

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) Ariel Rios Building 1200 Pennsylvania Ave. NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

X Registration

Reregistration tunder FIFRA; as amended

EPA Req. Number: 264-818

Date of Issuance:

NOV 19 2003

Term of Issuance:

Conditional

Name of Festicide Product:

Flufenacet 500 SC Flowable Herbicide

Name and Address of Registrant (include ZIP Code):

Bayer CropScience 2 T.W. Alexander Drive Research Triangle Park, NC 27709

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/cite all data required for the registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Submit Storage Stability data and Corrosion Characteristics data once completed (proposed date: June 30, 2004). These data must be completed with the product in the commercial packaging for the duration of one year.

Signature of Approving Date:

NOV 19 5

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Herbicide Branch, Registration Division

- 3. Change the EPA registration number to 264-818 on the label.
- 4. Submit a 28-day inhalation toxicity study in rats.

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- 5. Submit a special comparative sensitivity study on thyroid hormone levels in neonatal and adult rats.
- 6. Submit any data and/or information required to resolve deficiencies remaining once the Agency completes review of submitted data.
- 7. Add a statement similar to the one below to the areas on the label where generic chemical names such as glyphosate or 2,4-D are recommended as tank-mix partners

"The following herbicides may be tank mixed with Flufenacet 500 SC provided the product to be tank-mixed is registered for use on this site."

8. Submit one (1) copy of the revised final printed label 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.

Flufenacet 500 SC FLOWABLE HERBICIDE

FOR CONTROL OF CERTAIN GRASS AND BROADLEAF WEEDS IN CORN AND SOYBEANS

ACTIVE INGREDIENT: Flufenacet

INERT INGREDIENTS: 57.6%

Contains 4.17 lbs of N-(4-Fluorophenyl)-N-(1-methylethyl)-2-[[5-(trifluoromethyl)-1,3,4-thiadiazol-2-yl]-oxy]acetamide per gallon. Total 100.0%

EPA Reg No. 264-XXX

EPA Est. No.

STOP

Read the label before use. KEEP OUT OF REACH OF CHILDREN CAUTION

ACCEPTED
with COMMENTS
in EPA Letter Dated
NOV 1 Q 2002

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

264-818

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577.

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice.
• • • • • • • • • • • • • • • • • • • •	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	Take off contaminated clothing.
	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
	For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Removing and washing contaminated clothing before reuse may reduce exposure.

Personal Protective Equipment:

Applicators and other handlers must wear:

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

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.

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: Flufenacet is known to leach through soil into ground water under certain conditions as a result of use directions. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

Surface Water: Flufenacet residues can contaminate surface water through spray drift. Under some conditions, they also have high potential for runoff into surface water (primarily via dissolution in runoff water or erosion), for several to many months post-application. These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface waters.

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

- Coveralis
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal,

PESTICIDE STORAGE: 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, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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.

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

GENERAL INFORMATION

Flufenacet 500 SC is a selective herbicide for control of many annual grasses and certain broadleaf weeds in field corn, white corn, corn grown for silage, field corn grown for seed and soybean. Flufenacet 500 SC may be applied preplant surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence. Flufenacet 500 SC 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. Flufenacet 500 SC controls weeds by interfering with seedling emergence and early development.

Flufenacet 500 SC may be applied using either water or sprayable fluid fertilizer as a liquid carrier or be impregnated and applied on dry bulk fertilizer.

Flufenacet 500 SC 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 Flufenacet 500 SC or recommended tank mixtures may reduce effectiveness. Cultivate if weeds develop.

GENERAL USE RESTRICTIONS

Flufenacet 500 SC is for use on field corn, white corn, corn grown for silage, field corn grown for seed, and soybean. Do not use on popcorn or sweetcorn.

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 Flufenacet 500 SC.

Do not apply more than 24 fluid ounces Flufenacet 500 SC per acre per use season in corn and 14 ounces per acre per use season in soybeans.

Do not apply Flufenacet 500 SC or Flufenacet 500 SC tank mixtures when environmental conditions may favor drift to non-target sites.

Corn seed should be planted a minimum of 1-1/2 inches deep. Soybean seed should be planted a minimum of 1 inch deep.

If any crop treated with Flufenacet 500 SC is lost, corn or soybeans may be replanted immediately. Do not make a second application of Flufenacet 500 SC.

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 takes 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 Flufenacet 500 SC are determined 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 CropScience 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	Loam	Silty clay loam
. Loamy sand	Silt loam	Silty clay
Sandy loam	Silt	Clay loam
	Sandy clay loam	Clay
	Sandy clay	_

MIXING INSTRUCTIONS

LIQUID CARRIERS:

Flufenacet 500 SC is a flowable herbicide that must be mixed in water or sprayable fluid fertilizer. Compatibility of Flufenacet 500 SC or its labeled tank mix products with these liquid carriers should always be determined 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 Flufenacet 500 SC 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.

For optimum spray tank mixing and efficacy, Flufenacet 500 SC is recommended to be added to the spray tank via an eductor system.

The proper mixing sequence for Flufenacet 500 SC 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.
- 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.
- 5. Next add the recommended quantity of Flufenacet 500 SC through the eductor or to the spray tank [slowly add Flufenacet 500 SC if water or sprayable grade nitrogen fertilizers (28-0-0, 32-0-0) 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].
- 6. If tank mixing with wettable powders or dry flowable products in water, they may be added now.
 If tank mixing these products in a sprayable fertilizer carrier, first make a slurry of the products with water and then add the slurry slowly to the spray tank.
- 7. If tank mixing with emulsifiable concentrates or soluble products, add the products to the spray tank.
- 8. If tank mixing with Gramoxone Extra®, a glyphosate- containing product or Touchdown®, add the products to the spray tank.
- 9. If mixing spray adjuvants in the mixture, add them after all other products have been mixed.
- 10. Fill the spray tank to the desired level with the appropriate liquid carrier.
- 11. Continue agitation during transport and application until the spray tank is empty.

Flufenacet 500 SC 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:

Flufenacet 500 SC 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 Flufenacet 500 SC 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: Flufenacet 500 SC 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:

Band width in inches X Broadcast rate = Band rate

Row width in inches per acre 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

Flufenacet 500 SC 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. Flufenacet 500 SC 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, Flufenacet 500 SC 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 split 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 split application. If weeds are present at the time of application, apply the Flufenacet 500 SC 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 prior to or during planting, as weed control may be reduced.

Preplant Incorporation: Apply Flufenacet 500 SC 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: Flufenacet 500 SC 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 Flufenacet 500 SC with a nonselective herbicide such as Gramoxone Extra, a glyphosate-containing product or Touchdown. Rainfall and/or overhead sprinkler irrigation is necessary to move Flufenacet 500 SC 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.

Special Applications: Fall Application (for use only in IA, MN, ND, SD, WI, north of Route 20 in NE, north of Route 136 in IL, and north of Interstate 70 in OH):

Following harvest of crops in the fall, Flufenacet 500 SC may be applied to crop stubble after October 15, when the sustained soil temperature at the four-inch soil depth is less than 50 oF, but before the ground is frozen. This application is limited to only medium-and fine-textured soils with an organic matter of 2.5% or greater and which will be planted to corn the following spring. The soil may be tilled before or after application with incorporation depth no more than two to three inches following herbicide application. If a spring application of Flufenacet 500 SC follows the fall application, the total Flufenacet 500 SC rate for both applications must not exceed 24 fluid ounces.

CORN (Field and Seed)

Flufenacet 500 SC flowable herbicide is a selective herbicide for control of most annual grasses and selected annual broadleaf weeds in corn. 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 incorporated and preemergence. 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.

Special Precautions (Field Seed Corn Inbreds): Field seed corn inbred lines may vary in their response to Flufenacet 500 SC. Do not apply Flufenacet 500 SC to inbreds without first verifying with your local seed corn company (supplier) the Flufenacet 500 SC selectivity on your inbred line.

WEED SPECIES CONTROLLED BY FLUFENACET 500 SC

Flufenacet 500 SC herbicide applied at recommended dosages and application timings will control many important annual grasses and broadleaf weeds.

WEEDS CONTROLLED			
ANNUAL GRASS WEEDS			
Barnyardgrass Johnsongrass (seedling)			
Crabgrass, large	Lovegrass, India		
Crabgrass, smooth	Panicum, browntop		
Foxtail, giant	Panicum, fall		
Foxtail, green	Signalgrass, broadleaf		
Foxtail, yellow	Witchgrass		
Goosegrass			
	ANNUAL BROADLEAF WEEDS		
Carpetweed	Pusley, Florida		
Purslane, common	Purslane, common Spurge, spotted		

WEED SPECIES PARTIALLY CONTROLLED BY FLUFENACET 500 SC

Flufenacet 500 SC 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		
Cupgrass, woolly	Panicum, Texas	
Millet, wild-proso	Sandbur, field	
Nutsedge, yellow	Shattercane	
	ANNUAL BROADLEAF WEEDS	
Beggarweed, Florida	Ragweed, common	
Lambsquarters, spp.	Sida, prickly	
flustard spp. Waterhemp, common		
Nightshade, eastern black	lightshade, eastern black Waterhemp, tall	
Pigweed spp.		

FLUFENACET 500 SC USE RATES IN FALL, PREPLANT SURFACE, PREPLANT INCORPORATED AND PREEMERGENCE APPLICATIONS

For FALL Application (For use only in IA, MN, ND, SD, WI, north of Route 20 in NE, north of Route 136 in IL, and north of Interstate 70 in OH):

After October 15, when the sustained soil temperature at the four inch soil depth is less than 50 oF, Flufenacet 500 SC may be applied to remaining crop stubble following harvest. In conservation, minimum and no-tillage systems on soils having 2.5% organic matter or greater, apply Flufenacet 500 SC at 22 to 24 fluid oz/A on medium textured soils and 24 fluid oz/A on fine textured soils. Apply before the ground is frozen. The soil may be tilled before or after application with an incorporation depth no more than two to three inches following the fall application. Minimize furrow and ridge formation in the tillage operations after application of Flufenacet 500 SC. If a spring application is made, the total rate of both fall and spring must not exceed the maximum total rate for com, or illegal residues may occur.

For CONVENTIONAL Tillage Systems With Applications Made TWO WEEKS OR LESS Preplant Surface, Preplant Incorporated or Preemergence:

Recommended Flufenacet 500 SC 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.

FLUFENACET 500 SC USE RATES IN CONVENTIONAL TILLAGE APPLICATIONS MADE TWO WEEKS OR LESS PREPLANT SURFACE, PREPLANT INCORPORATED OR PREEMERGENCE. FLUFENACET 500 SC RATE (FL. OZ. PER ACRE)14 SOIL SOIL ORGANIC MATTER CONTENT **TEXTURAL** Less than 3% 3% or More **GROUP** ¹ COARSE 14 fl oz 16 fl oz **MEDIUM** 16 to 18 fl oz 18 to 21 fl oz **FINE** 21 to 23 fl oz 21 to 24 fl oz

- Use the higher rate of Flufenacet 500 SC 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).
- 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 Flufenacet 500 SC 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 Flufenacet 500 SC treatments.

FLUFENACET 500 SC USE RATES IN CONSERVATION, MINIMUM, AND NO-TILLAGE SYSTEMS; OR CONVENTIONAL TILLAGE SYSTEMS WITH APPLICATIONS GREATER THAN TWO WEEKS PREPLANT SURFACE.

FLUFENACET 500 SC RATE (FL. OZ. PER ACRE)12

SOIL	SOIL ORGANIC MATTER CONTENT	
TEXTURAL GROUP	Less than 3%	3% or More
COARSE	15 fl oz	17 fl oz -
MEDIUM	18 to 21 fl oz	21 to 23 fl oz
FINE	23 to 24 fl oz	23 to 24 fl oz

- Use the higher rate of Flufenacet 500 SC within the applicable rate range under any of the following conditions: heavy surface plant residues, heavy weed pressure an/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.

FLUFENACET 500 SC TANK MIXTURES

Flufenacet 500 SC 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 Flufenacet 500 SC 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 Flufenacet 500 SC include:

Atrazine	Clarity®	Prowl®	Roundup Ultra®
Axiom	Epic	Python® .	2,4-D
Balance®	Extrazine II®	Marksman®	Sencor®
Balance Pro®	Glyphosate	Eradicane®	Touchdown®
Bladex®	Hornet®	Gramoxone Extra®	
Banvel®	Pentagon®	Roundup®	

FLUFENACET 500 SC SEQUENTIAL APPLICATIONS

Sequential herbicide applications either before or following Flufenacet 500 SC treatments may be used to control additional weeds. Herbicides recommended for sequential applications include:

		·	
Atrazine	Bladex®	Glyphosate	Python®
Accent®	Bromoxynil	Gramoxone Extra®	Resolve®
Accent® Gold	Bromoxynil +Atrazine	Hornet®	Resource®
Aim®	Buctrik®	Laddok S-12®	Roundup®
Balance®	Buctril® + Atrazine	Liberty®	Roundup Ultra®
Balance Pro®	Buctril® Gel	Lightning®	Scorpion III®
Banvel®	Callisto®	Marksman®	Sencor®
Basagran®	Clarity®	Northstar®	Spirit®
Basis®	Contour®	Permit®	Touchdown®
Basis Gold®	Distinct®	Poast®	Tough®
Battalion®	Exceed®	Prowl®	2,4-D
Beacon®	Extrazine II®	Pursuit®	

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

SOYBEAN

Flufenacet 500 SC is a selective herbicide for control/suppression of most annual grasses in soybeans. Flufenacet 500 SC 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 form the soil.

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

WEED SPECIES CONTROLLED BY FLUFENACET 500 SC

Flufenacet 500 SC herbicide applied alone at the recommended dosages and application timings will provide control of certain annual

WEEDS CONTROLLED' ANNUAL GRASS WEEDS		
Barnyardgrass	Foxtail, yellow	
Crabgrass, large	Goosegrass	
Crabgrass, smooth	Lovegrass, India	
Foxtail, giant	Panicum, fall	
Foxtail, green		

¹ Full season weed control will be achieved only on coarse textured soils using the maximum 14 ounce use rate. Use rates of 8 to 14 ounces will provide only early season weed control on all other soil textures. To complement early season weed control, Flufenacet 500 SC 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 FLUFENACET 500 SC

Flufenacet 500 SC 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	Signalgrass, broadleaf	
Panicum, browntop Shattercane		
Sandbur, field Witchgrass		

FLUFENACET 500 SC USE RATES

The recommended use rates for Flufenacet 500 SC applied alone, in tank mix combination with and/or sequentially with other herbicides for all application methods and timings is 8 to 14 fluid ounces per acre. The 14 fluid ounce rate of Flufenacet 500 SC 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 14 fluid ounces will provide only early season weed control on all soil textures. To complement this early season weed control, Flufenacet 500 SC should be used in tank-mixture or sequentially with other herbicides that provide additional control of these weed species.

FLUFENACET 500 SC TANK MIXTURES

Flufenacet 500 SC 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 Flufenacet 500 SC 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 Flufenacet 500 SC include:

Authority Broadleaf®	Gauntlet®	Prowl®	Sonolan HFP®
Canopy®	Glyphosate	Pursuit®	Touchdown®
Canopy XL®	Gramoxone Extra®	Roundup®	Trifluralin
Classic® DF	Linuron (Lorox® and	Roundup Ultra®	Turbo®
Command®	others)	Scepter®	•
FirstRate®	Pentagon®	Sencor® (Metribuzin)	

^{*}Refer to the 2,4-D LVE label for soybean planting interval restrictions following application.

FLUFENACET 500 SC SEQUENTIAL APPLICATIONS

Sequential herbicide applications may be used in a Flufenacet 500 SC weed control program to control additional weeds. Herbicides recommended for use either before or following Flufenacet 500 SC treatments include:

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

Refer to the above tank mixture and sequential application information and the individual product labels 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 Flufenacet 500 SC. Do not graze or feed to livestock the forage or fodder of cotton planted 5 months after an Flufenacet 500 SC application.

Waiting period after Flufenacet 500 SC herbicide application before the following crops can be planted.

Immediately		
Com		
Soybean		
1 month		-
Potato		
4 months	·	
Cabbage	Lettuce	Sugar beets
Carrots	Peppers	All other leafy
Cotton	Radish	vegetables
12 months		
Alfalfa	Millet, pearl	Triticale
Barley	Millet, prose	Wheat
Bermudagrass	Oats	Wild Rice
Bluegrass	Popcorn	All other crops
Bromegrass	Rice	f .
Buckwheat	Rye	
Clover	Sorghum]
Fescue	Teosinte	

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 the liquid carrier (water or liquid fertilizer) to a one-quart jar fitted with a tight lid.
- 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 carrier (water or 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. Reagitate the mixture and observe the mixture for signs of phase separation, flakes, particles, 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 components of the solution are still incompatible, the mixture should not be attempted for use in the spray tank.
- 8. Contact your Bayer representative for further recommendations on testing spray solution compatibilities.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer may be impregnated or coated with Flufenacet 500 SC for applications to corn and soybeans. Follow all Flufenacet 500 SC 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 Flufenacet 500 SC 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 Flufenacet 500 SC needed per ton of fertilizer applied.

Fluid Oz. Flufenacet 500 SC per acre x 2000 = Fluid Oz. Flufenacet 500 SC

Pounds fertilizer per acre

per ton fertilizer

Impregnation: Flufenacet 500 SC 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 Flufenacet 500 SC on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Mix Flufenacet 500 SC 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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IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warrantles and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

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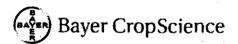
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