



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

EPA Reg. Number:
3125-487

Date of Issuance:
APR 8 1998
Expiration Date:
APR 30 2003

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
FOE 5043 DF Herbicide

Name and Address of Registrant (include ZIP Code):

Bayer Corporation
8400 Hawthorn Road
P.O. Box 4913
Kansas City, MO 64120-0013

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) (C) provided that you:

1. Comply with all the terms and conditions as stated in attached correspondence dated March 26, 1998 from Bayer Corporation concerning additional data requirements for N-(4-fluorophenyl)-N-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]acetamide [proposed common name flucenacet].
2. Make the following label changes listed below before you release the product for shipment:
 - a. Add the phrase, "EPA Reg. No. 3125-487".
 - b. Assure that the Surface Water section reads as specified in the March 26, 1998 correspondence.

Signature of Approving Official:

Date:

4-8-98

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c. Under crop rotation recommendations delete "Waiting period after FOE 5043....can be planted" and replace with the following:

After application of FOE 5043, only the following crops can be planted, after the waiting period listed below.

3. Submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on corn and soybeans is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1, and ends September 30. The product information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

This information is to be submitted to:

Registration Support Branch
Registration Division (7505C)
Environmental Protection Agency
Washington, DC 20460

If production will exceed 16% of the total corn and 26% of the total soybeans acres planted in the U.S. at the average application rates for products containing flufenacet, Agency permission must be obtained.

4. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

5. Submit by October 31, 2002 the following Studies conducted on accordance with the Good Laboratory Practice Standards, 40 CFR Part 160 and appropriate test guidelines as referenced in EPA's Data Requirements for Registration Regulations, 40 CFR Part 158:

a. Acute Toxicity of the thiadone degradate to Aquatic Species [Guideline #'s 72-1, 72-2, and 72-3]

b. Environmental Fate Data on the thiadone degradate [Guideline #'s 161-1, 161-2, 162-1, 162-2 or 162-3, 162-4, and 163-2]

c. Freshwater Fish Life-Cycle Test conducted with FOE 5043 Technical [Guideline # 72-5]

d. Two Prospective Groundwater Monitoring Studies at vulnerable sites

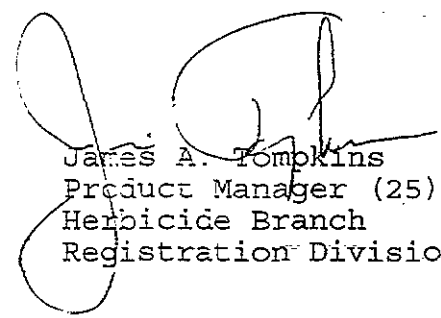
e. Tier II Terrestrial Plant Test conducted with Axiom DF [Guideline # 123-1]

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- f. Data regarding the stability of the glucoside conjugate and the malonylalanine conjugate of thiadone and subsequent bioavailability of any release free thiadone
- g. A revised analytical method
- h. Validation of the product chemistry enforcement analytical method [OPPTS 830.1800]
- i. Additional Crop Rotation data [Guideline # 165-2]
- j. Surface Water Monitoring
- k. A Developmental Neurotoxicity Study

If these conditions are 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 these conditions.

A stamped copy of the label is enclosed for your records.



James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

4713

UIT-9121.YLD

Base Pre-Reg (9121)

U.S. LABEL

Reason to Issue: To change signal word and modify
Precautionary Statements.

Date of Pre-Reg Draft: 03/13/98 (D)
 Date of Pre-Reg Label: 03/10/98
ACCEPTED
 With Comment
 APR 8 1998
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under 212-A-07

FOE 5043

DF Herbicide

For control of certain grass and broadleaf weeds in corn and soybeans.

3125-487

ACTIVE INGREDIENT:

N-(4-Fluorophenyl)-*N*-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]acetamide .. 60.0%

INERT INGREDIENTS 40.0%
100.0%

EPA File Symbol No. 3125-UIT

EPA Est. 3125-MO-1

U.S. Patent No. 4,645,525 and 4,585,471 and 4,968,342

Net Weight: ___ Pounds

**STOP - Read the Label Before Use
KEEP OUT OF REACH OF CHILDREN**

CAUTION WARNING

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION WARNING: Harmful ~~May be fatal~~ if swallowed. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

User 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.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed: Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to

an unconscious person. Professional medical assistance should be secured immediately. **If on skin:** Wash thoroughly with soap and warm water.

To Physician: No specific antidote is available. Treat the patient symptomatically.

Text being added is highlighted by redlining

Text being deleted is highlighted by ~~strikeout~~

FOE 5043 DF

5-7-73

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 apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters.

Do not allow sprays to drift onto adjacent desirable plants.

Ground Water: *N*-(4-Fluorophenyl)-*N*-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]acetamide is known to leach through soil into ground water under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Sprays left

Surface Water: *N*-(4-Fluorophenyl)-*N*-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]oxy]acetamide has properties that may result in surface water contamination via dissolved runoff and/or runoff erosion. Vulnerable conditions include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with infield canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

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 continued

contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

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 12 hours following application.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves

IMPORTANT: Read these entire Directions and Conditions of Sale before using FOE 5043 Dry Flowable Herbicide.

CONDITIONS OF SALE OR OF DELIVERY FOR USE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

GENERAL INFORMATION

FOE 5043 is a selective herbicide for control of many annual grasses and certain broadleaf weeds in field corn, corn grown for silage and soybeans. FOE 5043 may be applied preplant

surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence. FOE 5043 will provide its most effective weed control when applied and subsequently

moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence. FOE 5043 controls weeds by interfering with seed germination and seedling development. FOE 5043 may be applied using either water or sprayable fluid fertilizer as a liquid carrier or be impregnated and applied on dry bulk fertilizer.

FOE 5043 may be applied either alone or in tank mix combination with additional herbicides. When tank mixing, always observe all precautionary statements and limitations on labeling of all products.

Dry weather following preemergence application of FOE 5043 or recommended tankmixtures may reduce effectiveness. Cultivate if weeds develop.

GENERAL USE RESTRICTIONS

FOE 5043 is for use on soybeans, field corn or corn grown for silage. Do not use on popcorn, sweetcorn, whitecorn or corn grown for seed.

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

Do not use flood irrigation to apply, activate or incorporate FOE 5043.

Do not apply more than 21 ounces FOE 5043 per acre per use season in corn and 12 ounces per acre per use season in soybeans.

Do not apply FOE 5043 or FOE 5043 tank mixtures when environmental conditions may favor drift to non-target sites.

Corn and soybean seed should be planted a minimum of 1 to 1-1/2 inches deep.

If any crop treated with FOE 5043 is lost, corn or soybeans may be replanted immediately. Do not make a second application of FOE 5043.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing / loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing / loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

This product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

RATE SELECTION/SOIL TEXTURE

The recommended rates of FOE 5043 are defined by texture and organic matter content of the soil being treated. Unless a specific soil texture is mentioned, rate tables throughout this label refer to the following three soil texture groups: coarse, medium and fine. If you are not sure how to classify

your soil, contact your Bayer Corporation representative, the Cooperative Extension Service or other knowledgeable person. The following chart includes a complete listing of soil textures included in each of the soil textures groupings:

COARSE	MEDIUM	FINE
Sand Loamy sand Sandy loam	Loam Silt loam Silt Sandy clay loam Sandy clay	Silty clay loam Silty clay Clay loam Clay

MIXING INSTRUCTIONS

LIQUID CARRIERS:

FOE 5043 is a dry flowable herbicide that must be mixed in water or sprayable fluid fertilizer. Compatibility of FOE 5043 or its labeled tank mix products with these liquid carriers should always be predetermined prior to spraying. Refer to the SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST (Appendix I) of this label to determine product compatibility in fluid fertilizer carriers.

Before mixing FOE 5043 and its labeled tank mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. Be sure the equipment is free of any residues from previously used pesticides. Flush lines with clean water or recommended detergents after the last application. Use an approved method for disposing of rinsate.

The proper mixing sequence for FOE 5043 and recommended tank mixtures with the appropriate liquid carrier is as follows:

1. Fill the spray tank or nurse tank 1/4 full with the appropriate liquid carrier.
2. Start recirculation and agitation system and continue throughout mixing and application.
3. If the compatibility test indicates the need of a compatibility agent, add the recommended amount of compatibility agent to the spray tank.
4. If ammonium sulfate is to be used, add it now. Next add the recommended quantity of FOE 5043 [add directly if

water or sprayable grade nitrogen fertilizers (28-0-0, 34-0-0) are the carriers; for other sprayable grade fertilizers first check compatibility and then either mix directly or preslurry in water depending in the results of the compatibility test].

5. If tank mixing with wettable powders or other dry flowable products, make a slurry of the products with water and add the slurry slowly to the spray tank.
6. If tank mixing with emulsifiable concentrates or soluble products, add the products to the spray tank.
7. If tank mixing with Gramoxone Extra®, a glyphosate-containing product or Touchdown®, add the products to the spray tank.
8. If mixing spray adjuvants in the mixture, add them after all other products have been mixed.
9. Fill the spray tank to the desired level with the appropriate liquid carrier.
10. Continue agitation during transport and application until the spray tank is empty. FOE 5043 and all registered mixtures should be kept agitated once mixed and then sprayed immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture may stand before application.

DRY FERTILIZER CARRIERS:

FOE 5043 may be impregnated or coated on dry bulk fertilizers for application. Refer to Appendix II of this label for details.

APPLICATION INFORMATION

SPRAYER APPLICATION

Ground Broadcast Treatment: Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply FOE 5043 and the labeled tank mixtures in a minimum of 10 gallons of total spray volume per acre using broadcast boom equipment. Use a pump with capacity to maintain 30 to 40 psi at the nozzles, maintain adequate in-tank agitation to keep the spray mixture in suspension and provide a minimum of 20% bypass at all times. Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by the tank mix product or 10 gallons, whichever is greater. The use of screens to protect the pump and nozzles is recommended. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use

50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Refer to the nozzle manufacturer for additional recommendations. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

Band Treatment: FOE 5043 and the labeled tank mixtures may be applied as a band treatment. Use the following formula to calculate the amount of herbicide needed for band treatments:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast rate}}{\text{per acre}} = \frac{\text{Band rate}}{\text{per acre}}$$

DRY FERTILIZER APPLICATION

Apply using a minimum of 200 lb of dry fertilizer per acre. See Appendix II for additional details.

APPLICATION METHODS AND TIMING

FOE 5043 may be applied either alone or in tank mixtures with or sequentially with certain other registered and recommended herbicides. Applications may be made preplant surface, preplant incorporated or preemergence.

FOE 5043 may be used in either a single or split application program. Do not apply when environmental conditions favor drift.

Preplant Surface: For use in conservation, minimum or no-tillage crop production systems, FOE 5043 alone or as a recommended tank mixture may be applied as a broadcast spray up to 45 days before planting in corn and 14 days before planting in soybeans. A sequential application is recommended for applications made 30 to 45 days prior to planting, where 2/3 of the highest recommended broadcast rate for the crop and soil texture is applied initially and the remaining 1/3 is applied at planting. Treatments made less than 30 days before planting may use either a single or sequential application. If weeds are present at the time of application, apply the FOE 5043 treatment in tank mixture with a recommended nonselective herbicide such as Gramoxone Extra, a glyphosate-containing product or Touchdown. If possible, do not move treated soil out of the row or move untreated soil to the soil surface during planting, as weed control may be reduced.

Preplant Incorporation: Apply FOE 5043 alone or in combination with recommended tank mixes as a broadcast spray and incorporate into the upper 1 to 2 inches of the soil surface up to 14 days before planting. Avoid deep

incorporation since reduced weed control and/or crop injury may result. Incorporate with implements which provide uniform, shallow incorporation (example -finishing disk, harrow, rolling cultivator, etc.)

Preemergence: FOE 5043 alone and its recommended tank mixes may be applied to the soil surface as a broadcast spray or band application after planting of the crop but prior to weed or crop emergence. If weeds are present at the time of application, apply FOE 5043 with a nonselective herbicide such as Gramoxone Extra, a glyphosate-containing product or Touchdown. Rainfall and/or overhead sprinkler irrigation is necessary to move FOE 5043 into the upper soil surface where weed seeds germinate. Dry weather conditions following application may reduce weed control. If adequate moisture is not received within 7 to 10 days after applications and weeds begin to emerge from the soil, a light rotary hoeing or shallow incorporation (no deeper than 1/2 inch deep) will improve performance and minimize crop damage. Excessive rainfall or irrigation after application may reduce weed control.

CORN

FOE 5043 dry flowable herbicide is a selective herbicide for control of most annual grasses and selected annual broadleaf weeds in field corn or corn grown for silage. A single or split application program may be used and the product may be applied alone or in tank-mix combination with certain registered herbicides. The following types of applications are

allowed: preplant surface, preplant incorporate and pre-emergence. Most effective weed control will occur when the applied product is moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence from the soil.

WEED SPECIES CONTROLLED BY FOE 5043

FOE 5043 herbicide applied at recommended dosages and application timings will control many important annual grasses and broadleaf weeds.

WEEDS CONTROLLED ¹			
ANNUAL GRASS WEEDS		ANNUAL BROADLEAF WEEDS	
Barnyardgrass (<i>Echinochloa crusgalli</i>)	Foxtail, green (<i>Setaria viridis</i>)	Panicum, browntop (<i>Panicum fasciculatum</i>)	Carpetweed (<i>Mullugo verticillata</i>)
Crabgrass, large (<i>Digitaria sanguinalis</i>)	Foxtail, yellow (<i>Setaria glauca</i>)	Panicum, fall (<i>Panicum dichotomiflorum</i>)	Purslane, common (<i>Portulaca oleracea</i>)
Crabgrass, smooth (<i>Digitaria ischaemum</i>)	Goosegrass (<i>Elyusine indica</i>)	Signalgrass, broadleaf (<i>Brachieria platyphylla</i>)	Pusley, Florida (<i>Richardia scabra</i>)
Foxtail, giant (<i>Setaria faben</i>)	Johnsongrass (seedling) (<i>Sorghum halepense</i>)	Witchgrass (<i>Panicum capillare</i>)	Spurge, spotted (<i>Euphorbia maculata</i>)
	Lovegrass, India (<i>Eragrostis sp</i>)		

WEED SPECIES PARTIALLY CONTROLLED BY FOE 5043

FOE 5043 herbicide will provide partial control or reduced competition for many additional grass and broadleaf weeds. Reduced competition weeds will be stunted in growth and/or be of reduced populations as compared to non-treated areas but control will generally not be commercially acceptable.

WEED SPECIES PARTIALLY CONTROLLED		
ANNUAL GRASS/SEDGE WEEDS	ANNUAL BROADLEAF WEEDS	
Cupgrass, woolly (<i>Eriochloa villosa</i>)	Beggarweed, Florida (<i>Desmodium tortuosum</i>)	Ragweed, common (<i>Ambrosia artemisiifolia</i>)
Millet, wild-proso (<i>Panicum miliaceum</i>)	Lambsquarters, common (<i>Chenopodium album</i>)	Sida, prickly (<i>Sida spinosa</i>)
Nutsedge, yellow (<i>Cyperus esculentus</i>)	Mustard spp. (<i>Brassica spp.</i>)	Waterhemp, common (<i>Amaranthus rudis</i>)
Panicum, Texas (<i>Panicum texanum</i>)	Nightshade, eastern black (<i>Solanum ptycanthum</i>)	Waterhemp, tall (<i>Amaranthus tuberculatus</i>)
Sandbur, field (<i>Cenchrus incertus</i>)	Pigweed spp. (<i>Amaranthus spp.</i>)	
Shattercane (<i>Sorghum bicolor</i>)		

**FOE 5043 USE RATES IN PREPLANT SURFACE,
PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS**

For CONVENTIONAL Tillage Systems With Applications Made TWO WEEKS OR LESS Preplant Surface, Preplant Incorporated or Preemergence:
Recommended FOE 5043 use rates are located in Table 1.

Rates are based on soil texture and organic matter and are for applications made within two weeks of planting and until corn emergence.

TABLE 1

FOE 5043 USE RATES IN CONVENTIONAL TILLAGE APPLICATIONS MADE TWO WEEKS OR LESS PREPLANT SURFACE, PREPLANT INCORPORATED OR PREEMERGENCE. FOE 5043 DF RATE (OUNCES PER ACRE). ^{1,2}		
SOIL TEXTURAL GROUP ³	SOIL ORGANIC MATTER CONTENT	
	Less than 3%	3% or More
COARSE	12 oz	14 oz
MEDIUM	14 to 16 oz	16 to 18 oz
FINE	18 to 20 oz	18 to 21 oz

¹ Use the higher rate of FOE 5043 within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.
² Not recommended for use on peat or muck soils (soils with 20% or more organic matter).
³ For more information, refer to the "Rate Selection/Soil Texture" section of this label.

For CONSERVATION, MINIMUM, and NO-TILLAGE Systems; or CONVENTIONAL Tillage Systems With Applications GREATER THAN TWO WEEKS Preplant: Recommended FOE 5043 use rates are located in Table 2. Rates are higher for these types of tillage systems and application timings than in Table 1 due to the extended period of weed control needed and the increased crop residue present. Refer to the "Application Methods and

Timing" section of the label for details. Weed control will generally be greater the closer the applications are made to planting but prior to weed emergence. If weeds are present at application, a nonselective herbicide such as or Gramoxone Extra, a glyphosate-containing product or Touchdown used at recommended rates may be mixed with FOE 5043 treatments.

TABLE 2

**FOE 5043 USE RATES IN CONSERVATION, MINIMUM, AND NO-TILLAGE SYSTEMS;
OR CONVENTIONAL TILLAGE SYSTEMS WITH APPLICATIONS GREATER THAN TWO WEEKS PREPLANT SURFACE.
FOE 5043 DF RATES (OUNCES PER ACRE).^{1,2}**

SOIL TEXTURAL GROUP ³	SOIL ORGANIC MATTER CONTENT	
	Less than 3%	3% or More
COARSE	13 oz	15 oz
MEDIUM	15 to 18 oz	18 to 20 oz
FINE	20 to 21 oz	20 to 21 oz

¹ Use the higher rate of FOE 5043 within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure and/or when soil organic matter is at the upper end of the range.

² Not recommended for use on peat or muck soils (soils with 20% or more organic matter).

³ For more information, refer to the "Rate Selection/Soil Texture" section of this label.

FOE 5043 TANK MIXTURES

FOE 5043 may be applied in tank mixture with certain herbicides to improve control of broadleaf weeds such as velvetleaf, common cocklebur and morningglory species. Mixtures may be used in either conventional, conservation, minimum and no-tillage systems. They may be applied with similar timings and methods as FOE 5043 alone unless specifically prohibited in the mix partner's product label. Three-way or multiple tank mixtures are permitted unless restricted by the product label. Refer to the individual product labels for recommended use rates, precautions and/or restrictions.

Herbicides recommended for tank mixtures with FOE 5043 include:

- | | |
|---------------|-----------------|
| Atrazine | Prowl® |
| Bladex® | Marksman® |
| Banvel® | Eradicane® |
| Clarity® | Gramoxone Extra |
| Extrazine II® | Roundup |
| Glyphosate | Roundup Ultra® |
| Hornet® | 2,4-D LVE |
| Pentagon® | SENCOR® |
| | Touchdown |

FOE 5043 SEQUENTIAL APPLICATIONS

Sequential herbicide applications either before or following FOE 5043 treatments may be used to control additional

weeds. Herbicides recommended for sequential applications include:

- | | | | | | |
|------------|-----------------------|---------------|-----------------|-----------|---------------|
| Atrazine | Beacon® | Buctril Gel® | Gramoxone Extra | Poast® | Roundup Ultra |
| Accent® | Bladex | Clarity | Hornet | Prowl | Scorpion III® |
| Banvel | Bromoxynil | Contour® | Laddok S-12® | Pursuit® | SENCOR |
| Basagran® | Bromoxynil + Atrazine | Exceed® | Liberty® | Resolve® | Touchdown |
| Basis® | Buctril® | Extrazine II® | Marksman® | Resource® | Tough® |
| Battalion® | Buctril + Atrazine® | Glyphosate | Permit® | Roundup | 2,4-D |

SOYBEAN

FOE 5043 is a selective herbicide for control/suppression of most annual grasses in soybeans. FOE 5043 may be applied once per use season either alone, in tank mix combination with or sequentially with certain registered herbicides. The following types of application are allowed: preplant surface, preplant incorporated and preemergence. The preplant surface and preplant incorporated treatments may be applied

up to 14 days before planting. The most effective weed control will occur when the applied product is moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence from the soil.

Do not graze or feed forage, hay or straw to livestock.

WEED SPECIES CONTROLLED BY FOE 5043

FOE 5043 herbicide applied alone at the recommended dosages and application timings will provide control of certain annual grasses.

WEEDS CONTROLLED ¹	
ANNUAL GRASS WEEDS	
Barnyardgrass (<i>Echinochloa crusgalli</i>)	Foxtail, yellow (<i>Setaria glauca</i>)
Crabgrass, large (<i>Digitaria sanguinalis</i>)	Goosegrass (<i>Eleusine indica</i>)
Crabgrass, smooth (<i>Digitaria ischaemum</i>)	Lovegrass, India (<i>Eragrostis sp</i>)
Foxtail, giant (<i>Setaria faberi</i>)	Panicum, fall (<i>Panicum dichotomiflorum</i>)
Foxtail, green (<i>Setaria viridis</i>)	

¹ Full season weed control will be achieved only on coarse textured soils using the maximum 12 ounce use rate. Use rates of 7 to 12 ounces will provide only early season weed control on all other soil textures. To complement early season weed control, AXIOM is recommended for use in tank-mixture with or sequentially with other herbicides that provide additional control of these weed species.

WEED SPECIES PARTIALLY CONTROLLED BY FOE 5043

FOE 5043 herbicide will provide partial control or reduced competition for additional annual grasses. Reduced competition weeds will be stunted in growth and/or be of reduced populations as compared to non-treated areas but control will generally not be commercially acceptable.

WEED SPECIES PARTIALLY CONTROLLED	
ANNUAL GRASS WEEDS	
Johnsongrass, seedling (<i>Sorghum halepense</i>)	Signalgrass, broadleaf (<i>Brachiaria platyphylla</i>)
Panicum, browntop (<i>Panicum fasciculatum</i>)	Shattercane (<i>Sorghum bicolor</i>)
Sandbur, field (<i>Cenchrus incertus</i>)	Witchgrass (<i>Panicum capillare</i>)

FOE 5043 USE RATES

The recommended use rates for FOE 5043 applied alone, in tank mix combination with and/or sequentially with other herbicides for all application methods and timings is **7 to 12 ounces** per acre. The 12 ounce rate of FOE 5043 will provide full season control of annual grasses in coarse textured soils but will provide only early season weed control

on medium and fine textured soils. Rates lower than 12 ounces will provide **only** early season weed control on all soil textures. To complement this early season weed control, FOE 5043 should be used in tank-mixture or sequentially with other herbicides that provide additional control of these weed species.

FOE 5043 TANK MIXTURES

FOE 5043 may be applied in tank mixture with certain herbicides to improve control of annual grasses and/or broadleaf weeds such as velvetleaf, common cocklebur and morningglory species. Mixtures may be used in either conventional, conservation, minimum and no-tillage systems. They may be applied with similar timings and methods as FOE 5043 alone unless specifically prohibited in the mix

partner product label. Three-way or multiple tank mixtures are permitted unless restricted by the mix partner product labels. Refer to the individual product labels for recommended use rates, precautions and/or restrictions. Herbicides recommended for tank mixtures with FOE 5043 include:

- | | | | | |
|----------------------|-----------------------------|----------|---------------------|-------------|
| Authority Broadleaf® | FirstRate® | Pentagon | Roundup Ultra | Touchdown |
| Canopy® | Glyphosate | Prowl | Sencor (Metribuzin) | Trifluralin |
| Canopy XLE® | Gramoxone Extra | Pursuit | Scepter® | Turbo® |
| Command® | Linuron (Lorox® and others) | Roundup | Sonolan HFP® | 2,4-D LVE |

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FOE 5043 SEQUENTIAL APPLICATIONS

Sequential herbicide applications may be used in a FOE 5043 weed control program to control additional weeds.

Herbicides recommended for use either before or following FOE 5043 treatments include:

- | | | | | |
|------------|-----------------|-------------|---------------|----------------|
| Assure II® | FirstRate | Linuron | Raptor® | SENCOR |
| Basagran® | Flexstar® | Option II® | Reflex® | Sonatan HFP |
| Blazer® | Fusilade® | Pentagon | Reliance STS® | Storm® |
| Canopy | Fusion® | Pinnacle® | Resource | Synchrony STS® |
| Classic® | Galaxy® | Poast® | Roundup | Tornado® |
| Cobra® | Glyphosate | Poast Plus® | Roundup Ultra | Touchdown |
| Command® | Gramoxone Extra | Prowl | Scepter | Trifluralin |
| Concert® | Liberty | Pursuit | Select® | 2,4-D |

Refer to the above information and the individual product labels to for use directions, use rates and special precautions/restrictions.

CORN AND SOYBEAN CROP ROTATION RECOMMENDATIONS

In the event of a crop failure any crop on this label can be replanted immediately. Do not make a second application of FOE 5043. Do not graze or feed to livestock the forage or fodder of cotton planted 5 months after an FOE 5043 application.

Waiting period after FOE 5043 herbicide application before the following crops can be planted.

Immediately	1 month	4 months	
Com Soybean	Potato	Cabbage Carrots Cotton Lettuce	Peppers Radish Sugar beets
		all other leafy vegetables	

STORAGE AND DISPOSAL

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

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

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244 or contact Chemtrec at 800-424-9300.



APPENDIX I

SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

A compatibility test is highly recommended for all applications with liquid fertilizers. Prior to mixing products in the spray tank, small quantities of each product can be mixed in proportionate quantities to evaluate compatibilities. The following test assumes a spray volume of 25 gallons per acre. If other spray volumes are to be used, adjust the appropriate amounts of ingredients. To check for compatibility, use the following procedure:

1. Add two inches of water to a one-quart jar fitted with a tight lid.
2. Add the appropriate amount of herbicide. If more than one product is used, the recommended mix sequence is the dry herbicide first, flowables next and emulsified concentrates last. For dry herbicides, add 1-1/2 level teaspoons/pound/acre use rate and for liquids add 1/2 teaspoon/pint/acre use rate.
3. Add one pint of the liquid fertilizer to the jar. Place the lid on the jar and gently shake the jar for one minute. Place the jar on a level surface and let it stand for 30 minutes.
4. Observe the mixture for signs of separation, flakes, gels, precipitates, etc. If none of these conditions occur, the mix is compatible.
5. If incompatible, use of a compatibility agent is recommended. Rerun the above test but first add a compatibility agent (1/4 teaspoon is equal to a use rate of 2 pints/100 gallons spray mix) and gently shake the jar prior to adding herbicides.
6. If the mixture is now compatible, a compatibility agent should be used in the spray mixture at its recommended rate.
7. If the mixture is still incompatible, the liquid fertilizer and herbicides should not be mixed together for use in the same spray tank.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer may be impregnated or coated with FOE 5043 for applications to corn and soybeans. Follow all FOE 5043 label recommendations, special instructions and precautions. All state regulations relating to dry bulk fertilizer blending, impregnating and labeling must also be followed.

Rates: Select the recommended FOE 5043 use rate per acre from the crop section of this label and determine the quantity of dry bulk fertilizer to be applied per acre (use a minimum of 200 pounds and a maximum of 450 pounds per acre). Use the equation below to determine the amount of FOE 5043 needed per ton of fertilizer applied.

$$\frac{\text{Pounds FOE 5043}}{\text{per acre}} \times \frac{2000 \text{ lbs Fertilizer}}{\text{per acre}} \times \frac{\text{Pounds FOE 5043}}{\text{per ton fertilizer}}$$

(1 lb = 16 ounces FOE 5043)

Impregnation: FOE 5043 may be impregnated on many commonly used dry fertilizers but should not be impregnated on ammonium nitrate, fertilizers containing ammonium nitrate, potassium nitrate, sodium nitrate or powder limestone.

To impregnate FOE 5043 on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix FOE 5043 with sufficient water to form a sprayable slurry mixture. Spray nozzles must be directed to provide uniform fertilizer coverage while avoiding spray contact with mixing equipment. Nonuniform impregnation can cause crop injury or unsatisfactory performance.

Spray the herbicide mixture onto the fertilizer after blending has started. If necessary, include a suitable drying agent to ensure a spreadable herbicide impregnated fertilizer. If the fertilizer materials are excessively dusty, use diesel fuel or other suitable additive to reduce dust prior to impregnation. Apply the treated fertilizer immediately after impregnation to avoid lump formation and spreading difficulties.

Application. Accurate calibration of fertilizer application equipment and uniform fertilizer distribution is essential for satisfactory weed control. Air flow or auger metered application equipment is preferred (one pass application). If other equipment is used, the recommended application method is to apply one-half the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

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