

PM 23

10182-418

yellow 1 of 28



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

(under FIFRA, as amended)

EPA Reg.
Number:

10182-
418

Date of Issuance:

NOV 20 1996

Term of Issuance:

Conditional

Name of Pesticide Product:

Flexstar HL Herbicide

Name and Address of Registrant (include ZIP Code):

Zeneca Agricultural Products
1800 Concord Pike
P.O. Box 15458
Wilmington, DE 19850-5458

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c) (5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read, "EPA Reg. No. "10182-418".

b. Revise the oral statement of practical treatment to read as follows:

"IF SWALLOWED: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol."

Signature of Approving Official:

Date:

NOV 20 1996

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- c. Add the following Note To Physician in close proximity to, but clearly distinguished from, the Statement of Practical Treatment:

"Probable mucosal damage may contraindicate the use of gastric lavage."

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. A Copy of the Agency's acute toxicology review is also enclosed.

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

Enclosures

RD:STANTON:PM Team 23:Rm. 235:CM-2:305-5218:Disk #4:10182URI.REG

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	S. Stanton							
DATE ▶	Nov 19, 1996							

FLEXSTAR® HL
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* 22.1%

INERT INGREDIENTS 77.9%

TOTAL 100.0%

*Equivalent to 21.0% fomesafen or 1.88 pounds fomesafen active ingredient per gallon.
ACCEPTED
with COMMENTS
In EPA Letter Dated

NOV 20 1996

EPA Reg. No. 10182-

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
10182-418

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.)

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.

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.

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 EYE AND 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. **WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.**

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.

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**

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.

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.

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

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 dispose of in a sanitary landfill or by other approved state and local procedures.

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.

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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® HL . The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FLEXSTAR HL 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.

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FLEXSTAR™-6 HL
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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RECD EPA/PP/DPD1

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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.**

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FLEXSTAR HL Booklet

FLHL000.RSB 9/17/96

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

10/1/98

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EPA Reg. No. 10182-

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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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REFILL ONLY WITH FLEXSTAR® HL. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FLEXSTAR HL 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.

GENERAL INFORMATION

Read all label directions before using.

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

FLEXSTAR HL 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 HL used.

APPLICATION DIRECTIONS

TIMING: Best control of susceptible broadleaf weeds is obtained when FLEXSTAR HL is applied early to actively growing weeds. This usually occurs 14 to 28 days after planting. Refer to the weed tables for specific recommendations on weed growth stages, rates, and regions.

SPRAY ADDITIVES: Only spray additives cleared for use on growing crops under 40 CFR 180.1001 may be used.

In the Northern region ~~Regions 2, 3 and 4~~ (see Regional Use Map), FLEXSTAR HL should be used with a minimum of 2.5 ~~1.0~~% of liquid nitrogen (28% or similar) or a minimum of 40 ~~4~~ pounds ammonium sulfate per 100 gallons of spray volume.

Always Add One of the Following:

Nonionic Surfactant (NIS) - Use NIS containing at least 75% surface active agent at 0.25%-0.5% (1/2 - 1 pint per 25 gallons) of the finished spray volume (~~Southern Region~~ Only).

Crop Oil Concentrate (COC) - Use a nonphytotoxic COC or a once refined vegetable oil concentrate (VOC, MSO) containing 15-20% approved emulsifier at 0.5%-1% (1-2 pints 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 HL on the target crop through proven field trials and through university and extension recommendations.

Recommended Mixing Order:

1. Half required amount of water, begin agitation.*
2. Dry pesticide formulations.
3. FLEXSTAR HL herbicide.
4. Liquid pesticide formulation.
5. Adjuvant (COC or NIS) and fertilizer.

*Compatibility agent, 1 gallon/500 gallons of water or 0.2% v/v, may be added as needed.

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 and 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.

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.

CULTIVATION: Cultivation prior to application is not recommended. Cultivation may put weeds under stress, reducing weed control. Timely cultivation 1-3 weeks after applying FLEXSTAR HL may assist weed control.

GENERAL USE PRECAUTIONS

- ~~• A maximum of 1.6 pints/A of FLEXSTAR HL herbicide may be used per season in the Southern Region (see Regional Use Map).~~
- ~~• A maximum of 1.6 pints/A of FLEXSTAR HL herbicide may be applied in alternate years in the Northern Region (see Regional Use Map).~~
- ~~• Do not apply FLEXSTAR HL or any other fomesafen-containing product to any field in the Northern Region more than once every two years.~~
- A maximum of 1.6 pints of FLEXSTAR HL herbicide (or a maximum of 0.375 lb a.i./A of fomesafen from any product containing fomesafen) may be applied per acre per year in Region 1 (see Regional Use Map).

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- A maximum of 1.6 pints of FLEXSTAR HL herbicide (or a maximum of 0.375 lb ai/A of fomesafen from any product containing fomesafen) may be applied per acre in alternate years in Region 2 (see Regional Use Map).
- A maximum of 1.3 pints of FLEXSTAR HL herbicide (or a maximum of 0.313 lb ai/A of fomesafen from any product containing fomesafen) may be applied per acre in alternate years in Region 3 (see Regional Use Map).
- A maximum of 1 pint of FLEXSTAR HL herbicide (or a maximum of 0.25 lb ai/A of fomesafen from any product containing fomesafen) may be applied per acre in alternate years in Region 4 (see Regional Use Map).
- Apply FLEXSTAR HL herbicide before soybeans bloom.
- It is mandatory that ~~Thoroughly clean~~ the spray system be thoroughly cleaned with water and a commercial tank cleaner before and after each use.
- Tankmixes of FLEXSTAR HL herbicide with other pesticides, fertilizers or any other additives except as specified on this label or other approved ZENECA supplemental labels may result in tankmix incompatibility, unsatisfactory performance and/or unsatisfactory crop injury.
- FLEXSTAR HL herbicide requires a 1-hour rain-free period for best results.
- Apply to actively growing weeds. Avoid applying FLEXSTAR HL 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. ~~Application is prohibited~~ Do not apply when wind velocity exceeds 10 ~~15~~ mph. Do not make ground or aerial application during temperature inversions.
- To provide adequate coverage, it is recommended that ground speed not exceed 10 MPH during application.
- Do not graze treated areas or harvest for forage or hay.

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ROTATIONAL CROP RESTRICTIONS

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

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

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

* Use 18 month minimum rotation interval for sweet corn in the states of Maine, Massachusetts, New Hampshire, New York, Rhode Island and Vermont.

** Sorghum may be planted back after 10 months in Region 1.

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FLEXSTAR HL 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 HL 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 HL herbicide may be applied: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri (Counties of Bollinger, Butler, Cape Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pemiscot, Perry, Ripley, Scott, Stoddard, Wayne), North Carolina, Oklahoma (East of U.S. Highway 75 and East of Indian Nation Parkway), South Carolina, Tennessee, and Texas (all areas East of Highway 77 to State Road 239, including all of Calhoun County).

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FLEXSTAR HL IN SOYBEANS - USE RATES AND WEEDS CONTROLLED

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

REGION 1

Region 1 - Includes the following states or portion of states where FLEXSTAR HL herbicide may be applied: Alabama, Arkansas, Georgia, Louisiana, Mississippi, Missouri (Counties of Bollinger, Butler, Cape Girardeau, Dunklin, Madison, Mississippi, New Madrid, Pemiscot, Perry, Ripley, Scott, Stoddard and Wayne), North Carolina, Oklahoma (East of U. S. Highway 75 and East of Indian Nation Parkway), South Carolina, Tennessee and Texas (all areas East of Highway 77 to State Road 239, including all of Calhoun County).

REGION 2

REGION 2 - Includes the following states where FLEXSTAR HL may be applied: Delaware, Kentucky, Maryland, Virginia and West Virginia and South of Interstate 70 in the following states: Illinois, Indiana and Ohio.

REGION 3

REGION 3 - Includes the following states or portion of states where FLEXSTAR HL may be applied: Iowa, Maine, Massachusetts, Missouri (all counties except for those listed in Region 1), New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin (South of U.S. Highway 18 between Prairie Du Chien and Madison, and South of Interstate 94 between Madison and Milwaukee) and North of Interstate 70 in the following states: Illinois, Indiana and Ohio.

REGION 4

REGION 4 - Includes the following states or portion of states where FLEXSTAR HL may be applied: Kansas (all areas east of U.S. Highway 75), Michigan (all areas south of State Road 55), Minnesota (all areas south of U.S. Highway 212), Nebraska (all areas east of U.S. Highway 81), and Wisconsin (North of U.S. Highway 18 between Prairie Du Chien and Madison, and South of Interstate 94 from Hudson to Madison).

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APPLICATION RATES FOR WEED GROWTH STAGES

	FLEXSTAR HL Rate (Pts/A)		
	Maximum Growth Stage Controlled At		
Weed	1 Pts/A # of True Leaves	1.31/25 Pts/A # of True Leaves	1.6/15 Pts/A # of True Leaves
Anoda, Spurred	- 2*	2	2 1/2
Balloonvine	1	2	1
Carpetweed	6" 8" Diameter Size	Multi-leaf 6" Diameter Unlimited Size	Unlimited Size
Citron (Wild Watermelon)	2	2 1/2	4
Cocklebur, Common	- 4	6	8
Copperleaf, Hophornbeam	2 1/2	2 1/2	- 4 6
Copperleaf, Virginia	2 1/2	2 1/2	- 4 6
Crotalaria, Showy	- 4 6	- 4 6	6 8
Croton, Tropic	2 1/2	2 1/2	- 4 6
Cucumber, Volunteer	4	- 4 6	6 8
Eclipta	2	2 1/2	4
Groundcherry, Cutleaf	2 1/2	- 4 6	6 8
Jimsonweed	- 4 6	6 8	8
Ladysthumb	2	4	6
Lambsquarters, Common	2*	2*	2*
Mexicanweed	- 2*	2*	2 1/2
Morningglory			
Cypressvine	4	- 4 6	6
Entireleaf var.	2 8	3 4	5
Ivyleaf	2 8	3 1/2	5
Purple Moonflower	2 8	- 4 5	6
Red (Scarlet)	3	6	6
Smallflower	2 8	4	6
Pitted (Smallwhite)	3 1/2	6	6
Tall (Common)	2	3	5

	FLEXSTAR HL Rate (Pts/A)		
	Maximum Growth Stage Controlled At		
Weed	1 Pts/A # of True Leaves	1.31/25 Pts/A # of True Leaves	1.6/15 Pts/A # of True Leaves
Palmleaf (Willowleaf)	3	6	6
Mustard, Wild	4 6	6 8	8
Nightshade, Black	4	4 6	4 6
Nutsedge, Yellow	--	- 1	*
Pigweed, spp.			
Amaranth, Palmer	4	6	6
Amaranth, Spiny	- 2	4	4 6
Redroot	4	6	8
Smooth	4	4 6	6
Waterhemp, Common	4 2	4	6
Waterhemp, Tall	4 2	4	6
Poinsettia, Wild	2	4	6
Purslane, Common	Multi-Leaf 6" Diameter	Multi-Leaf 6" 8 Diameter	Multi-Leaf 8" Diameter
Pusley, Florida	- 2	2	4
Ragweed, Common	4	6	8
Ragweed, Giant	4	6	8
Redweed	--	- 2	3*
Sesbania, Hemp	6 8	6 12	12
Sicklepod	--	- Cotyledon*	Cotyledon*
Sida, Prickly	- 2	2	2 4
Smartweed, Pennsylvania	4	6	6
Smellmelon	2	2	4
Spurge, Prostrate	--	1" Diameter*	4" 2 Diameter*
Spurge, Spotted	--	2*	2*
Starbur, Bristly	2 4	4	6
Sunflower, Common	--	4 2	6 4
Velvetleaf	--	4	6 4
Venice Mallow	4 6	4 6	6 8

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	FLEXSTAR HL Rate (Pts/A)		
	Maximum Growth Stage Controlled At		
Weed	1 Pts/A # of True Leaves	4.31/25 Pts/A # of True Leaves	4.6/15 Pts/A # of True Leaves
Witchweed	- Multi-leaf Up to 7"	Multi-leaf Up to 7" 10"	Multi-leaf Up to 10"
Yellow Rocket	4	6	6 8

*Suppression Only

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SPECIAL USE DIRECTIONS FOR ADDITIONAL WEED PROBLEMS

Suppression of Annual Grasses:

The grasses listed below may be suppressed by applications of FLEXSTAR HL at 4-4.6 ~~1-1.5~~ pints/acre. Consult Use Rate Table for maximum rate in each region. For full-season broad-spectrum annual grass control, FUSILADE® DX or FUSION® herbicide should be used alone or in tankmix with FLEXSTAR HL. 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 HL at rates of 4-4.6 ~~1-1.5~~ 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 HL 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
- Trumpet creeper

TANKMIX AND SEQUENTIAL APPLICATIONS FOR SOYBEANS

FLEXSTAR HL can be used sequentially or in tankmix with one or more of the following products: FUSILADE® DX, FUSION®, Select®, Assure II®, Poast®, Poast Plus™, Pursuit®, Bugle™, Option® II, Basagran®, Classic®, Concert®, Pinnacle®, Synchrony STS®, Scepter®, ~~Reliance® STS~~ Resource®, and Butyrac®, and RoundUp Ultra.

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

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

- Tankmix applications can result in increases in crop injury as compared to either product used alone.
- Do not exceed 1 fluid ounce of Butyrac per acre in mixture with FLEXSTAR HL.

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.

APPENDIX

Scientific names are listed for those weeds referred to in the FLEXSTAR HL label.

COMMON NAME	SCIENTIFIC NAME
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, Spiny	<i>Amaranthus spinosus</i>
Anoda, Spurred	<i>Anoda cristata</i>
Balloonvine	<i>Cardiospermum halicacabum</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bindweed, Field	<i>Convolvulus arvensis</i>
Bindweed, Hedge	<i>Calystegia sepium</i>
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>
Carpetweed	<i>Mollugo verticillata</i>
Citron (Wild Watermelon)	<i>Citrullus vulgaris</i>
Cocklebur, Common	<i>Xanthium strumarium</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</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 glauca</i>
Goosegrass	<i>Eleusine indica</i>
Groundcherry, Cutleaf	<i>Physalis angulata</i>
Jimsonweed	<i>Datura stramonium</i>
Johnsongrass, Seedling	<i>Sorghum halepense</i>

COMMON NAME	SCIENTIFIC NAME
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mexicanweed	<i>Caperonia castaniifolia</i>
Milkweed, Climbing	<i>Sarcostemma cyanchoides</i>
Milkweed, Honeyvine	<i>Ampelamus albidus</i>
Morningglory, Cypressvine	<i>Ipomoea quamoclit</i>
Entireleaf	<i>Ipomoea hederacea</i> var. <i>integriscula</i>
Ivyleaf	<i>Ipomoea hederacea</i> var. <i>hederacea</i>
Purple Moonflower	<i>Ipomoea turbinata</i>
Red (Scarlet)	<i>Ipomoea coccinea</i>
Smallflower	<i>Jacquemontia tamnifolia</i>
Pitted (Smallwhite)	<i>Ipomoea lacunosa</i>
Tall (Common)	<i>Ipomoea purpurea</i>
Palmleaf (Willowleaf)	<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>

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COMMON NAME	SCIENTIFIC NAME
Smellmelon	<i>Cucumis melo</i>
Spurge, Prostrate	<i>Euphorbia humistrata</i>
Spurge, Spotted	<i>Euphorbia maculata</i>
Starbur, Bristly	<i>Acanthospermum hispidum</i>
Sunflower, Common	<i>Helianthus annuus</i>
Trumpet creeper	<i>Campsis radicans</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionum</i>
Waterhemp, Common	<i>Amaranthus rudis</i>
Waterhemp, Tail	<i>Amaranthus tuberculatos</i>
Witchweed	<i>Striga asiatica</i>
Yellow Rocket	<i>Barbarea vulgaris</i>

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