

83529-39

10/20/2014

1/15



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

83529-39

Date of Issuance:

10/20/2014

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Flufenacet 500 SC Herbicide

Name and Address of Registrant (include ZIP Code):

James Wagner
Sharda USA, LLC
c/o Wagner Regulatory Associates
PO Box 640
Hockessin, DE 19707

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 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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

Daniel Kenry, Chief
Herbicide Branch, Registration Division (7505P)

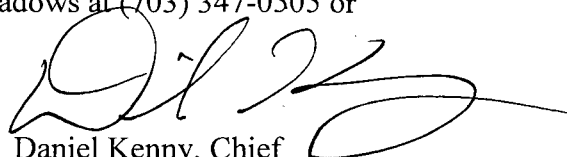
Date:

10/20/2014

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 3/10/2014

If you have any questions, please contact Sarah Meadows at (703) 347-0505 or meadows.sarah@epa.gov.



Daniel Kenny, Chief
Herbicide Branch
Registration Division (7505P)

3/15

GROUP 15 HERBICIDE

FLUFENACET 500 SC HERBICIDE

ACCEPTED

OCT 20 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under ~~83529-39~~

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

ACTIVE INGREDIENT:

Flufenacet	
N-(4-Fluorophenyl)-N-(1-methylethyl)-2-[[5--(trifluoromethyl)-1,3,4-thiadiazol-2-yl]-oxy]acetamide.....	42.09%
OTHER INGREDIENTS:	57.91%
TOTAL:	100.0%

Contains 4.1 lbs./gal. (500 g/L) of Flufenacet

STOP
READ THE LABEL BEFORE USE
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.)*

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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.

HOTLINE

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For 24-hour medical emergency assistance (human or animal) call **1-800-222-1222**. For chemical emergency assistance (spill, leak, fire, or accident) call: **CHEMTREC 1-800-424-9300**.

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

EPA Reg No. 83529-39

EPA Est. No.

Manufactured for:

Sharda USA LLC 

7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

Net Contents:

4/15

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. May be fatal if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment:

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- 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 wash waters or rinsate. 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.

INTEGRATED PEST MANAGEMENT

This product may be applied as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

5/15

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of resistant weed biotypes cannot be achieved. If weed control is inadequate, it may be necessary to re-treat problem areas using a product that affects a different site of action.

To delay the proliferation and possible dominance of herbicide-resistant weed biotypes and better manage herbicide resistance, change cultural practices within and between crop seasons, by using a combination of tillage, re-treatment, tank mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that go to seed will promote the spread of resistant biotypes.

Keep accurate records of pesticide products applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide application methods available in your area.

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:

- Coveralls
- 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.

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

CONTAINER DISPOSAL: [Nonrefillable Containers 5 Gallons or Less] Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or

6/15

disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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.

[Nonrefillable containers larger than 5 gallons] Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. 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.

PRODUCT 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, sweet corn, and soybeans. FLUFENACET 500 SC can be applied preplant surface, preplant incorporated (mix into the top 1 to 2 inch layer of soil) and preemergence and/or early postemergence. 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.

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

Apply FLUFENACET 500 SC 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 specified tank mixtures can reduce effectiveness. Cultivate if weeds develop.

If any crop treated with FLUFENACET 500 SC is lost, corn or soybeans may be replanted immediately.

RESTRICTIONS

Do not use on popcorn.

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 25 fluid ounces FLUFENACET 500 SC per acre per use season in corn and 14 ounces per acre per use season in soybeans.

Do not make a postemergence application of FLUFENACET 500 SC to corn beyond the 5th leaf collar growth stage (begin count with the 1st leaf-rounded tip).

Do not harvest corn forage (silage) within 75 days after a postemergence application.

Do not apply FLUFENACET 500 SC or FLUFENACET 500 SC tank mixtures when environmental conditions may favor drift to non-target sites. Corn seed must be planted a minimum of 1-1/2 inches deep. Soybean seed must be planted a minimum of 1-inch deep.

Do not make a second application of FLUFENACET 500 SC.

Do not mix or load this product 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 wash water, 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

7/15

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 application 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 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, add FLUFENACET 500 SC to the spray tank via an eductor system. The proper mixing sequence for FLUFENACET 500 SC and specified 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.
5. Next add the specified 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 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.

Keep FLUFENACET 500 SC and all registered mixtures agitated once mixed, and then spray immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture affect how long the mixture may stand before application.

DRY FERTILIZER CARRIERS:

FLUFENACET 500 SC can be impregnated or coated on dry bulk fertilizers for application. Refer to Appendix II of this label for details.

8/15

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. Apply with 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 must not be less than the minimum volume specified by the tank mix product or 10 gallons, whichever is greater. Use screens to protect the pump and nozzles. Screens placed on the suction side of the pump must 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 instructions. 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 can 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

Apply FLUFENACET 500 SC alone or in tank mixtures with or sequentially with certain other registered herbicides. Apply preplant surface, preplant incorporated or preemergence. Use FLUFENACET 500 SC 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, apply FLUFENACET 500 SC alone or as a specified tank mixture as a broadcast spray up to 45 days before planting in corn and 14 days before planting in soybeans. Make a split application if application is made 30 to 45 days prior to planting, where 2/3 of the highest specified 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 can 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 nonselective herbicide such as 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 can be reduced.

Preplant Incorporation: Apply FLUFENACET 500 SC alone or in combination with specified 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 can result. Incorporate with implements which provide uniform, shallow incorporation (example -finishing disk, harrow, rolling cultivator, etc.)

Preemergence: Apply FLUFENACET 500 SC alone or in specified tank mixes 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 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 can 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 can reduce weed control.

Early Postemergence: When used as an early postemergence treatment, apply FLUFENACET 500 SC once per use season alone or in combination with or sequentially with certain herbicides. Use of an adjuvant may be necessary in some applications. Refer to crop sections of the label for specific information.

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, apply FLUFENACET 500 SC to crop stubble after October 15, when the sustained soil temperature at the four-inch soil depth is less than 50°F, 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 25 fluid ounces.

CORN (Field, Seed, and Sweet)

FLUFENACET 500 SC herbicide is a selective herbicide for control of most annual grasses and selected annual broadleaf weeds in corn. A single or split application program can be used and the product can 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 and

9/15

early postemergence. 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 inbred lines and sweet corn varieties 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 HERBICIDE

FLUFENACET 500 SC herbicide applied at specified 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	Spurge, spotted

WEED SPECIES PARTIALLY CONTROLLED BY FLUFENACET 500 SC HERBICIDE

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
Mustard spp.	Waterhemp, common
Nightshade, eastern black	Waterhemp, tall
Pigweed spp.	

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

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°F, apply FLUFENACET 500 SC 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 23 to 25 fluid oz./A on medium textured soils and 25 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 corn, or illegal residues may occur.

10/15

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

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. Do not use on peat or muck soils (soils with 20% or more organic matter).

TABLE 1

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) ¹		
SOIL TEXTURAL GROUP ²	SOIL ORGANIC MATTER CONTENT	
	Less than 3%	3% or More
COARSE	15 fl. oz.	17 fl. oz.
MEDIUM	17 to 19 fl. oz.	19 to 22 fl. oz.
FINE	22 to 24 fl. oz.	22 to 25 fl. oz.

¹ 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 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:

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 a glyphosate-containing product or Touchdown used at specified rates may be mixed with FLUFENACET 500 SC treatments. Do not use on peat or muck soils (soils with 20% or more organic matter).

TABLE 2

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) ¹		
SOIL TEXTURAL GROUP ²	SOIL ORGANIC MATTER CONTENT	
	Less than 3%	3% or More
COARSE	16 fl. oz.	18 fl. oz.
MEDIUM	19 to 22 fl. oz.	22 to 24 fl. oz.
FINE	24 to 25 fl. oz.	24 to 25 fl. oz.

¹ 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 For more information, refer to the "Rate Selection/Soil Texture" section of this label.

FOR EARLY POSTEMERGENCE APPLICATIONS:

FLUFENACET 500 SC Herbicide use rates are located in Table 1.

Apply FLUFENACET 500 SC alone and/or certain FLUFENACET 500 SC tank mixtures to corn from emergence through the 5th leaf collar growth stage. Begin leaf count with the first leaf (rounded tip). FLUFENACET 500 SC alone will not provide control of emerged weeds. For control of emerged weeds, tank mix FLUFENACET 500 SC with approved postemergence herbicides. Read and follow all precautions/restrictions and directions on tank mix partner labels.

Corn treated with FLUFENACET 500 SC early postemergence can be harvested for forage (silage) 75 days or more after treatment.

11/15

Adjuvants for early postemergence:

The adjuvant types listed below may be utilized with FLUFENACET 500 SC Herbicide.

UAN (urea ammonium nitrate) is commonly referred to as 28, 30, or 32%N. UAN can be used as an adjuvant in certain herbicide tank mixtures with FLUFENACET 500 SC, or as a spray carrier for FLUFENACET 500 SC. Fluid fertilizers applied after crop emergence can result in crop tissue "burn" symptoms. Do not use fluid fertilizer as a postemergence spray carrier to apply FLUFENACET 500 SC if fluid fertilizer burn is not considered acceptable.

Ammonium sulfate (spray grade) is an alternative to UAN as a spray solution adjuvant with certain tank mixture partners.

When tank mixing FLUFENACET 500 SC Herbicide with other herbicides be certain to select adjuvants specified and compatible for use with all herbicides included in the tank mixture.

FLUFENACET 500 SC TANK MIXTURES

Apply FLUFENACET 500 SC in tank mixture with certain herbicides to improve control of broadleaf weeds such as velvetleaf, common cocklebur and morning glory species provided that the other herbicide is registered on soybeans and that the tank mix product does not prohibit such mixing. Use mixtures 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 specified use rates, precautions and/or restrictions.**

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. Herbicides recommended for tank mixtures with FLUFENACET 500 SC include:

Atrazine	Clarity®	Python®	2,4-D
Axiom	Epic	Marksman®	Sencor®
Balance®	Glyphosate	Eradicane®	Touchdown®
Balance Pro®	Hornet®	Roundup® Roundup Ultra®	
Banvel®	Prowl®		

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	Beacon®	Hornet®	Resource®
Accent®	Bromoxynil	Liberty®	Roundup®
Accent®	Bromoxynil +Atrazine Buctril®	Lightning®	Roundup Ultra®
Gold Aim®	Buctril® + Atrazine Buctril®	Marksman®	Scorpion III®
Balance®	Gel Callisto®	Northstar®	Sencor®
Balance Pro®	Clarity®	Permit®	Spirit®
Banvel®	Distinct®	Poast®	Touchdown®
Basagran®	Exceed®	Prowl®	2,4-D
Basis®	Glyphosate	Pursuit®	
Basis Gold®		Python®	
Battalion®		Resolve®	

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. Apply FLUFENACET 500 SC 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. Apply the preplant surface and preplant incorporated treatments 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 FLUFENACET 500 SC HERBICIDE

FLUFENACET 500 SC herbicide applied alone at the specified dosages and application timings will provide control of certain annual grasses.

12/15

WEEDS CONTROLLED ¹ 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 HERBICIDE

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 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, use FLUFENACET 500 SC in tank-mixture or sequentially with other herbicides that provide additional control of these weed species.

FLUFENACET 500 SC TANK MIXTURES

Apply FLUFENACET 500 SC in tank mixture with certain herbicides to improve control of annual grasses and/or broadleaf weeds such as velvetleaf, common cocklebur and morning glory species provided that the other herbicide is registered on soybeans and that the tank mix product does not prohibit such mixing. Mixtures can be used in either conventional, conservation, minimum and no-tillage systems. They can 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 use rates, precautions and/or restrictions.

The following herbicides can be tank-mixed with FLUFENACET 500 SC provided the product to be tank-mixed is registered for use on this site. Herbicides recommended for tank mixtures with FLUFENACET 500 SC include:

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

13/15

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

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 INSTRUCTIONS

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

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

APPENDIX I

SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

Perform a compatibility test for all applications with liquid fertilizers. Prior to mixing products in the spray tank, mix small quantities of each product 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.
2. Add the appropriate amount of herbicide. If more than one product is used, the 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.

14/15

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. 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, use a compatibility agent in the spray mixture at its specified rate.
7. If the components of the solution are still incompatible, do not use the mixture in the spray tank.

Contact your Sharda USA LLC representative for further recommendations on testing spray solution compatibilities.

APPENDIX II

IMPREGNATION AND APPLICATION ON DRY FERTILIZER

Dry bulk fertilizer can be impregnated or coated with FLUFENACET 500 SC for applications to corn and soybeans. Follow all FLUFENACET 500 SC label restrictions, special instructions and precautions. All state regulations relating to dry bulk fertilizer blending, impregnating and labeling must also be followed.

Rates: Select the specified 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.

$$\frac{\text{Fluid Oz. FLUFENACET 500 SC per acre} \times 2,000}{\text{Pounds fertilizer per acre}} = \frac{\text{Fluid Oz. FLUFENACET 500 SC}}{\text{per ton fertilizer}}$$

Impregnation: FLUFENACET 500 SC can 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. Direct spray nozzles to provide uniform fertilizer coverage while avoiding spray contact with mixing equipment. Non-uniform 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, apply one-half the specified rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

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.

LIMIT OF WARRANTY AND LIABILITY

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise. Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or

15/15

the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company. For over the-top uses on Roundup Ready® crop varieties crop safety and weed control performance are not warranted by Sharda USA LLC when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY, which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

Axiom, Balance, Buctril, Liberty, Option, Epic, and Sencor are registered trademarks of Bayer.

Banvel®, Basagran®, Clarity®, Distinct®, Galaxy®, Lightning®, Marksman®, Passport®, Poast®, Poast Plus®, Prowl®, Pursuit®, Raptor®, Resolve®, Scepter®, and Storm® are trademarks of BASF Corporation.

FirstRate®, Hornet®, Python®, Scorpion III® and Sonalan HFP® are trademarks of Dow Agro Sciences.

Accent®, Accent® Gold™, Assure II®, Basis®, Basis Gold®, Canopy®, Canopy XL®, Classic®, Concert®, Extrazine II®, Lorox®, Pinnacle®, Reliance STS® and Synchrony STS® are trademarks of DuPont.

Aim®, Authority Broadleaf®, Command® and Gauntlet® are trademarks of FMC Corporation.

Battalion®, Permit®, Roundup® and Roundup Ultra®, are trademarks of Monsanto.

Beacon®, Callisto™, Eradicane®, Exceed®, Flexstar®, Fusilade®, Fusion®, Northstar®, Reflex®, Spirit® Tornado® and Touchdown® are trademarks of Syngenta.

Cobra®, Resource® and Select® are trademarks of Valent.