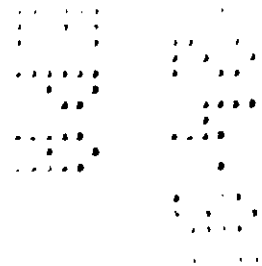
**REFILL ONLY WITH FLEXSTAR .** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FLEXSTAR will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

FLEXSTAR™ is a trademark of a ZENECA Group Company.



**FLEXSTAR™  
Herbicide**

For Postemergence Control of Broadleaf Weeds in Soybeans

**COMPLETE DIRECTIONS FOR USE**

**CONDITIONS OF SALE  
AND LIMITATION OF WARRANTY AND LIABILITY**

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In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**



7/15/2000

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

Made in U.S.A.  
ZENECA Ag Products  
ZENECA Inc.  
Wilmington, DE 19897

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**TOTAL** . . . . . 100.0%

\*Equivalent to 12.2% fomesafen or 1 pound fomesafen active ingredient per gallon.

EPA Reg. No. 10182-390

**STATEMENT OF PRACTICAL TREATMENT**

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

**IF INHALED:** Removed victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

**IF IN EYES:** Flush with plenty of water. Call a physician if irritation persists.

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### 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.

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.
- Chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton.
- Chemical resistant footwear plus socks.

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### STORAGE AND DISPOSAL

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**FOR BULK AND MINI-BULK CONTAINERS:**

**Container Precautions:** Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH FLEXSTAR . The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FLEXSTAR will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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**GENERAL INFORMATION**

Read all label directions before using.

FLEXSTAR is a selective post emergence herbicide for control of broadleaf weeds in soybeans. Soybean plants are tolerant to FLEXSTAR when applied at recommended rates. Under certain conditions some bronzing, crinkling or spotting of soybean leaves may occur, but soybeans soon outgrow these effects and develop normally.

FLEXSTAR is effective through contact action, therefore weeds must be thoroughly covered with spray. Optimum weed control is achieved when young actively growing weeds are treated that are not under stress from moisture, temperature, low soil fertility, mechanical or chemical injury.

Secondary flushes of certain weeds may be controlled by soil residual activity if rainfall occurs shortly after application. The extent of soil activity is dependent upon soil type, ground cover at time of application, amount of rainfall and the rate of FLEXSTAR used.

FLEXSTAR is rainfast in 4 hours.

## APPLICATION DIRECTIONS

**TIMING:** Best control of susceptible broadleaf weeds is obtained when FLEXSTAR is applied early to actively growing weeds. This usually occurs 14 to 21 days after planting. Refer to the weed tables for specific recommendations on weed growth stages, rates, and regions.

**SPRAY ADDITIVES:** FLEXSTAR is formulated with an optimized surfactant system for herbicidal performance.

In the Northern region (see Regional Use Map), FLEXSTAR should be used with a minimum of 2.5% of liquid nitrogen (28% or similar) or a minimum of 10 lbs ammonium sulfate per 100 gallons of spray volume.

The use of FLEXSTAR with additional adjuvants, such as crop oil concentrate or nonionic surfactant can improve performance on larger and/or more difficult to control weeds or during drought stress or when spray volume exceeds 20 gallons per acre. Under certain conditions temporary crop injury may result.

**GUIDELINES FOR USING ADDITIONAL ADJUVANTS:** Only spray additives cleared for use on growing crops under 40 CFR 180.1001 may be used.

**Nonionic Surfactant (NIS)** - Use NIS containing at least 75% surface active agent at 0.25% (1/2 pint per 25 gallons) of the finished spray volume.

**Crop Oil Concentrate (COC)** - Use a nonphytotoxic COC or a once refined vegetable oil concentrate (VOC) containing 15-20% approved emulsifier at 0.5% (1 pint per 25 gallons) of finished spray volume.

**Other Adjuvants** - Adjuvants other than COC or NIS may be used providing the product meets the following criteria:

1. Contains only EPA exempt ingredients.
2. Is nonphytotoxic to the target crop.
3. Is compatible in mixture. (May be established through a jar test.)
4. Is supported locally for use with FLEXSTAR on the target crop through proven field trials and through university and extension recommendations.

**Tankmixes:** If a product tankmixed with FLEXSTAR requires a cropoil concentrate or nonionic surfactant, use the lowest recommended adjuvant rate for the tankmix product. ~~(See Tankmix Application section for further details)~~

**GROUND APPLICATION:** Use sufficient spray volume and pressure to ensure complete coverage of the target weeds. A spray volume of 10-20 gallons per acre at 30-60 psi at the nozzle tip is recommended. When weed foliage is dense, use 60 psi and a minimum of 20 gallons per acre to ensure coverage of weed foliage.

Use only hollow cone or flat fan nozzles. The sprayer must be calibrated to provide the proper volume and rate per acre. In addition, the boom and nozzle height must be adjusted to provide complete coverage of all weeds.

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**DO NOT USE FLOOD TYPE OR OTHER SPRAY NOZZLES, WHICH DELIVER COARSE, LARGE DROPLET SPRAYS.**

**DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

**BAND APPLICATIONS:** Thorough weed coverage is important for control. Best coverage is obtained with a minimum of two nozzles, one directed to each side of the planted row. Application with a single nozzle directed over the top of the row is not recommended. Cultivation of untreated areas may be needed following band applications. When making band applications and cultivating in the same operation, position nozzles in advance of the cultivation device. This will reduce dust in the spray area. Dust can intercept spray, reducing weed coverage, resulting in less than adequate weed control.

Calculate the amount of herbicide and water volume needed for band treatment by the following formulas:

$$\frac{\text{Band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{Band herbicide rate per acre}$$

$$\frac{\text{Band width in inches}}{\text{row width in inches}} \times \text{broadcast volume per acre} = \text{Band water volume per acre}$$

**AERIAL APPLICATION:** Use sufficient spray volume and pressure to ensure complete coverage of the target weeds. A minimum of 5 gallons per acre of spray mixture should be applied with a maximum of 40 PSI pressure. When broadleaf weed foliage is dense, use a minimum of 10 gallons per acre to ensure coverage of weed foliage.

When making aerial applications, care should be taken to avoid drift to crops other than soybeans or to other non-target areas. Do not spray when conditions are favorable for drift or when wind velocity exceeds 10 mph.

**CULTIVATION:** Cultivation prior to application is not recommended. Cultivation may put weeds under stress, reducing weed control. Timely cultivation 2-3 weeks after applying FLEXSTAR may assist weed control.

#### GENERAL USE PRECAUTIONS

- A maximum of 3 pints/A of FLEXSTAR herbicide may be used per season in the Southern Region ~~Region 1~~ (see Regional Use Map).
- A maximum of 3 pints/A of FLEXSTAR herbicide may be applied in alternate years in the Northern Region ~~Region 2~~ (see Regional Use Map).

~~A maximum of 2.5 pints/A of FLEXSTAR herbicide may be applied in alternate years in Region 3 (see Regional Use Map).~~

~~A maximum of 2.0 pints/A of FLEXSTAR herbicide may be applied in alternate years in Region 4 (see Regional Use Map).~~

- Do not apply FLEXSTAR or any other fomesafen containing product to any field in the Northern Region ~~Regions 2, 3 or 4~~ more than once every two years.

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- Apply FLEXSTAR herbicide before soybeans bloom.
- Thoroughly clean spray tank with water and a commercial tank cleaner before and after each use.
- FLEXSTAR herbicide should not be mixed with fertilizers or any other additive except as specified on this label or other approved ZENECA supplemental labeling.
- FLEXSTAR herbicide requires a 4-hour rain-free period for best results.
- Apply to actively growing weeds. Avoid applying FLEXSTAR to weeds or soybeans which are under stress from moisture, temperature, low soil fertility, mechanical or chemical injury, as reduced weed control and/or increased crop injury may result.
- Avoid overlapping spray swaths, as injury may occur to rotational crops.
- Avoid drift to all other crops and nontarget areas. Crops other than soybeans may be severely injured by drift.
- Do not graze treated areas or harvest for forage or hay.
- Do not apply this product through any type of irrigation system.

### ROTATIONAL CROP RESTRICTIONS

The following rotational crops may be planted after applying FLEXSTAR at recommended rates in soybeans:

<u>Crop To Be Planted</u>	<u>Minimum Rotation Interval (Months After Last FLEXSTAR Application)</u>
Small grains such as wheat, barley, rye . . . . .	4
Alfalfa, beans, corn, cotton, peas, peanuts, <del>sorghum</del> , rice . . . . .	10
To avoid crop injury do not plant sunflowers, sugar beets, <del>sorghum</del> or any other crop within . . . . .	18

Do not graze rotated small grain crops or harvest forage or straw for livestock. In the event of crop loss due to weather conditions soybeans can be replanted.

~~Sorghum may be planted back after 10 months in Region 1~~

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## FLEXSTAR IN SOYBEANS - USE RATES AND WEEDS CONTROLLED

### REFER TO MAP FOR DEFINITION OF SPECIFIED GEOGRAPHIC REGIONS

#### NORTHERN REGION

~~Northern Region~~ — Includes the following states or portion of states where FLEXSTAR herbicide may be applied: Connecticut, Delaware, Indiana, Illinois, Iowa, Kansas (all counties east of U.S. Highway 75), Kentucky, Maine, Maryland, Massachusetts, Michigan (Excluding the Upper Peninsula), Minnesota (South of Interstate 94), Missouri (All counties except for those listed in the Southern Region), Nebraska (all counties east of U.S. Highway 81), New Hampshire, New Jersey, New York, North Dakota (East of Interstate 29, South of Interstate 94), Ohio, Pennsylvania, Rhode Island, South Dakota (East of U.S. Highway 81 and Interstate 29), Vermont, Virginia, West Virginia and Wisconsin.

#### SOUTHERN REGION

~~Southern Region~~ — Includes the following states or portion of states where FLEXSTAR herbicide may be applied: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri (Counties of Butler, Dunklin, Mississippi, New Madrid, Pemiscot, Scott & Stoddard), North Carolina, Oklahoma (East of U.S. Highway 75 and East of Indian Nation Parkway), South Carolina, Tennessee, and Texas (Counties East of U.S. Highway 75 and Interstate 35, U.S. Highway 183 and 87, including all of Calhoun County).

#### REGION 1

~~REGION 1~~ - Includes the following states or portion of states where FLEXSTAR may be applied: Alabama, Arkansas, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma (east of U.S. Highway 75 and east of Indian Nation Parkway), South Carolina, Tennessee, and Texas (counties east of U.S. Highway 75 and Interstate 45, additional counties of Austin, Brazoria, Calhoun, Chambers, Colorado, Fort Bend, Harris, Jackson, Matagorda, Victoria, Waller, and Wharton).

~~(Insert Region 1 Use Map Here)~~

#### REGION 2

~~REGION 2~~ - Includes the following states where FLEXSTAR may be applied: Delaware, Kentucky, Maryland, and Virginia.

~~(Insert Region 2 Use Map Here)~~

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1996

### REGION 3

REGION 3 - Includes the following states or portion of states where FLEXSTAR may be applied: Indiana, Illinois, Iowa, Maine, Massachusetts, Missouri, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, Vermont, West Virginia, and Wisconsin (South of U.S. Highway 16 between Prairie Du Chien and Madison, and South of Interstate 9 between Madison and Milwaukee)

(Insert Region 3 Use Map Here)

### REGION 4

REGION 4 - Includes the following states or portion of states where FLEXSTAR may be applied: Kansas (all counties east of U.S. Highway 75), Michigan (all counties south of U.S. Highway 46/55), Minnesota (all counties south of U.S. Highway 212), Nebraska (all counties east of U.S. Highway 81), and Wisconsin (North of U.S. Highway 16 between Prairie Du Chien and Madison, and South of Interstate 94 from Hudson to Madison)

(Insert Region 4 Use Map Here)

REGIONAL USE MAP

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**APPLICATION RATES FOR WEED GROWTH STAGES**

Weed	FLEXSTAR Rate (Pts/A)		
	Maximum Growth Stage Controlled At		
	2 Pts/A # of True Leaves	2.5 Pts/A # of True Leaves	3 Pts/A # of True Leaves
Anoda, Spurred	--	2	2
Carpetweed	6" Diameter Size	Multi-leaf 6" Diameter	Unlimited Size
Citron (Wild Watermelon)	2	2	4
Cocklebur, Common	--	6	8
Copperleaf, Hophornbeam	2	2	4
Copperleaf, Virginia	2	2	4
Crotalaria, Showy	4	4	6
Croton, Tropic	2	2	4
Cucumber, Volunteer	4	4	6
Eclipta	2	2	4
Groundcherry, Cutleaf	2	4	6
Jimsonweed	4	6	8
Ladysthumb	2	4	6
Lambsquarters, Common	2*	2*	2*
Mexicanweed	--	2*	2
Morningglory			
Cypressvine	2 <del>4</del>	3 <del>4</del>	5 <del>6</del>
Entireleaf var.	2	3	5
Ivyleaf	2	3	5
Purple Moonflower	2	4	6
Scarlet	3	6	6
Smallflower	2	4	6
Smallwhite (pitted)	3	6	6
Tall (Common)	2	3	5
Willowleaf (Palmleaf)	3	6	6
Mustard Wild	4	6	8
Nightshade Black	2 <del>4</del>	4	4

Weed	FLEXSTAR Rate (Pts/A)		
	Maximum Growth Stage Controlled At		
	2 Pts/A # of True Leaves	2.5 Pts/A # of True Leaves	3 Pts/A # of True Leaves
Nutsedge Yellow	--	--	*
Pigweed, spp.			
Amaranth, Palmer	4	6	6
Amaranth, Spiny	--	4	4
Redroot	4	6	8
Smooth	--	4	6
Waterhemp Tall	--	4	6
Poinsettia Wild	2	4	6
Purslane Common	Multi-Leaf 6" Diameter	Multi-Leaf 6" Diameter	Multi-Leaf 8" Diameter
Pusley Florida	--	2	4
Ragweed Common	4	6	8
Ragweed Giant	4	6	8
Redweed	--	--	3*
Sesbania Hemp	6	6	12
Sicklepod	--	--	Cotyledon*
Sida Prickly	--	2	2
Smartweed Pennsylvania	4	6	6
Smellmelon	2	2	4
Spurge Prostrate	--	1" Diameter*	1" Diameter*
Spurge Spotted	--	2*	2*
Starbur Bristly	2	4	6
Velvetleaf	--	4	6
Venice Mallow	4	4	6
Witchweed	--	Multi-leaf Up to 7"	Multi-leaf Up to 10"
Yellow Rocket	2 <del>2</del>	4 <del>4</del>	6

\*Suppression Only

## SPECIAL USE DIRECTIONS FOR ADDITIONAL WEED PROBLEMS

### Suppression of Annual Grasses:

The grasses listed below may be suppressed by applications of FLEXSTAR at 2-3 pints/acre. Consult Use Rate Table for maximum rate in each region. For full-season broad-spectrum annual grass control, FUSILADE<sup>®</sup> 2000, FUSILADE<sup>®</sup> DX or FUSION<sup>™</sup> herbicide should be used alone or in tankmix with FLEXSTAR. Consult tankmix section.

Barnyardgrass  
Broadleaf Signalgrass  
Crabgrass  
Foxtail  
Giant  
Green  
Yellow  
Goosegrass  
Johnsongrass, Seedling  
Panicum, Fall  
Panicum, Texas

### Suppression of Perennial Weeds:

Use of FLEXSTAR at rates of 2 to 3 pints/acre will aid in suppressing the above-ground portions of the weeds listed below until crop canopy can assist in suppression. Perennial weeds continue to regrow from underground rootstocks even if above-ground foliage is temporarily controlled or retarded. Even though FLEXSTAR and crop competition can suppress perennial weeds for a growing season, the rootstocks will continue to live and reestablishment will occur in subsequent years.

Milkweed, Climbing  
Milkweed, Honeyvine  
Bindweed, Field  
Bindweed, Hedge

## TANKMIX AND SEQUENTIAL APPLICATIONS FOR SOYBEANS

FLEXSTAR can be used sequentially or in tankmix with one or more of the following products: FUSILADE<sup>®</sup> DX, FUSILADE<sup>®</sup> 2000, FUSION<sup>™</sup>, Select<sup>®</sup>, Assure II<sup>®</sup>, Poast<sup>®</sup>, Poast Plus<sup>™</sup>, Bugle<sup>™</sup>, Option<sup>®</sup> II, Basagran<sup>®</sup>, Classic<sup>®</sup>, Concert<sup>®</sup>, Pinnacle<sup>®</sup>, Synchrony STS<sup>®</sup>, Pursuit<sup>®</sup>, Scepter<sup>®</sup>, Scepter<sup>®</sup> OT, Galaxy<sup>™</sup>, Storm<sup>®</sup>, Cobra<sup>®</sup>, Blazer<sup>®</sup> and Butyrac<sup>®</sup>.

Under certain conditions, the mixture of FLEXSTAR with one of the above mentioned broadleaf herbicides may cause a reduction in activity of any postemergence grass herbicide in the mixture.

~~It is recommended no additional adjuvants be added to post grass herbicides plus FLEXSTAR mixtures for control of perennial grasses.~~

For sequential applications allow 2-3 days after the application of the grass herbicide before applying FLEXSTAR or FLEXSTAR mixtures. In case FLEXSTAR or the FLEXSTAR mixture is applied first apply the grass herbicide when the grass weeds begin to develop new leaves (generally around 7 days).

Always read and follow the restrictions and limitations for all products whether used alone, sequentially or in a tankmix . The most restrictive labelling of any product used applies.

### TANKMIX APPLICATION

Fill the spray tank with half the amount of required water and add the recommended amounts of FLEXSTAR, the selected tankmix herbicide, and proper rate of approved adjuvant while the agitator is running and then add the remaining quantity of water. Allow the spray mixture to agitate and recycle 5-10 minutes before application.

#### NOTE: ~~PRECAUTIONS~~

- Tankmix applications can result in increases in crop injury as compared to either product used alone.

~~It is recommended no additional adjuvants be added to FLEXSTAR plus Pinnacle or Pinnacle containing premixes.~~

~~Do not exceed 1 ounce of Butyrac per acre in mixture with FLEXSTAR.~~

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**APPENDIX**

Scientific names are listed for annual grass and broadleaf weeds referred to in the FLEXSTAR label.

COMMON NAME	SCIENTIFIC NAME
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, Spiny	<i>Amaranthus spinosus</i>
Anoda, Spurred	<i>Anoda cristata</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bindweed, Field	<i>Convolvulus arvensis</i>
Bindweed, Hedge	<i>Convolvulus sepium</i>
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>
Carpetweed	<i>Mollugo verticillata</i>
Citron (Wild Watermelon)	<i>Citrullus vulgaris</i>
Cocklebur, Common	<i>Xanthium pennsylvanicum</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryaefolia</i>
Copperleaf, Virginia	<i>Acalypha virginica</i>
Crabgrass	<i>Digitaria spp.</i>
Crotalaria, Showy	<i>Crotalaria spectabilis</i>
Croton, Tropic	<i>Croton glandulosus</i>
Cucumber, Volunteer	<i>Cucumis sativas</i>
Eclipta	<i>Eclipta prostrata</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>
Foxtail, Yellow	<i>Setaria lutescens</i>
Goosegrass	<i>Eleusine indica</i>
Groundcherry, Cutleaf	<i>Physalis angulata</i>
Jimsonweed	<i>Datura stramonium</i>
Johnsongrass, Seedling	<i>Sorghum halepense</i>
Ladysthumb	<i>Polygonum persicaria</i>



COMMON NAME	SCIENTIFIC NAME
Lambsquarters, Common	<i>Chenopodium album</i>
Mexicanweed	<i>Caperonia castanaefolia</i>
Milkweed, Climbing	<i>Sarcostemma cyanchoides</i>
Milkweed, Honeyvine	<i>Ampelamus albidus</i>
Morningglory, Cypressvine	<i>Ipomoea quamoclit</i>
Entireleaf var. <i>integriscula</i>	<i>Ipomoea hederacea</i>
Ivyleaf var. <i>hederacea</i>	<i>Ipomoea hederacea</i>
Purple Moonflower	<i>Ipomoea turbinata</i>
Scarlet	<i>Ipomoea coccinea</i>
Smallflower	<i>Jacquemontia tamnifolia</i>
Smallwhite (pitted)	<i>Ipomoea lacunosa</i>
Tall (Common)	<i>Ipomoea purpurea</i>
Willowleaf (Palmleaf)	<i>Ipomoea wrightii</i>
Mustard, Wild	<i>Brassica kaber</i>
Nightshade, Black	<i>Solanum nigrum</i>
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum texanum</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Pigweed, Smooth	<i>Amaranthus hybridus</i>
Poinsettia, Wild	<i>Euphorbia heterophylla</i>
Purslane, Common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Ragweed, Giant	<i>Ambrosia trifida</i>
Redweed	<i>Melochia corchorifolia</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Sicklepod	<i>Cassia obtusifolia</i>
Sida, Prickly	<i>Sida spinosa</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Smellmelon	<i>Cucumis melo</i>
Spurge, Prostrate	<i>Euphorbia supina</i>

COMMON NAME	SCIENTIFIC NAME
Spurge, Spotted	<i>Euphorbia maculata</i>
Starbur, Bristly	<i>Acanthospermum hispidum</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>
Waterhemp, Tall	<i>Amaranthus tuberculatos</i>
Witchweed	<i>Striga asiatica</i>
Yellow Rocket	<i>Barbarea vulgaris</i>

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