279-3220

09/29/2003

SEP 2 9 2003

Callista O. Chukwunenye FMC Corporation 1735 Market St. Philadelphia, Penn. 19103

Dear Dr. Chukwunenye:

SUBJECT: Add Use on Peanuts, Sugarcane, Sunflower, Mint, Horseradish, Cabbage, Potatoes, Succulent Lima Bean, Asparagus, Dry Bean, Dry Pea, Field Corn, and Popcorn Spartan 4F Herbicide EPA Registration No. 279-3220

The amendment referred to above, submitted in connection with registration under section 39c)(7)(A) and (B) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for the registration/reregistration review of your product when the Agency requires all registrants of similar products to submit such data.

2. Under the agricultural use requirements box add the following statement: "This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures."

3. Add the following "Spray Drift Management Statement":

"Do not apply under circumstances where possible drift to unprotected persons or to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur.

Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. For groundboom and aerial applications, use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.

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Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy."

4. Submit one copy of the revised final printed label for the record.

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

Sincerely yours,

vanne D. Miller

Joanne I. Miller Product Manger (23) Herbicide Branch Registration Division (7505C)

Enclosure



4F Herbicide

For Agricultural or Commercial Use Only

EPA Reg. No. 279-3220	EPA Est. 279-
Active ingredient:	By Wt.
Sulfentrazone*	
Inert Ingredients:	<u>60.4%</u>

100.0% *N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide Contains 4 pounds of active ingredient per gallon. U.S. Patent No. 4,818,275

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-tomouth, if possible. Call a poison control center or doctor for further treatment advice.

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.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

For Emergency Assistance Call (800) 331-3148.

See other panels for additional precautionary information.



FMC Corporation **Agricultural Products Group** Philadelphia PA 19103 Spartan4F_3_9-18-2002_rev

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals)

Caution

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through sidn. Avoid breathing vapor or spray mist. Avoid contact with skin, eves or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such structions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations: Users should:

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This pesticide is toxic to marine/estaurine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

Groundwater advisory: This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not use on coarse soils classified as send which have less than 1% organic matter.

Surface water advisory: Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow manuface many with field carels or disher the total drain to surface groundwater, 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 over-lying the drainage systems that drain to surface

Physical/Chemical Hazards

Do not use or store near heat or open flame.

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Read all of the label prior to use.

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ACCEPTINE WER COMPLETE In EPA Letter Dated SEP 2 9 2003

Under the Federal Insecticide. Fundicide, and Bodeuttaide Act Fundicite, and Contrast of the proticide registered antigr ET Reg. No.

DIRECTIONS FOR USE

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it is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product by air or through any type of irrigation system.

Do not apply Spartan 4 F more than once per season.

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 contains specific matteriors 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.

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: Coverails over long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

STORAGE AND DISPOSAL

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

enticide Storage

Store product in original container only, away from other pesticides, fertilizer, food or feed.

Do not store below 40° F (4° C).

Store in a cool, dry place and avoid excess heat.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-314R

To confine spill: If liquid, dike surrounding area or absorb with sand, cat littler or commercial clay. If dry material, cover to prevent dispensal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control ency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container Disposal

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

Returnable/Refiliable Sealed Container. Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

GENERAL INFORMATION

Spertan 4F is a selective soil-applied herbicide for the control of certain broadlesf weeds, grasses and sedges in tobacco. When applied according to directions, it will provide control of susceptible species. Spartan 4F is a liquid flowable formulation containing 4 pounds of the active incredient. sulfentrazone per gallon.

The mode of action of Spertan 4F involves uptake by weed roots and shoots. Preemergence and preplant incorporated applications of Spertan 4F require rainfail or intigation to activate the herbicide. The amount of rainfail or infigation required for activation following application depends on existing soil moisture, organic matter content and soil texture. If adequate molature (1%" to 1") is not received within 7 to 10 days after the Spantan 4F treatment, a shallow cultivation may be needed to obtain desired weed control. When sufficient moisture is received after dry conditions, Spartan 4F will provide control of susceptible germinating weeds.

Observe all instructions, crop restrictions, mixing directions, application precautions, replanting directions, rotational crop guidelines and other label information of each product when tank mixing with Spartan 4F.

<u>Proper hendling instructions:</u> 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 lekes and reservoirs. This selback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or property diked mbdng/loading areas

Operations that involve mixing, loading rinsing, or washing of this product into or from pasticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad dructed to withstand the weight of the heaviest load that may be 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 washweter, and rainwater that may fail 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 oud shall have a rainfimum containment capacity of 100% of the con the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the capacity or ure impose preuctors container or appreciation 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.

Do not apply this product through any type of inigation system.

Do not use flood irrigation to apply or incorporate this product.

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

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GENERAL APPLICATION INFORMATION

For Use on Tobacco (Burley, Flue-Cured and Dark)

Do Not Use On Shade Grown Tobacco

Ground application only

Utilize a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize nozzles which produce minimal amounts of fine spray droplets. Do not exceed 30 pairs spray pressure unless otherwise required by the manufacturer of drift reducing nozzles. Apply a minimum of 10 gallons of finished spray per acre. Be aware that overlaps and slower ground speeds while starting, stopping or turning while spraying may result in crop response.

Water must be used as the carrier for Spartan 4F when applied alone, or when tank mixed with other tobacco herbicides.

Continuous agitation during application is required. Avoid overlap. Shut off spray booms while turning, slowing or stopping, as over application may result. Avoid letting Spartan 4F sit overnight as settling of product and difficulty of resuspending may occur.

To avoid injury to sensitive crops, spray equipment used for Spartan 4F applications must be drained and thoroughly cleaned with water plus ammonia before being used to apply other products.

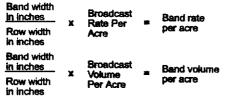
Do not allow spray to drift onto adjacent crops or plants as injury to other plants may occur. To avoid drift, applicators must observe the following precautions:

Spray Drift Precautions

Do not spray when wind speeds exceed 10 mph.

Band Treatment Applications

For band treatment, apply the broadcast equivalent rate and volume per acre. To determine these:



SPRAY TANK PREPARATION

It is important that spray equipment is clean and free of existing pasticide deposits before using Spartan 4F. Follow the spray tank clean out procedures specified on the label of product previously applied before adding Spartan 4F to the tank.

MIXING INSTRUCTIONS

Spartan 4F herbicide may be tank mixed with Command 3ME herbicide for the control of additional weed species. Mbtures with some other tobacco pesticides have not been tested. Conduct an appropriate compatibility test prior to tank mixing with products other than Command herbicide, see below. Follow all precautions and restrictions on the tank mix partner label.

For best results fill spray tank with one fourth of the volume of clean water needed for the field to be treated. Start agitation system, add Spartan 4F per directions under APPLICATION INFORMATION. Continuous spray tank agitation is required at all times to keep the product in suspension. Make sure Spartan 4F is thoroughly mixed before application or before adding another product to the spray tank. For best mixing and application, the preparation of a slurry with water is required before adding Spartan 4F to the spray tank.

For tank mixtures with other tobacco herbicide(s), a jar test should be conducted to ensure product compatibility before full-scale mixing. Provided the jar test indicates the mixture to be compatible, prepare the tank mixture as follows: Fill spray tank one fourth full with veter. With agitstor operating, add the recommended amounts of ingredient: using the following order: dry granules first, liquid suspensions (flowables) kecomo Add EC products followed by water soluble products to tank as agitation: continues and tank is filled with water. All applicable directions, restrictions and precautions for the tank mixture herbicide(s) must be followed.

Use Spartan 4F spray mixture immediately after mixing. Do not store mixture. If Spartan 4F was tank mixed with other toLac.o herbickles, all additional directions, restrictions and precautions for the additional herbickles must also be followed.

Sprayer Equipment Clean-Out:

After spraying Spartan 4F and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

 Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. In addition, thoroughly flush sprayer hoses, boom and nozzles with clean water.

 Fill the tank 1/2 full with clean water, and add appropriate detergent or ammonia (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom, and nozzles.

Drain the sprayer system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately.

 Property dispose of all cleaning solution and rinsate in accordance with Federal, State and local regulations and guidelines.

Do not drain or flush equipment on or near desirable trees or plants. Do not contaminate any body of water including imigation water that may be used on other crops.

APPLICATION INSTRUCTIONS

Spartan 4F Rate Table			
Fluid Ounces of Product per Acre*			
Soli Texture**	% Organic Matter***		
	<u>0-2</u>	<u>2-4</u>	
Coarse	8.0	10.1	
Medlum	10.1	12.0	
Fine	12.0	12.0	

* One gallon of Spartan 4F contains 4 pounds of active ingredient.

** Refer to the information on soil types under the COARSE, MEDIUM and

FINE categories in the lists below.

*** Do not apply Spartan 4F to soils classified as sand with less than 1% Organic Matter.

<u>COARSE</u> Sand Loamy sands Sandy loams	MEDIUM Loams Sitt loams Sitts	EINE Sitty clay loarns Sandy clay loarns Sitty clays Sandy clays Clay loarns Clay loarns
		Clays

Spartan 4F may be surface applied or preplant incorporated (to a depth no greater than 2 inches) from 12 hours to 14 days prior to transplanting tobacco. Incorporating Spartan 4F deeper than 2 inches can result in inconsistent weed control.

Research has demonstrated that two passes across the field with a disc/cultivator after application results in sufficient and uniform incorporation of Spartan. Incorporation of Spartan too deeply in the soil may result in reduced weed control.

For best performance a tankmix of Spartan 4F plus Command Herbicide is recommended.

Broadcast apply the appropriate Spartan 4F rate from the table above, in a minimum of 10 gallons per acre of water, to the soil prior to setting transplants as follows:

Non-Bedded - Fields where raised beds are <u>NOT</u> formed prior to transplanting:

Perform all accepted cultural practices for land preparation, fertilizer/fungicide incorporation, etc. prior to the application of Spertan 4F. Once the field has been prepared for planting, Spartan 4F may be surface applied or lightly preplant incorporated from 12 hours to 14 days prior to transplanting.

If Spertan 4F is surface applied and it is necessary to remove equipment tracks from the field after application but prior to transplanting, any light finishing equipment may be used providing the soil is not disturbed to a depth greater than 2 inches.

Bedded - Fields where raised beds <u>ARE</u> formed prior to transplanting:

Apply Spartan 4F to formed bads as a surface application from 12 hours to 14 days prior to transplanting. If it is customary to drag/knock down bads prior to transplanting, this procedure must be performed prior to the Spertan 4F application.

When incorporating prior to bedding, Spartan 4F must be thoroughly and unic.ml/ incorporated to a depth no greater than 2 inches to avoid concentrating Spartan 4F in the bed.

If initial transplanting fails to produce a uniform stand, tobacco may be replanted. DO NOT re-treat field with a second application of Spartan 4F, and DO NOT re-bed. Re-transplant into previously formed, treated beds.

APPLICATION WITH DRY BULK FERTILIZERS

Spartan 4F may be impregneted on dry bulk fertilizers. When applied as directed, Spartan 4F/dry bulk fertilizer mixtures provide weed control equal to that provided by the same rates of Spartan 4F applied in water.

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Follow all Spartan 4F label recommendations regarding rates per acre, registered crops, incorporation, special instructions and precautions. Apply Spartan 4F/dry bulk fertilizer modures only with ground equipment.

All individual state regulations relating to dry bulk fartilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the Spartan 4F/dry fartilizer mbdure.

A minimum of 200 pounds of dry bulk fertilizer impregnated with the recommended amount of Spartan 4F must be applied per acre.

DO NOT impregnate Spartan 4F onto coated ammonium nitrate or imestone because these materials will not absorb the herbicide. Dry fertilizer blends containing mbdures of 200 pounds of impregnated dry bulk fertilizer, excluding the weight of ammonium nitrate or limestone, must be applied per scre.

Refer to the appropriate crop section in Spartan 4F label to determine the rate of Spartan 4F per acre. Use the following table to determine the amount of Spartan 4F to be impregnated on a ton of dry bulk fertilizer based on the rate of fertilizer which will be applied per acre.

For those rates not listed in the following table, calculate the fluid ounces of Spartan 4F to be impregnated on a ton of dry bulk fertilizer using the following formula:

2000	Rate in	FL. OZ. of
pounds dry	x FL. OZ. of Spertan	- · · ·
fertilizer	per acre	of fertilizer
Der acre		

RATE CHART FOR IMPREGNATION OF DRY BULK FERTILIZERS WITH SPARTAN 4F HERBICIDE

FLUID OUNCES OF SPARTAN 4F PER TON OF FERTILIZER

Fertilizer	Spartan 4F Rate Per Acre			
Rate Lbs./Acre	8.0 Fl. Oz./acre	10.1 Fl. Oz./acre	12.0 Fl. Oz./acre	
200	80*	101	120	
250	64	80.8	96	
300	53.3	67.3	80	
350	45.7	57.7	68.6	
400	40	50.5	60	
450	35.6	44.9	53.3	

*FLUID OUNCES OF SPARTAN 4F PER TON OF FERTILIZER

To impregnate Spartan 4F on bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment. Spray nozzles must be placed to provide uniform coverage of Spartan 4F onto the fertilizer during mixing.

Apply the Spartan 4F/dry bulk fertilizer mbdure with an accurately calibrated dry fertilizer spreader. The Spartan 4F /dry bulk fertilizer mbdure must be spread uniformly on the soil surface. Uneven spreading can cause poor weed control and crop injury.

Refer to incorporation instructions for incorporation directions.



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SUGARCANE

Application Instructions

Apply Spartan 4F as a broadcast or banded preemerge soil applied treatment for the control of broadleaf weeds, grasses and sedges in sugarcane.

Planting Applications

Apply Spartan 4F preemerge at 0.313 to 0.375 lbs ai/a to newly planted or ratoon sugarcane. Use the higher rate on clay soils and/or soils with organic matter content higher than 2 percent.

Apply either by air in a minimum of 5 gallons of spray per acre or by ground equipment in a minimum of 15 gallons of spray per acre. Spartan 4F may be applied with other preemerge herbicides registered for use in sugarcane.

Lay-by Applications

Apply Spartan 4F at 0.313 to 0.375 ibs ai/a as a directed spray to sugarcane at lay-by timing for control of broadleaf weeds. Use the higher rate on day soils and/or soils with organic matter content higher than 2 percent. Apply with ground equipment in a minimum of 15 gallons of spray per acre. Spartan 4F may be applied with other herbicides registered for use in sugarcane.

Tank Mixture Precautions

When applying this product with other registered herbicides, refer to specific label information on precautions, instructions, limitations, application methods and timings, and weeds controlled.

Mixing Instructions

Spartan 4F herbicide may be tank mixed with other herbicides to provide control of additional weeds. To insure mixture compatibility a jar test prior to tank mixing should be conducted. Follow all instructions and restrictions of the tank mix partner tabel or labels.

Fill the spray tank to one fourth of the volume with clean water. Start the tank agitation system. Add Spartan 4F per the instructions under Application Information. Continuous spray tank agitation is required at all times to keep the product in suspension. Make sure Spartan 4F is thoroughly mixed before application or before adding other products to the spray tank.

For tank mixtures, be sure the tank agitator operating. Then add the recommended amounts of ingredients using the following order: dry granules first, liquid suspensions (flowables) second. Add EC products followed by water-soluble products to tank as agitation continues and tank is filled with water.

Restrictions

Do not apply within 120 days of harvest.

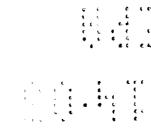
Do not apply more than 0.375 lbs ai of Spartan 4F per acre per crop year.

Do not use treated foliage for feed or forage.

WEEDS CONTROLLED:

When uses as directed, a soil applied treatment of Spartan 4F will provide control or suppression of the following weeds:

BROADLEAVES Amaranth, Palmer Amaranth, spiny Anoda, spurred Beggaweed, Florida Carpetweed Cocklebur, common Copperleaf, Hophombeam Croton, tropic Daisy, American Dayflower, common Galinsoga, hairy Groundcherry, culteaf Jimsonweed Kochia Ladysthumb Lambsquarter, common GRASSES Barnyardgrass* Broadleaf signalgrass Crabgrass, large Crabgrass, smooth Crabgrass, smooth Crabgrass, southern Crowfootgrass* Foxtail, giant* Foxtail, green* Foxtail, green* Foxtail, yellow* Goosegrass Itchgrass* Johnsongrass, seedling* Orchardgrass Panicum, fail Panicum, Texas



SUNFLOWER

Directions for use:

Apply Spartan 4F on conventional tillage or conservation tillage (reduced tillage or no-tillage) cropping systems using rates recommended in the use rate chart below for control or partial control of the following weeds:

Weeds controlled:

Kochia (ALS resistant and susceptable biotypes) Pigweed species Waterhemp species Eastern Black Nightshade Common Lambequarter Russian Thistle Paimer Amaranth Turnble Pigweed Witchgrass

Weeds partially controlled:

Wild Buckwhsat Cocklebur Wild Mustard and other Mustard species Foxtail species Hairy Nightshade Fall Panicum Velvetleaf Common Ragweed Biennial Wormwood Crabgrass Stinkgrass

	COARSE	MEDIUM	FINE
	(sand, loamy sand, sandy loam)	(loam, siit loam, siit)	(silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay)
ORGANIC MATTER	ibs ai/a	ibs ai/a	lbs ai/a
Less than 1.5%	.094125	.125141	.125141
1.5-3.0%	.125141	.141188	.141188
Greater than 3.0%	.141188	.18825	.18825

*Do not use on coarse soils classified as sand which have less than 1% organic matter.

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5 percent) and pH of 7.8 or higher, or on highly eroded (as defined by National Resources Conservation Service) areas, particularly exposed calcareous out croppings, within fields of medium or fine-textured soils. Risk of adverse crop response may be lessened by reducing Spartan 4F use rate on those areas.

Inadequate furrow closure will result in exposure to the herbicide, and may result in an undesirable crop response.

Poor growing conditions such as excessive moisture, cool temperatures, and soli compaction or the presence of various pathogens may impact seedling vigor. Under these conditions the active ingredient in Spartan 4F herbicide, like other soli applied herbicides, can injure sunflowers. However, these early injury symptoms most often are short lived and do not result in yield reduction.

Application guidelines

Preemerge application (PRE) on the soil surface is the recommended application method. However, if incorporating Spartan 4F in the soil (PP!), use light, thorough incorporation with the tillage implement set no deeper than four inches.

Spartan 4F can be applied in the fall preceeding the use season prior to soil freeze up, or anytime prior to planting, but no later than 3 days after planting. Higher rates in the soil type range may be needed for fall application programs. Early preplant application 30-45 days prior to planting may need a burndown herbicide tank mix companion product for control of emerged vegetation. It is recommended that fall and early preplant (EPP) application be made on the soil surface. Avoid soil disturbance at planting if a Spartan 4F application was made on the soil surface prior to planting. If the planting implement does result in considerable soil disturbance, apply Spartan 4F on the soil surface immediately after planting.

Spanar 45 can be used in combination with all other tabeled herbicides. Follow application guidelines for other labeled herbicides. When mixing 'Spanar 45 with Roundup, use full labeled rates of Roundup.

Whén' mixing Spartan 4F, always mix in the tank first before other adjuvants or herbicides. Allow 10 minutes of agitation before adding other products to the spray tank.

PEANUTS

Application Instructions

Spartan 4F may be preplant incorporated (to a depth no greater than 2 inches) up to 14 days prior to planting or Spartan 4F may be applied to the soil surface at or within 12 hours after planting. Incorporation of Spartan 4F deeper than 2 inches can result in adverse crop response and / or inconsistent weed control.

Do not use Spartan 4F for 'at-crack' type applications or apply to exposed peanut tissue. Such use can result in significant adverse crop response.

For best performance, a combination of Spartan 4F plus a grass herbicide labeled for peanuts is recommended. Under conditions of exceptionally high weed populations or when weeds not controlled by Spartan 4F are anticipated, suitable post-emergent peanut herbicides are recommended.

Broadcast apply the correct Spartan 4F use rate from the appropriate Tables below, in a minimum of 10 gallons per acre of water. Banded applications must reduce the Spartan 4F use rate in proportion to the broadcast rate. Do not feed treated peanut forage or peanut hay to livestock.

Spartan - Southeast (AL, FL, GA, NC, SC, VA)

Use Rates and Weeds Controlled¹

Spartan - Applied Alone

4.8 fl.oz (0.15 lb.ai)	6.4 fl.oz. (0.2 lb.ai)	8.0 fl.oz. (0.25 (b.ai)
Amaranth	Amaranth	Anoda, Spurred
Spleen	Palmer	Beggarweed, Florida
Copperleaf, Hophombeam		Cocklebur, Common
Croton, Tropic	Morningglories	Nutsedges
Crownbeard, Golden	Pitted	- Yellow
Lambsquarters, Common	Redweed	Purple
Morningglories	Senna, Coffee	Purstane, Common
Entireleaf	Smartweed, Pennsylvannia	
lvvleaf	Crabgrass ²	Starbur, Bristly
Red (Scarlet)	Large	can beit bridgy
Piqweeds	Smali	Craborass
Redroot	Southern	Large
Smooth	Goosegrass ²	Smail
-	Signalgrass, Broadleaf ²	
Spurges	oignaigrass, proaulear-	Southern
Prostrate		Goosegrass
Spotted		Panicum, Texas ²
Waternemp, Common		Signalgrass, Broadleaf

¹ Use rates are fluid ounces (lbs. active ingredient) per acre. Specified weeds are controlled in light (sandy, loamy sand) soils. Heavy soils (sandy loam, ctay loam) or soils with organic matter greater than 1.5% should use the next higher rate in the table above. The next higher rate for 8.0 fl.oz. (0.25 lb ai) should not exceed 9.6 fl.oz. (0.3 lb ai).

² Partial control or suppression.

Spartan - Southeast (NM, OK, TX)

Use Rates and Weeds Controlled¹

Spartan - Applied Alone

Due to increased solubility of Spartan 4F with increasing soil pH, in southwestern peanut areas, less product should be applied. Selection of the appropriate use rate, from the table below, is dependent on an accurate, representative determination of soil pH in the field to be treated.

When used as directed, a soil applied treatment of Spartan 4F will provide control or suppression of the following weeds:

	Soil pH		
	<6	6-7	>7.0
tan 4F ¹	4.0 fl.oz. (0.125 lb.ai)	3.2 fl.oz. (0.1 lb.ai)	2.4 fi.oz. (0.075 lb.ai)

¹ Fluid ounces (lbs. active ingredient) per acre.

Broadleaf Weeds

Spar

Anoda, Spurred Amaranth Soleer Palmer Cocklebur, Common Copperleaf, Hophombeam Croton, Tropic Crownbeard, Golden Eclipta Lambaquarters, Common Morninggiories Entireleat **Nyler** Red (Scarlet) Pitted Pigweeds Redroot Smooth Pursiane, Common Redweed Senna, Coffee Sida, Prickly Smartweed, PA Spurges Prostrate Spotted Starbur, Bristly Waterhemp, Common

Sedaes

Nutsedges Yeilow Purple

Grasses

Crabgrass

Large Small Southern

Goosegrass Signalgrass, Broadleaf Panium, Taxas

Spartan 4F suppresses many other broadleaf weeds and annual grasses. Tank mixing with an appropriate peanut herbicide partner will increase overall weed and / or grass control.



Cabbage

Rate of Application	Method of Application
0.375 lbs ai/acre	Make one ground broadcast application no later than 72 hours prior to transplanting or no later than the 2-4 leaf stage for direct seeded cabbage.
	Spartan 4F may be applied for preemergence control of most broadleaf weeds in cabbage production.
	Make uniform applications in a minimum of 10-30 gallons of water per acre.

Do not apply less than 72 hours prior to transplanting or after the 2-4 leaf stage for direct seeded cabbage.

Potatoes

Rate of Application	Method of Application
0.375 lbs ai/acre	Make one broadcast, preemergence application after planting but prior to crop emergence.
	Spartan 4F may be applied for preemergence control of most broadleaf weeds in potato production.
	Make uniform applications in a minimum of 15-40 gallons of water per acre.

Mint

Rate of Application	Method of Application
0.375 lbs ai/acre	Make one ground broadcast during the dormancy stage only.
	Spartan 4F may be applied for preemergence control of most broadleaf weeds in mint production.
	Make uniform applications in a minimum of 10-40 gailons of water per acre.

Do not apply after the mint has broken out of dormancy.

Horseradish

Rate of Application	Method of Application
0.375 lbs ai/acre	Make one broadcast, preemergence application after planting but prior to crop emergence.
	Spartan 4F may be applied for preemergence control of most broadleaf weeds in horseradish production.
	Make uniform applications in a minimum of 10-40 gallons of water per acre.

Do not apply after crop emergence

Succulent Lima Bean

Rate of Application	Method of Application
0.1875 ibs ai/acre	Make one broadcast application pre-emergence to the soil; after planting but prior to crop emergence.
	Use a minimum of ten (10) gailons of water per broadcast acre with sprayers equipped with suitable nozzles and screens no finer than 50 mesh.

Asparagus

Method of Application
Make one broadcast application at a minimum of 14 days prior to harvest.
Optimum weed control is obtained when applied to moist soil and followed with approximately one inch of irrigation water or rainfail before weeds germinates
6 - 6 6 6 6

DRY BEAN, DRY PEA

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*)(Includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); bean (*Vigna*) (Includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea moth bean, mung bean, rice bean, southern pea, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (*Pisum*) (includes field pea); pigeon pea.

Directions for use:

Apply Spartan 4F herbicide on conventional tillage or conservation tillage (reduced tillage or no-tillage) cropping systems using rates recommended in the use rate chart below for control or partial control of the following weeds:

Weeds controlled:

Kochia (ALS resistant and susceptable biotypes) Pigweed species Waterhemp species Eastern Black Nightshade Common Lambsquarter Russian Thistle Palmer Amaranth Tumble Pigweed Witchgrass

Weeds partially controlled:

Wild Buckwheat Cocklebur Wild Mustard and other Mustard species Foxtail species Hairy Nightshade Fall Panicum Velvetleaf Common Ragweed Biennial Wornwood Crabgrass Stinkgrass

	COARSE*	MEDIUM	FINE
	(sand, loamy sand, sandy loam)	(loam, sitt loam, silt)	(silty day loam, sandy day loam, silty day, sandy day, day loam, day)
ORGANIC MATTER	ibs ai/a	lbs ai/a	libs ai/a
Less then 1.5%	0.094-0.125	0.125-0.141	0.125-0.141
1.5-3.0%	0.125-0.141	0.141 -0.188	0.141 - 0.188
Greater than 3.0%	0.141-0.188	0.188 - 0.25	0.188 - 0.25

*Do not use on coarse soils classified as sand which have less than 1% organic matter.

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5 percent) and pH of 7.8 or higher, or on highly eroded (as defined by National Resources Conservation Service) areas, particularly exposed calcareous out croppings, within fields of medium or fine-textured soils. Risk of adverse crop response may be lessened by reducing Spartan use rate on those areas.

Inadequate furrow closure will result in exposure to the herbicide, and may result in an undesirable crop response.

Poor growing conditions such as excessive moisture, cool temperatures, and soil compaction or the presence of various pathogens may impact seeding vigor. Under these conditions the active ingredient in Spartan 4F herbicide, like other soil applied herbicides, can injure dry bean/dry pea. However, these early injury symptoms most often are short lived and do not result in yield reduction.

Application guidelines

Preemerge application (PRE) on the soil surface is the recommended application method. However, if incorporating Spartan 4F in the soil (PPI), use light, thorough incorporation with the tillage implement set no deeper than four inches.

Spartan 4F can be applied in the fall preceeding the use season prior to soil freeze up, or anytime prior to planting, but no later than 3 days after planting. Higher rates in the soil type range may be needed for fall application programs. Early preplant application 30-45 days prior to planting may need a burndown herbicide tank mix companion product for control of emerged vegetation. It is recommended that fall and early preplant (EPP) application be made on the soil surface. Avoid soil disturbance at planting if a Spartan 4F application was made on the soil surface prior to planting. If the planting implement does result in considerable soil disturbance, apply Spartan 4F on the soil surface immediately after planting.

Spartan 4F can be used in combination with all other labeled herbicides. Follow application guidelines for other labeled herbicides. When mixing Spartan 4F with Roundup, use full labeled rates of Roundup.

When mixing Spartan 4F, always mix Spartan in the tank first before other adjuvants or herbicides. Allow 10 minutes of agitation before adding other products to the spray tank.

FIELD CORN (GRAIN, SILAGE, OR SEED), POPCORN PREPLANT SURFACE, PREEMERGENCE, PREPLANT INCORPORATED, NO-TILL AND MINIMUM TILL

Weeds Controlled:

BROADLEAVES Amaranth, Palmer Amaranth, spiny Anoda, spurred Beggarweed, Florida Carpetweed Cocklebur. common* Copperieaf, Hophombeam Croton, tropic Daisy, American Dayflower, common Galinsoga, hairy Groundcherry, clammy (seedling) Groundcherry, cutleaf Jimsonweed Kochia adysthumb Lambsquarters, common Mexicanweed Momingglory: Entireleaf tvyleaf Paimleaf Pitted* Purple Red Smallflower Tall Mustard, wild* Nightshade, eastern black Nightshade, hairy Nightshade, silverleaf Pigweed: Redroot Smooth Tumble Poorice Purslane, common Pusley, Florida Senna, coffée* Sida, prickly (Teaweed) Smartweed, Pennsylvania Smelimelion¹ Spurge, spotted Starbur, bristly Velvetleaf* Waterhemp, common Waterhemp, tall

SEDGES Nutsedge, purple Nutsedge, yellow Sedge, annual

GRASSES Barnyardgrass* Broadleaf signalgrass Crabgrass, large Crabgrass, smooth* Crabgrass, southern* Crowfootgrass* Foxtail, giant* Foxtail, green* Foxtail, green* Foxtail, pristy* Goosegrass Johnsongrass, seedling* Orchardgrass Panicum, fall Panicum, Texas*

	COARSE*	MEDIUM	FINE
	(sand, loarny sand, sandy loarn)	(loam, siit loam, siit)	(silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay)
ORGANIC MATTER	los ai/a	ibs ai/a	ibs ai/a
Less than 1.0%	0.094-0.125	0.125-0.141	0.125-0.141
1.0-3.0%	0.125-0.141	0.141 -0.188	0.141 - 0.188
Greater than 3.0%	0.141-0.188	0.188 - 0.25	0.188 - 0.25

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n de See

METHOD OF APPLICATION

Apply Spartan 4F herbicide on conventional tillage or conservation tillage (reduced tillage or no-tillage) cropping systems using rates recommended in the Com Rate Chart above. Spartan 4F can be used alone or in tank mixture with other herbicides to control susceptible broadleaf, sedge, and grass species in corn.

Spartan 4F may be applied in the fail or spring as a pre-plant surface application. It may also be applied in the spring as a preplant incorporated or preemergence application in water or fluid fertilizers. Higher rates in the soil type range may be needed for fail application or early preplant (greater than 15 days before planting) programs. Early preplant or preemergence applications may need a burndown herbicide tank mix companion product for control of emerged vegetation. It is recommended that fail and early preplant (EPP) application be made to the soil surface. When planting into soil treated preplant with Spartan 4F, try to minimize soil disturbance to maintain the herbicide barrier In the soil and achieve maximum weed control.

To increase the spectrum of weeds controlled, Spartan 4F may be tank mixed with other soll-applied herbicides for corn such as Atrazine, Bicep II Magnum, Duai II Magnum, Harness, and Harness Xtra.

Spartan 4F does provide burndown of selected emerged weeds in a conservation tillage systems. Through coverage is essential to control susceptible weeds. To broaden the spectrum of weeds controlled in a burndown scenario, Spartan 4F may be tankmixed with other herbicides such as 2,4-D, Roundup, or Gramoxone.

Spartan 4F may be applied more than once to the same crop in split or sequential applications during the season.

When Spartan 4F is applied in a tank mix with other herbicide(s), follow applicable use instructions including rates, precautions, replant, and rotational crop restrictions of each product used in the tank mixture.

PRECAUTIONS:

Poor agronomic practices, unfavorable pH soils, diseases, cold weather, excessive moisture, drought, or other conditions unfavorable to normai plant growth may adversely effect the growth of soybeans. Weakened plants may be more susceptible to herbicide injury particularly under poor drainage, compacted conditions, or when the soil is saturated for long periods of time.

The total amount of sulfentrazone from all applications to the same crop must not total more than 0.375 ib all per acre per season.

Do not apply Spartan 4F to soils classified as sand with less than 1% organic matter.

² Partial control or suppression.

WEEDS CONTROLLED:

Preemergence:

When used as directed, a soil applied treatment of Spartan 4F will provide control or suppression of the following weeds:

BROADLEAVES

Amaranth, Palmer Amaranth, spiny Anoda, sourred Beggarweed, Florida Carpetweed Cocklabur, common* Copperieat, Hophombeam Croton, tropic Daisy, American Dayflower, common Galinsoga, hairy Groundcherry, clammy Groundcherry, cutiesf **Jimsonweed** Kochia Ladysthumb Lambaquarters, common Mexicanweed Morninggiory: Entireleat Ivvleaf Paimleat Pitted Purole

SEDGES

Nutsedge, purple Nutsedge, yellow Sedge, annual GRASSES

Broadleaf signalgrass Crabgrass, large Crabgrass, smooth

Red Smalflower Tal Mustard, wild Nightshade, eastern black Nightshade, hairy Nightshade, silverleat Pictured: Redmod Smooth Tumbia Poorice Pursiana, common Pusley, Fiorida Senna, coffee Sida, prickly (Teaweed) Smartweed, Pennsylvania Smallmallon Spurge, spotted Starbur, bristly Velvetleaf Waterhernp, common Waterhernp, tall

Morningglory: (continued)

Goosegrass Orchardgrass Panicum, fall

* Indicates suppression or partial control only.

Sperian 4F suppresses many other annual grasses. Tank mixing with an herbicide partner such as Command 3ME or mechanical cultivation will be required for grass management.

REPLANTING INSTRUCTIONS

Tobacco may be replanted into a field that has been treated with Spartan 4F alone, or Spartan 4F tank mixed with Command. Do not retreat fields with a second application of Spartan 4F. When a field has been treated with another labeled product, consult the product label for specific replanting instructions. If the field must be reworked prior to replanting, do not disturb soil to a depth of more than 2 inches, or weed control may be reduced or temporary crop injury may occur.

ROTATIONAL GUIDELINES

This table shows the minimum interval in months from the time of Spartan 4F application until Spartan 4F treated soil can be replanted to the crops listed. When Spartan 4F is tank mixed with another herbicide, refer to the partner tabel for recropping instructions, following the directions that are most restrictive.

ROTATIONAL CROP GUIDELINE

	Recropping Interval
Soybeans Wheat, Barley, Rye, Oats, Triticale Rice	4
Sorghum Other Cereal Grains (Buckwheat; I pearl; Millet, proso; Teosinta; Wild	10 Millet,
Sweet Potatoss	
Sweet Com Canola Sugar Beets	24 ¹ 24 ¹
All other crops	18'

¹ Crops that have rotational intervals greater than 12 months after a Spartan 4F application are the result of crop injury concerns.

PRECAUTIONS

Do not apply Spartan 4F to soils classified as sands containing less than 1% organic matter.

Do not use Spartan 4F in Tobacco seeding bads or greenhouses.

Apply Spartan 4F as previously noted in the Application Section on page 3. Do not apply Spartan 4F post-transplant or unacceptable injury may occur. Do not perform tillage practices that concentrate Spartan 4F into the bed or crop injury may occur.

Poor agronomic practices, unfevorable pH soils, diseases, cold weather, excessive moleture, drought or other conditions unfevorable to normal plant growth may adversely affect the growth of tobacco transplants. Weakened transplants may be more susceptible to herbicide injury particularly under poor drainage or compacted conditions or when the soil is saturated for long periods of time. Contact your State Agriculturat Extension Service Specialist for consultation as to the agronomic recommendations suited for your tobacco varieties and local conditions.

Temporary stunting of tobacco may occur if transplants are set too aballow, or if heavy reinfall occurs immediately following transplanting.

Spleshing of treated soil onto tobacco leaves may cause some localized, inconsequential burning. Use sound transplanting practices that insure treated soil will not wash or crust over tobacco plants.

Thoroughly clean Spartan 4F from application equipment immediately after use and prior to spraying crops other than tobacco. Failure to remove even small amounts of Spartan 4F from application equipment may result in injury to subsequent sprayed crops, including tobacco.



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WEED SCIENTIFIC NAMES

BROADLEAVES

	Source in the second
Amaranth, Palmer	. (Amaranthus pelmeri)
Amaranth, spiny	
Anoda, spurred	
Beggarweed, Florida	
Carpetweed	
Cocklebur, common*	
Copperleaf,Hophombeam	
Croton, tropic	. (Croton glandulosus)
Daisy, American	. (Eclipta alba)
Dayflower, common.	. (Commertina communis)
Galinsoga, hairy	
Groundcherry, clammy	
Groundcherry, cutleaf	
Jimsonweed	
Kochia	
Ladysthumb	
Lambequarters, common	
Mexicanweed	. (Caperonia castanaefolia) 🔤
Morninggtory:	
Entireleaf	. (Ipomoes integriuscula)
lvvleaf	
Palmieaf	
Pitted*	
Purple	
Red	
Smaliflower	
Tali	
Mustard, wild	. (Sinapis arvensis)
Nightshade:	
Eastern Black	. (Solanum ptvcanthum)
Ηαίηγ	
Silverleaf	
Pigweed:	. (Contraint Clobby a choosing
Redroot	(Amaranthus optionEqual)
Smooth	
Tumble	
Poorjoe	
Purslane, common	
Pusley, Florida	. (Richardia scabra)
Senna, coffee	. (Cassia occidentalis)
Sida, prickly (Teaweed)	. (Sida spinosa)
Smartweed, Pennsylvania	
Smellmellon.	
Spurge, spotted	
Starbur, bristly	(Acade according to the second s
Velvetleaf	
Waterhemp, common	. (Ameranthus rudis)
Waterhemp, Tall	. (Amaranthus tuberculatos)
SEDGES	
Nutsedge, purple,	. (Cyperus rotundus)
Nutsedge, yellow	. (Cyperus esculentus)
Sedge, annual	
GRASSES	

SCIENTIFIC NAMES

Broadleaf signalgrass	(Brachiaria platyphylla)
Crabgrass, large	(Digitaria sanguinalis)
Crabgrass, smooth	(Digitaria ischaemum)
Goosegrass	(Eleusine Indica)
Orchardgrass	(Dactylis giomerata)
Panicum, fall	(Panicum dichotom/florum)
	•

Indicates suppression or partial control only.

Dealers Should Sell in Original Packages Only. Conditions of Sale and Limitation of Warranty and Liability:

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